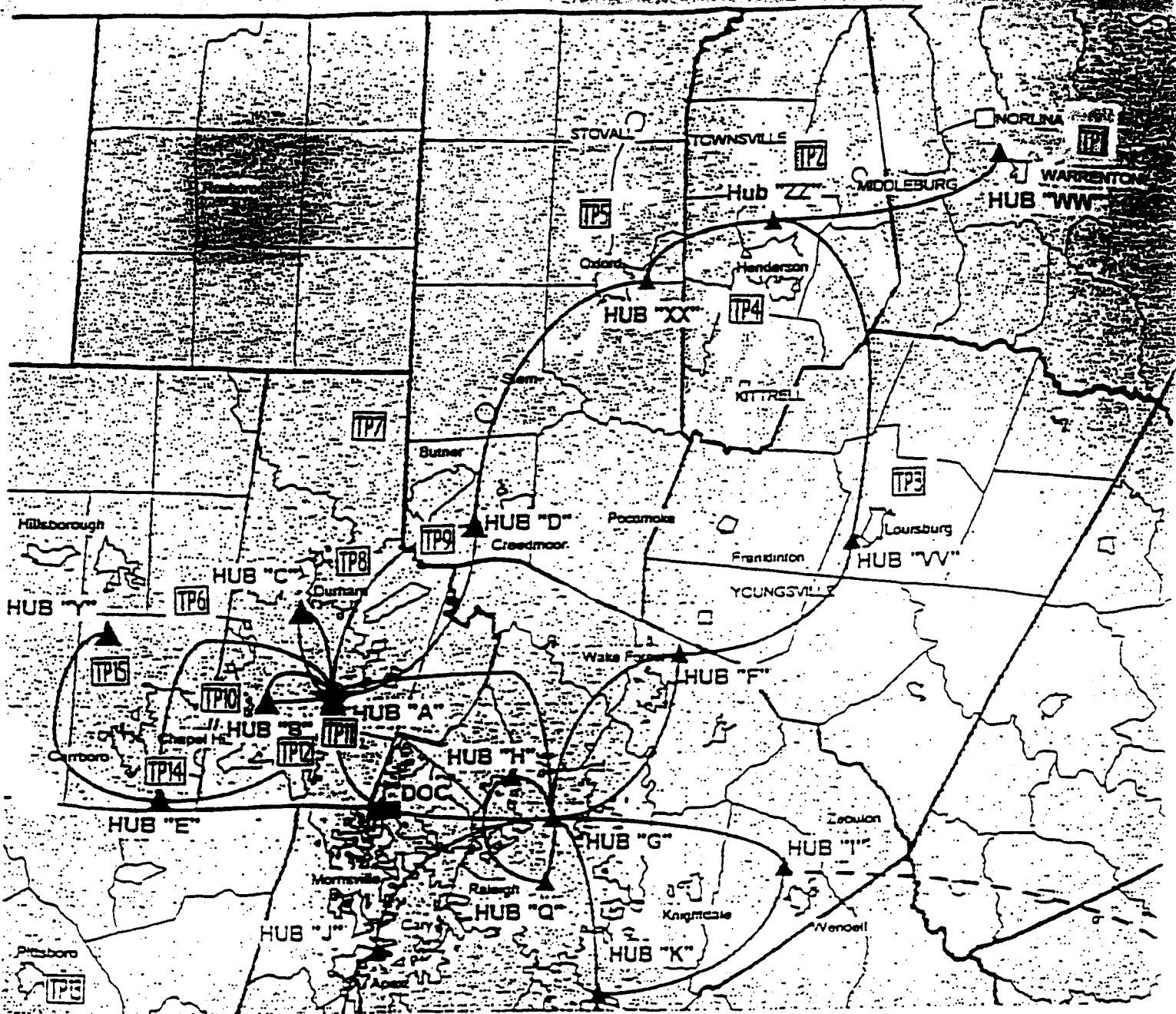


## Test Points

### List of System Test Points Used

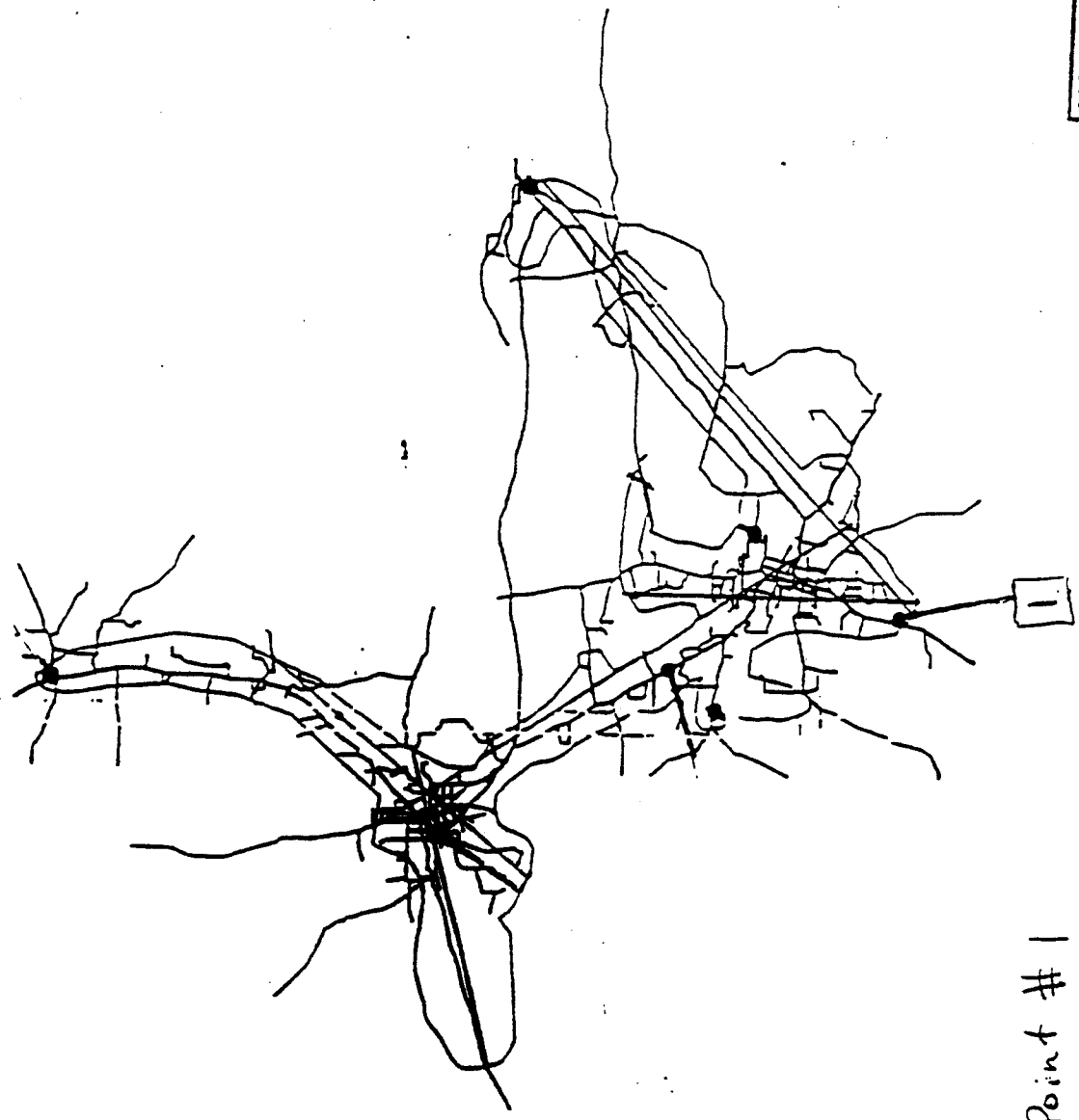
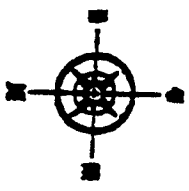
Test Point #	Location	Pole #	Tap Value	Nearest Amp. #	Node Name	Cascade Length (TB/LE)
0.1	Master HEADEND Durham	N/A	N/A	N/A	N/A	0/0
0.2	HUB E Chapel Hill	N/A	N/A	N/A	N/A	0/0
0.3	HUB Y Carrboro	N/A	N/A	N/A	N/A	0/0
0.4	HUB VV Lewisburg	N/A	N/A	N/A	N/A	0/0
0.5	HUB WW Warrenton	N/A	N/A	N/A	N/A	0/0
0.6	HUB XX Oxford	N/A	N/A	N/A	N/A	0/0
0.7	HUB ZZ Henderson	N/A	N/A	N/A	N/A	0/0
0.8	HUB B Archdale SW Durham	N/A	N/A	N/A	N/A	0/0
0.9	HUB C Stadium Dr, N Durham	N/A	N/A	N/A	N/A	0/0
0.10	HUB D Creedmore	N/A	N/A	N/A	N/A	0/0
0.11	HUB	N/A	N/A	N/A	N/A	0/0
1.	South Main St.	42	11/4	A04	W1099	4/0
2.	Hibernia Rd	ped	23/4	A03C	H2060	3/3
3.	Hwy 561	09	11/2	A02	VV116	2/0
4.	Southern Mill Rd	83	20/2	A04	H288	3/0
5.	Pocket St	ped	11/4	A03C	XX030	3/3
6.	110 Hayworth	N/A	17/4	A036	CE019	4/0
7.	Hoover Rd. Pole in front of Cabinet Shop	N/A	17/4	A03	CY091	3/0
8.	Lavender	N/A	17/4	AC6B	DC157	3/2
9.	1538 Ravenwood	ped	23/4	AC0A	DD262	1/0
10.	Dixon Rd	ped	20/2	A06	DA54	1/3
11.	Arborfield Dr	ped	17/2	B02	DA08	2/0
12.	800 Oak Grove Pkwy	ped	11/2	A004	DA226	2/2
13.	10014 Adirondack	ped	11/4	A01B	CE083	4/0
14.	116 W Barbee Chapel	ped	11/4	A02	CB133	1/0
15.	New Hope	N/A	17/4	A03A	CE099	2/0
16.						
17.						
18.						
19.						
20.						



Test Points  
(Locations)

List of System Test Points Used

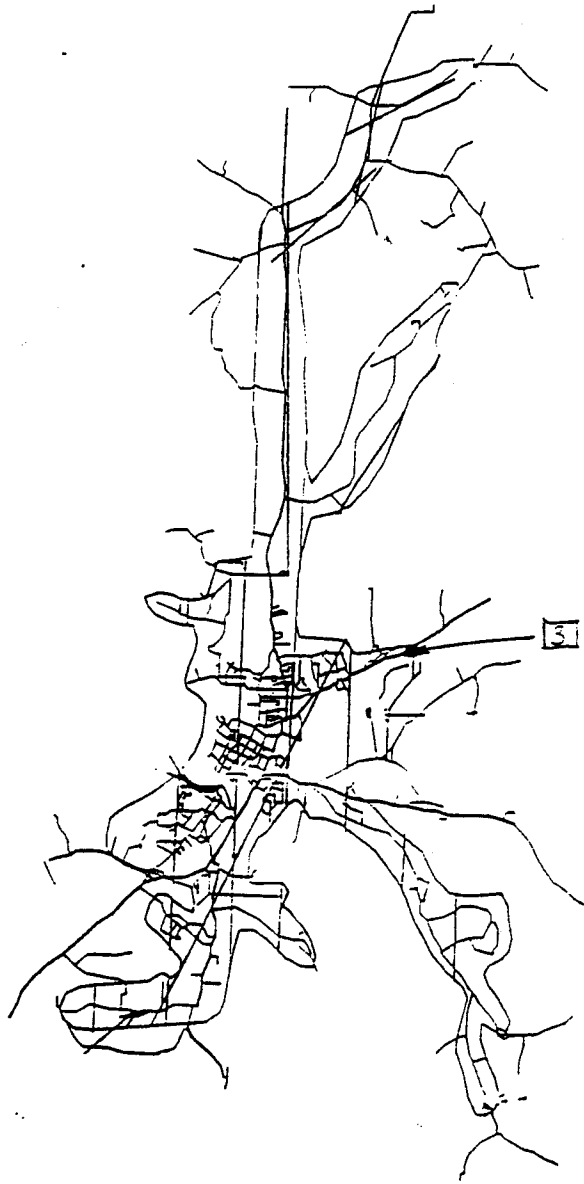
Test Point #	Location	Pole #	Tap Value	Nearest Amp. #	Cascade Node Name	Length (TB/LE)
0.1	HEADEND	N/A	N/A	N/A	N/A	0/0
0.2	HUB WW	N/A	N/A	N/A	N/A	0/0
0.3	HUB HZ	N/A	N/A	N/A	N/A	0/0
0.4	HUB VU	N/A	N/A	N/A	N/A	0/0
0.5	HUB HZ	N/A	N/A	N/A	N/A	0/0
0.6	HUB XX	N/A	N/A	N/A	N/A	0/0
0.7	HUB CY	N/A	N/A	N/A	N/A	0/0
0.8	HUB CY	N/A	N/A	N/A	N/A	0/0
0.9	HUB DC	N/A	N/A	N/A	N/A	0/0
0.10	HUB DD	N/A	N/A	N/A	N/A	0/0



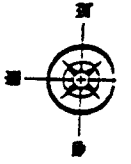
Test Point # 1  
South main St.

LEGEND	
	15.00dB to 12.01dB
	12.00dB to 9.01dB
	9.00dB to 6.01dB
	6.00dB to 3.01dB
	3.00dB to 0.01dB
	0.00dB to -2.99dB
	-3.00dB to -5.99dB
	-6.00dB to -20.99dB

Warrenton, NC . . . TWC  
 100% Samples below Ref.  
 12.2dB within Spec.  
 Test Date: 01-10-02  
 Job # 82-089  
**FLIGHT TRAC**

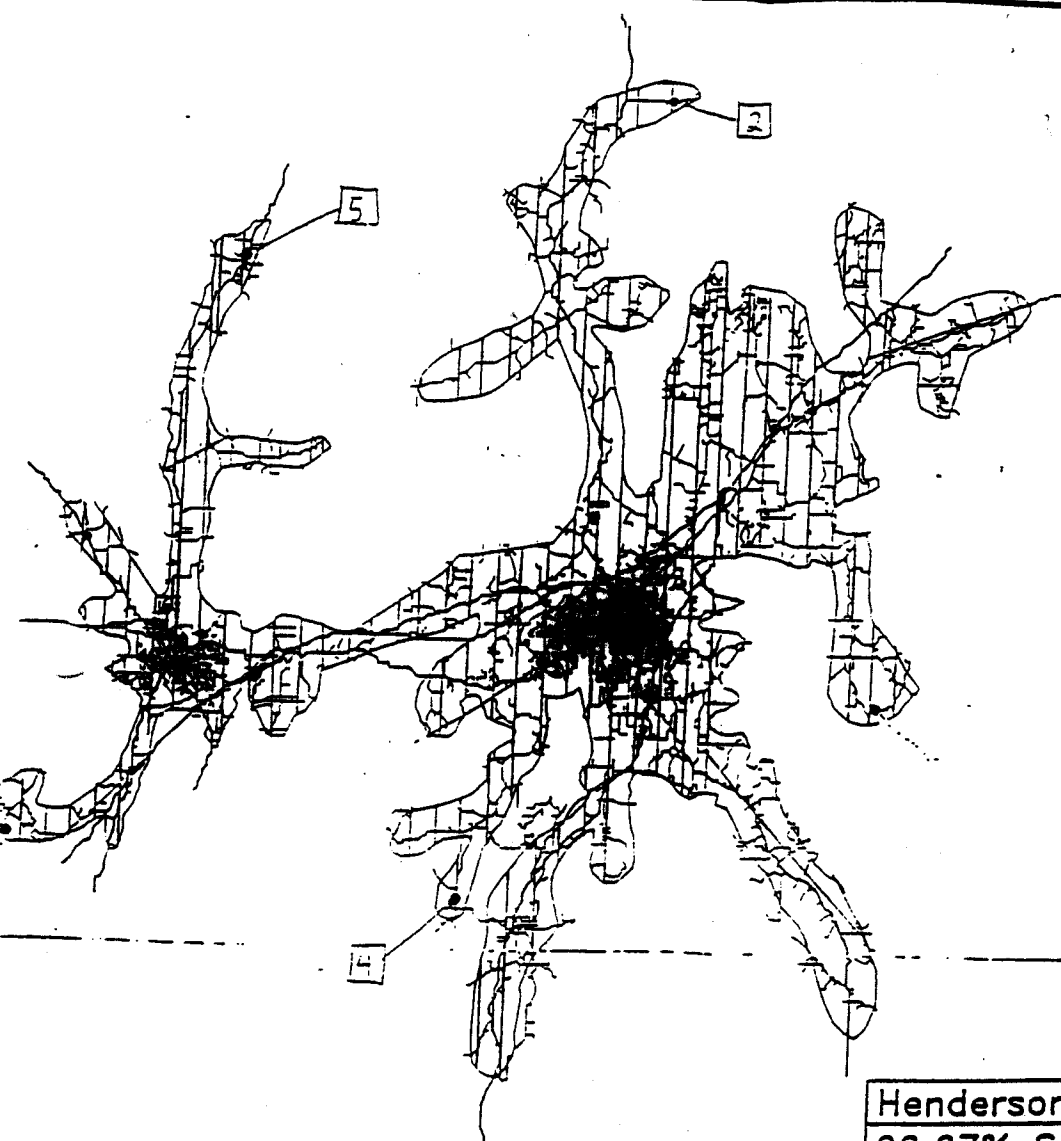
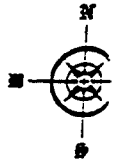


Test Point #3  
Hwy 561



LEGEND	
█	15.00dB to 12.01dB
█	12.00dB to 9.01dB
█	9.00dB to 6.01dB
█	6.00dB to 3.01dB
█	3.00dB to 0.01dB
█	0.00dB to -2.99dB
█	-3.00dB to -5.99dB
█	-6.00dB to -20.99dB

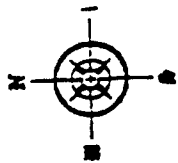
Louisburg, NC	TWC
100% Samples below Ref.	
12.2dB within Spec.	
Test Date: 01-10-02	
Job # 82-090	
<b>FLIGHT TRAC</b>	



Test Point #  
2 Hibernia Rd  
4 Southern Mill  
5 Puckett St.

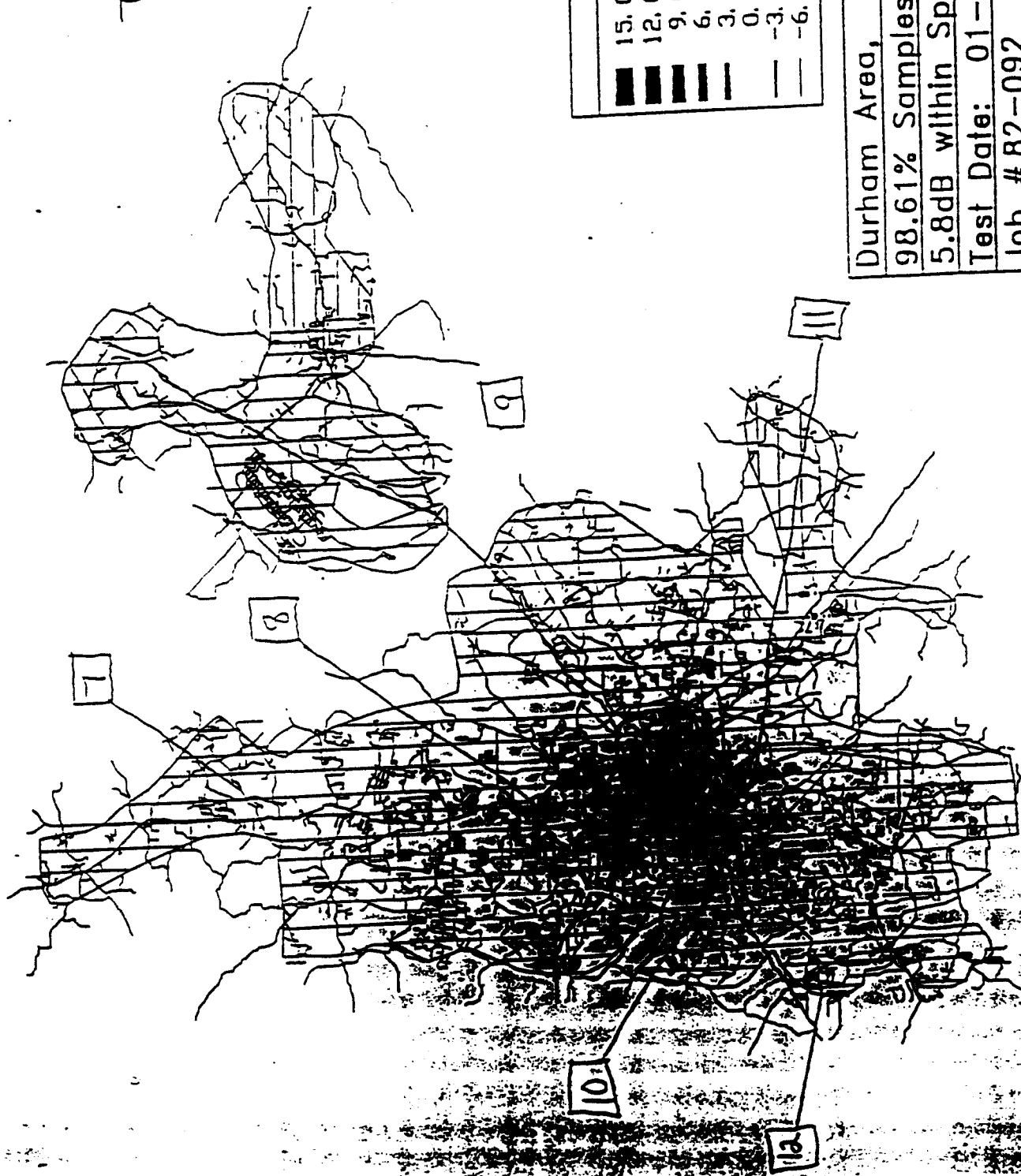
LEGEND	
■	15.00dB to 12.01dB
■	12.00dB to 9.01dB
■	9.00dB to 6.01dB
■	6.00dB to 3.01dB
■	3.00dB to 0.01dB
■	0.00dB to -2.99dB
—	-3.00dB to -5.99dB
—	-6.00dB to -20.99dB

Henderson, NC	TWC
99.97% Samples below Ref.	
9.0dB within Spec.	
Test Date: 01-10-02	
Job # 82-088	
<b>FLIGHT TRAC</b> INC	



Testpoint #

- 7 Hoover Rd.
- 8 Lavender
- 9 Ravenwood
- 10 Dixon Rd.
- 11 Ankerfield



LEGEND	
█	15.00dB to 12.01dB
█	12.00dB to 9.01dB
█	9.00dB to 6.01dB
█	6.00dB to 3.01dB
█	3.00dB to 0.01dB
█	0.00dB to -2.99dB
█	-3.00dB to -5.99dB
█	-6.00dB to -20.99dB

Durham Area, NC TWC

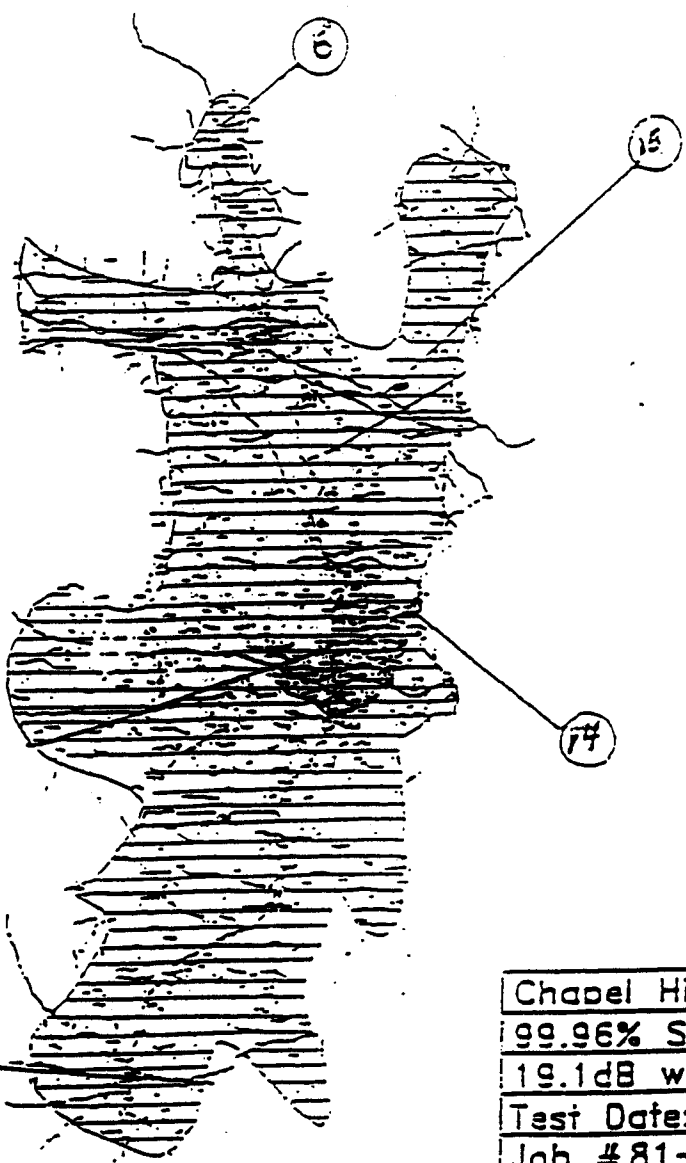
98.61% Samples below Ref.

5.8dB within Spec.

Test Date: 01-12-02

Job # 82-092

TRAC



Test Point #  
 6 Hayworth  
 13 Adirondack  
 14 Barbee Ch.  
 15 New Hope

LEGEND		
	15.00dB to	12.01dB
	12.00dB to	9.01dB
	9.00dB to	6.01dB
	6.00dB to	3.01dB
	3.00dB to	0.01dB
	0.00dB to	-3.99dB
	-3.00dB to	-5.99dB
	-6.00dB to	-20.99dB

13

Chapel Hill, NC	TWC
99.96% Samples below Ref.	
19.1dB within Spec.	
Test Date: 02-13-01	
Job #81-133	
<b>FLIGHT TRAC</b>	
<b>INC</b>	

## **Channel Plan(s)**

Please place a Channel Plan here listing each and every “channel” on the system. Include both analog video channels, control channels such as-sweepor QPSK carriers, and FM carriers regardless of their operating level. For multi channel digital carriers (QAM Carriers) just indicate their frequency and that they carrier multi channel digital., There is no need to list each digital service. Also include upstream channel assignments for QPSK, cable modems and such.

For systems with more then one Channel Plan, please include a channel plans for each different area. As an example, there are typically different PEG channels for different Franchise Areas. When there are different Channel Plans indicate, generally, where each is used.

Indicate any carriers operating above 750 MHz or between 42 and 50 MHz. (Don’t forget to do frequency measurements on any of these channels or channel components in the aeronautical radiocommunication bans 118-137,225-328.6 and 335.4-400 MHz with an average power level equal to our greater then  $10^{-4}$  watts in a 25 kHz bandwidth in any 160 microsecond period, i.e, any video carriers in these frequency bands.)

A good starting point for Channel Lineups is:

<http://www.timewarnercable.com/Customerservice/CLU/TWCCLUs.ashx>



**Durham, Channel Plan**

Channel	Service	Channel	Service	Channel	Service
98	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WNCN-TV (NBC)	50	Fox Sports	79	Digital QAM
3	WRAL-TV (CBS)	51	Golf Channel	80	Digital QAM
4	EDUCATIONAL PROGRAM	52	BET	81	Digital QAM
5	WRAY-TV (IND)	53	MTV	82	Digital QAM
6	WTVD-TV (ABC)	54	TV Land	83	Digital QAM
7	HOME BUYERSCCHN	55	Oxygen	84	Digital QAM
8	COMMUNITY PROG	56	History Channel	85	Digital QAM
9	WUNC-TV (PBS)	57	Disney	86	Digital QAM
10	WLFL-TV (WB)	58	Fox News	87	Digital QAM
11	WUVC-TV	59	C-Span	88	Digital QAM
12	WRDC-TV (UPN)	60	C-SPAN -2	89	Digital QAM
13	WRAZ-TV (FOX)	61	Women's Entertainment	90	Digital QAM
14	NEWS 14	62	E!	91	Digital QAM
15	Home Shoping Net	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17	Unmodulated Carrier	65	Outdoor Life Network	94	Digital QAM
18	C-SPAN	66	ESPN Classic		
19	WRAY -N (IND)	67	Turner Classic Movies		
20	UNMOOULATED CARRIER	68	Fit TV	100	Digital QAM
21	WGN	69	CMT	101	Digital QAM
22	WRPX-TV(PAX)	70	National Geographic	102	Digital QAM
23		71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network	107	Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Canier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

**Upstream Carriers**

25 MHz QPSK Data Carrier  
 33 MHz Digital QAM

**Other**

52.5 MHz Sweep Signal

## CHAPEL HILL, Channel Plan

Channel	Service	Channel	Service	Channel	Service
98	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WNCN-TV (NBC)	50	Fox Sports	79	Digital QAM
3	WRAL-TV (CBS)	51	Golf Channel	80	Digital QAM
4	EDUCATIONAL PROGRAM	52	BET	81	Digital QAM
5	WRAY-TV (IND)	53	MTV	82	Digital QAM
6	WVO-TV (ABC)	54	TV Land	83	Digital QAM
7	HOME BWERSCCHN	55	Oxygen	84	Digital QAM
8	COMMUNITY PROG	56	History Channel	85	Digital QAM
9	WUNC-TV (PBS)	57	Disney	86	Digital QAM
10	WLF L-TV (WB)	58	Fox News	87	Digital QAM
11	WUVC-TV	59	C-Span	88	Digital QAM
12	WRDC-TV (UPN)	60	C-SPAN -2	89	Digital QAM
13	WRAZ-TV (FOX)	61	Women's Entertainment	90	Digital QAM
14	NEWS 14	62	E!	91	Digital QAM
15	Home Shopping Net	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17	Unmodulated Carrier	65	Outdoor Life Network	94	Digital QAM
18	GOV ACCESS /C-SPAN2	66	ESPN Classic		
19	BET	67	Turner Classic Movies		
20	UNMODULATED CARRIER	68	Fit TV	100	Digital QAM
21	WGN	69	CMT	101	Digital QAM
22	WRPX-TV (PAX)	70	National Geographic	102	Digital QAM
23		71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network	107	Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Carrier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

### Upstream Carriers

25 MHz	QPSK Data Carrier
33 MHz	Digital QAM

### Other

52.5 MHz	Sweep Signal
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## CARRBORO, Channel Plan

Channel	Service	Channel	Service	Channel	Service
98	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WFMY-TV (CBS)	50	Fox Sports	79	Digital QAM
3	WRAL-TV (CBS)	51	Golf Channel	80	Digital QAM
4		52	BET	81	Digital QAM
5	WGPH -N (ABC)	53	MTV	82	Digital QAM
6	WUNC-TV (PBS)	54	TV Land	83	Digital QAM
7	WRPX -N (PAX)	55	Oxygen	84	Digital QAM
8	WUVC -TV	56	History Channel	85	Digital QAM
9	WUNC-TV (PBS)	57	Disney	86	Digital QAM
10	WRDC-TV (UPN)	58	Fox News	87	Digital QAM
11	WRMZ-TV (FOX)	59	C-Span	88	Digital QAM
12	WLFL-TV (WB)	60	C-SPAN -2	89	Digital QAM
13	WTVD-TV (ABC)	61	Women's Entertainment	90	Digital QAM
14	NEWS 14	62	E!	91	Digital QAM
15	Home Shopping Net	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17	Unmodulated Carrier	65	Outdoor Life Network	94	Digital QAM
18	GOV ACCESS /C-SPAN2	66	ESPN Classic		
19	WRAY-TV (IND)	67	Turner Classic Movies		
20		68	Fit TV	100	Digital QAM
21	WGN	69	CMT	101	Digital QAM
22	BET	70	National Geographic	102	Digital QAM
23		71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network 107		Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Carrier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

<b>Upstream Carriers</b>			
25 MHz	QPSK	Data	Carrier
33 MHz	Digital	QAM	
<b>Other</b>			
52.5 MHz	Sweep	Signal	

Henderson / Oxford / Warren / Louisbu

Channel	Service	Channel	Service	Channel	Service
A-1	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WRPX-TV (PAX)	50	FoxSportsNET SOUTH	79	Digital QAM
3	WRDC-TV (UPN)	51	Golf Channel	80	Digital QAM
4	WUNC-TV (PBS)	52	BET	81	Digital QAM
5	WRAL-TV (CBS)	53	MTV	82	Digital QAM
6	TBS	54	TV Land	83	Digital QAM
7	WAXN-TV LP	55	Oxygen	84	Digital QAM
8	WNCN-TV (NBC)	56	History Channel	85	Digital QAM
9	WRAY-TV (IND)	57	Disney	86	Digital QAM
10	WLFL-TV (WB)	58	Fox News	87	Digital QAM
11	Govt. Access	59	C-Span	88	Digital QAM
12	WUVC-TV (UNIVISION)	60	Fit TV	89	Digital QAM
13	WRAZ-TV (FOX)	61	Women's Entertainment	90	Digital QAM
14	NEWS -14	62	E!	91	Digital QAM
15	HOME SHOPPING	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17		65	Outdoor Life Network	94	Digital QAM
18	Educational Access	66	ESPN Classic		
19	HOME BUYERS	67	Turner Classic Movies		
20		68	TBN	100	Digital QAM
21	C-SPAN -2	69	CMT	101	Digital QAM
22	COMMUNITY PROGRAMMING	70	National Geographic	102	Digital QAM
23	WGN	71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network	107	Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Carrier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

**Upstream Carriers**  
 25 MHz QPSK Data Carrier  
 33 MHz Digital QAM

**Other**  
 52.5 MHz Sweep Signal

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable.  
 Test Point Location: Durham  
 Date of Test: 7/28/05 Time: 10:00 AM  
 Tech(s) Performing Test: Phil Binaco

Highest Band Pass: 765 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>Agilent 8591C</u>	<u>3829A02949</u>	<u>May, 10, 05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.505 MHz-4.495 MHz)
2	55.2500	<u>55.2499</u>	55.2550	55.2450	<u>4.49</u>
3	61.2500	<u>61.2499</u>	61.2550	61.2450	<u>4.49</u>
4	67.2500	<u>67.2498</u>	67.2550	67.2450	<u>4.50</u>
	73.0000		N/A	N/A	N/A
<i>off set</i> * 5	77.2500	<u>77.2385</u>	77.2550	77.2450	<u>4.50</u>
6	83.2500	<u>83.2498</u>	83.2550	83.2450	<u>4.49</u>
6+1	89.2500	_____	89.2550	89.2450	_____
6+2	95.2500	_____	95.2550	95.2450	_____
6+3	101.2500	_____	101.2550	101.2450	_____
A-5	91.2500	_____	91.2550	91.2450	_____
A-4	97.2500	_____	97.2550	97.2450	_____
A-3	103.2500	_____	103.2550	103.2450	_____
A-2	109.2750	<u>109.270</u>	109.2800	109.2700	<u>4.50</u>
A-1	115.2750	_____	115.2800	115.2700	_____

\* - Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable  
 Test Point Location: Chapel Hill Line up  
 Date of Test: 7/28/05 Time: 11.00 AM  
 Tech(s) Performing Test: Phil Binaco

Highest Band Pa. 765 mHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>Agilent 8591C</u>	<u>3829A02949</u>	<u>05/10/05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	_____	55.2550	55.2450	_____
3	61.2500	_____	61.2550	61.2450	_____
4	67.2500	<u>67.249</u>	67.2550	67.2450	<u>4.50</u>
	73.0000	_____	N/A	N/A	N/A
5	77.2500	_____	77.2550	77.2450	_____
6	83.2500	_____	83.2550	83.2450	_____
6+1	89.2500	_____	89.2550	89.2450	_____
6+2	95.2500	_____	95.2550	95.2450	_____
6+3	101.2500	_____	101.2550	101.2450	_____
A-5	91.2500	_____	91.2550	91.2450	_____
A-4	97.2500	_____	97.2550	97.2450	_____
A-3	103.2500	_____	103.2550	103.2450	_____
A-2	109.2750	<u>109.275</u>	109.2800	109.2700	<u>4.50</u>
A-1	115.2750	_____	115.2800	115.2700	_____

\* - Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: Time Warner Cable

Test Point Location: Chapel Hill Lineup

Test Point Number: 0.1

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed *	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
14	121.2625		121.2675	121.2575	
15	127.2625		127.2675	127.2575	
16	133.2625		133.2675	133.2575	
17	139.2500		139.2550	139.2450	
18	145.2500	145.25	145.2550	145.2450	4.50
19	151.2500		151.2550	151.2450	
20	157.2500		157.2550	157.2450	
21	163.2500		163.2550	163.2450	
22	169.2500		169.2550	169.2450	
7	175.2500		175.2550	175.2450	
8	181.2500	181.249	181.2550	181.2450	4.495
9	187.2500		187.2550	187.2450	
10	193.2500		193.2550	193.2450	
11	199.2500		199.2550	199.2450	
12	205.2500		205.2550	204.2450	
13	211.2500		211.2550	211.2450	
23	217.2500		217.2550	217.2450	
24	223.2500		223.2550	223.2450	
25	229.2625		229.2675	229.2575	
26	235.2625		235.2675	235.2575	
27	241.2625		241.2675	241.2575	
28	247.2625		247.2675	247.2575	
29	253.2625		253.2675	253.2575	
30	259.2625		259.2675	259.2575	
31	265.2625		265.2675	265.2575	
32	271.2625		271.2675	271.2575	
33	277.2625		277.2675	277.2575	
34	283.2625		283.2675	283.2575	
35	289.2625		289.2675	289.2575	
36	295.2625		295.2675	295.2575	
37	301.2625		301.2675	301.2575	
38	307.2625		307.2675	307.2575	
39	313.2625		313.2675	313.2575	
40	319.2625		319.2675	319.2575	
41	325.2625		325.2675	325.2575	
42	331.2750		331.2800	331.2700	
43	337.2625		337.2675	337.2575	
44	343.2625		343.2675	343.2575	
45	349.2625		349.2675	349.2575	
46	355.2625		355.2675	355.2575	
47	361.2625		361.2675	361.2575	

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an uncompensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: Time Warner Cable

Test Point Location: Carrboro Line up

Test Point Number: 0.1

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625		367.2675	367.2575	
49	373.2625		373.2675	373.2575	
50	379.2625		379.2675	379.2575	
51	385.2625		385.2675	385.2575	
52	391.2625		391.2675	391.2575	
53	397.2625		397.2675	397.2575	
54	403.2500		403.2550	403.2450	
55	409.2500		409.2550	409.2450	
56	415.2500		415.2550	415.2450	
57	421.2500		421.2550	421.2450	
58	427.2500		427.2550	427.2450	
59	433.2500	<u>433.249</u>	433.2550	433.2450	<u>4.495</u>
60	439.2500		439.2550	439.2450	
61	445.2500		445.2550	445.2450	
62	451.2500		451.2550	451.2450	
63	457.2500		457.2550	457.2450	
64	463.2500		463.2550	463.2450	
65	469.2500		469.2550	469.2450	
66	475.2500		475.2550	475.2450	
67	481.2500		481.2550	481.2450	
68	487.2500		487.2550	487.2450	
69	493.2500		493.2550	493.2450	
70	499.2500		499.2550	499.2450	
71	505.2500		505.2550	499.2450	
72	511.2500		511.2550	499.2450	
73	517.2500		517.2550	499.2450	
74	523.2500		523.2550	499.2450	
75	529.2500		529.2550	499.2450	
76	535.2500		535.2550	499.2450	
77	541.2500		541.2550	499.2450	
78	547.2500		547.2550	499.2450	
79	553.2500		553.2550	499.2450	
80	559.2500		559.2550	499.2450	
81	565.2500		565.2550	499.2450	
82	571.2500		571.2550	499.2450	
83	577.2500		577.2550	499.2450	
84	583.2500		583.2550	499.2450	
85	589.2500		589.2550	499.2450	
86	595.2500		595.2550	499.2450	
87	601.2500		601.2550	499.2450	
116	745.2500		745.2550	745.2450	

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)



## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable  
 Test Point Location: Chapel Hill Line up  
 Date of Test: 9/28/05 Time: 11:00 AM  
 Tech(s) Performing Test: Phil B. WACO

Highest Band Pa. 765 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>Agilent 8591C</u>	<u>3829A02949</u>	<u>05/10/05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	_____	55.2550	55.2450	_____
3	61.2500	_____	61.2550	61.2450	_____
4	67.2500	<u>67.249</u>	67.2550	67.2450	<u>4.50</u>
	73.0000	_____	N/A	N/A	N/A
5	77.2500	_____	77.2550	77.2450	_____
6	83.2500	_____	83.2550	83.2450	_____
6+1	89.2500	_____	89.2550	89.2450	_____
6+2	95.2500	_____	95.2550	95.2450	_____
6+3	101.2500	_____	101.2550	101.2450	_____
A-5	91.2500	_____	91.2550	91.2450	_____
A-4	97.2500	_____	97.2550	97.2450	_____
A-3	103.2500	_____	103.2550	103.2450	_____
A-2	109.2750	<u>109.275</u>	109.2800	109.2700	<u>4.50</u>
A-1	115.2750	_____	115.2800	115.2700	_____

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

# Section 1 - Frequency Accuracy Test (Durham)

Continued

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
14	121.2625	<u>121.26</u>	121.2675	121.2575	<u>4.49</u>
15	127.2625	<u>127.26</u>	127.2675	127.2575	<u>4.49</u>
16	133.2625	<u>133.26</u>	133.2675	133.2575	<u>4.49</u>
17	139.2500	<u>139.250</u>	139.2550	139.2450	<u>4.50</u>
18	145.2500	<u>145.249</u>	145.2550	145.2450	<u>4.49</u>
19	151.2500	<u>151.249</u>	151.2550	151.2450	<u>4.50</u>
20	157.2500	<u>157.250</u>	157.2550	157.2450	<u>4.49</u>
21	163.2500	<u>163.249</u>	163.2550	163.2450	<u>4.49</u>
22	169.2500	<u>169.249</u>	169.2550	169.2450	<u>4.49</u>
7	175.2500	<u>175.249</u>	175.2550	175.2450	<u>4.50</u>
8	181.2500	<u>181.250</u>	181.2550	181.2450	<u>4.50</u>
9	187.2500	<u>187.249</u>	187.2550	187.2450	<u>4.49</u>
10	193.2500	<u>193.249</u>	193.2550	193.2450	<u>4.49</u>
* 11	199.2500	<u>199.263</u>	199.2550	199.2450	<u>4.49</u>
12	205.2500	<u>205.249</u>	205.2550	204.2450	<u>4.49</u>
13	211.2500	<u>211.249</u>	211.2550	211.2450	<u>4.49</u>
23	217.2500	—	217.2550	217.2450	—
24	223.2500	<u>223.249</u>	223.2550	223.2450	<u>4.50</u>
25	229.2625	<u>229.26</u>	229.2675	229.2575	<u>4.49</u>
26	235.2625	<u>235.26</u>	235.2675	235.2575	<u>4.50</u>
27	241.2625	<u>241.26</u>	241.2675	241.2575	<u>4.49</u>
28	247.2625	<u>247.26</u>	247.2675	247.2575	<u>4.49</u>
29	253.2625	<u>253.26</u>	253.2675	253.2575	<u>4.49</u>
30	259.2625	<u>259.26</u>	259.2675	259.2575	<u>4.49</u>
31	265.2625	<u>265.26</u>	265.2675	265.2575	<u>4.50</u>
32	271.2625	<u>271.26</u>	271.2675	271.2575	<u>4.50</u>
33	277.2625	<u>277.26</u>	277.2675	277.2575	<u>4.50</u>
34	283.2625	<u>283.26</u>	283.2675	283.2575	<u>4.49</u>
35	289.2625	<u>289.26</u>	289.2675	289.2575	<u>4.49</u>
36	295.2625	<u>295.26</u>	295.2675	295.2575	<u>4.49</u>
37	301.2625	<u>301.26</u>	301.2675	301.2575	<u>4.50</u>
38	307.2625	<u>307.26</u>	307.2675	307.2575	<u>4.49</u>
39	313.2625	<u>313.26</u>	313.2675	313.2575	<u>4.49</u>
40	319.2625	<u>319.26</u>	319.2675	319.2575	<u>4.49</u>
41	325.2625	<u>325.26</u>	325.2675	325.2575	<u>4.50</u>
42	331.2750	<u>331.27</u>	331.2800	331.2700	<u>4.50</u>
43	337.2625	<u>337.26</u>	337.2675	337.2575	<u>4.49</u>
44	343.2625	<u>343.26</u>	343.2675	343.2575	<u>4.49</u>
45	349.2625	<u>349.26</u>	349.2675	349.2575	<u>4.49</u>
46	355.2625	<u>355.26</u>	355.2675	355.2575	<u>4.50</u>
47	361.2625	<u>361.26</u>	361.2675	361.2575	<u>4.49</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test (Durham)

Continued

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625	<u>367.26</u>	367.2675	367.2575	<u>4.49</u>
49	373.2625	<u>373.26</u>	373.2675	373.2575	<u>4.50</u>
50	379.2625	<u>379.26</u>	379.2675	379.2575	<u>4.49</u>
51	385.2625	<u>385.26</u>	385.2675	385.2575	<u>4.50</u>
52	391.2625	—	391.2675	391.2575	—
53	397.2625	<u>397.26</u>	397.2675	397.2575	<u>4.50</u>
54	403.2500	<u>403.248</u>	403.2550	403.2450	<u>4.50</u>
55	409.2500	<u>409.248</u>	409.2550	409.2450	<u>4.49</u>
56	415.2500	<u>415.248</u>	415.2550	415.2450	<u>4.50</u>
57	421.2500	<u>421.250</u>	421.2550	421.2450	<u>4.49</u>
58	427.2500	<u>427.24</u>	427.2550	427.2450	<u>4.49</u>
59	433.2500	—	433.2550	433.2450	—
60	439.2500	<u>439.248</u>	439.2550	439.2450	<u>4.49</u>
61	445.2500	<u>445.248</u>	445.2550	445.2450	<u>4.49</u>
62	451.2500	<u>451.249</u>	451.2550	451.2450	<u>4.50</u>
63	457.2500	<u>457.249</u>	457.2550	457.2450	<u>4.50</u>
64	463.2500	<u>463.249</u>	463.2550	463.2450	<u>4.49</u>
65	469.2500	<u>469.248</u>	469.2550	469.2450	<u>4.49</u>
66	475.2500	<u>475.250</u>	475.2550	475.2450	<u>4.50</u>
67	481.2500	<u>481.250</u>	481.2550	481.2450	<u>4.49</u>
68	487.2500	<u>487.248</u>	487.2550	487.2450	<u>4.49</u>
69	493.2500	<u>493.249</u>	493.2550	493.2450	<u>4.49</u>
70	499.2500	<u>499.2477</u>	499.2550	499.2450	<u>4.49</u>
71	505.2500	<u>505.249</u>	505.2550	499.2450	<u>4.49</u>
72	511.2500	<u>511.249</u>	511.2550	499.2450	<u>4.49</u>
73	517.2500	<u>517.250</u>	517.2550	499.2450	<u>4.49</u>
74	523.2500	<u>523.249</u>	523.2550	499.2450	<u>4.49</u>
75	529.2500	<u>529.249</u>	529.2550	499.2450	<u>4.50</u>
76	535.2500	<u>535.250</u>	535.2550	499.2450	<u>4.50</u>
77	541.2500	<u>541.250</u>	541.2550	499.2450	<u>4.49</u>
78	547.2500	—	547.2550	499.2450	—
79	553.2500	—	553.2550	499.2450	—
80	559.2500	—	559.2550	499.2450	—
81	565.2500	—	565.2550	499.2450	—
82	571.2500	—	571.2550	499.2450	—
83	577.2500	—	577.2550	499.2450	—
84	583.2500	—	583.2550	499.2450	—
85	589.2500	—	589.2550	499.2450	—
86	595.2500	—	595.2550	499.2450	—
87	601.2500	—	601.2550	499.2450	—
116	745.2500	<u>745.25</u>	745.2550	745.2450	<u>4.49</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

# Section 1 - Frequency Accuracy Test

## I-Net or other "Special" Signals

System Name: DURHAM  
 Test Point Location: CREEDMORE HUB D.

Test Point Number: 0.4

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
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Location: <u>Hub D ch 17</u>	<u>189.25</u>	<u>189.2503</u>			<u>4.500</u>
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable  
 Test Point Location: Henderson Line up @ WUBA  
 Date of Test: Aug 2, 2005 Time: 10:30 AM  
 Tech(s) Performing Test: Jerome Kelly

Highest Band Pass: 750 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	Agilent 8591C	3329A02949	05/10/05
Frequency Counter			
Variable Attenuator			
Band Pass Filter 1			N/A
Band Pass Filter 2			N/A

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	55.2499	55.2550	55.2450	4.500
3	61.2500	61.2501	61.2550	61.2450	4.500
4	67.2500	67.2501	67.2550	67.2450	4.500
	73.0000		N/A	N/A	N/A
5	77.2500		77.2550	77.2450	
6	83.2500		83.2550	83.2450	
6+1	89.2500		89.2550	89.2450	
6+2	95.2500		95.2550	95.2450	
6+3	101.2500		101.2550	101.2450	
A-5	91.2500		91.2550	91.2450	
A-4	97.2500		97.2550	97.2450	
A-3	103.2500		103.2550	103.2450	
A-2	109.2750		109.2800	109.2700	
A-1	115.2750		115.2800	115.2700	

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: TIME WARNER CABLE

Test Point Location: HENDERSON LINEUP @ HUB A

Test Point Number: 0.1

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625		367.2675	367.2575	
49	373.2625		373.2675	373.2575	
50	379.2625		379.2675	379.2575	
51	385.2625		385.2675	385.2575	
52	391.2625	<u>391.2624</u>	391.2675	391.2575	<u>4.500</u>
53	397.2625		397.2675	397.2575	
54	403.2500		403.2550	403.2450	
55	409.2500		409.2550	409.2450	
56	415.2500		415.2550	415.2450	
57	421.2500		421.2550	421.2450	
58	427.2500		427.2550	427.2450	
59	433.2500	<u>433.2496</u>	433.2550	433.2450	<u>4.500</u>
60	439.2500	<u>439.2496</u>	439.2550	439.2450	<u>4.500</u>
61	445.2500	<u>445.2490</u>	445.2550	445.2450	<u>4.500</u>
62	451.2500		451.2550	451.2450	
63	457.2500		457.2550	457.2450	
64	463.2500		463.2550	463.2450	
65	469.2500		469.2550	469.2450	
66	475.2500		475.2550	475.2450	
67	481.2500		481.2550	481.2450	
68	487.2500	<u>487.2494</u>	487.2550	487.2450	<u>4.500</u>
69	493.2500		493.2550	493.2450	
70	499.2500		499.2550	499.2450	
71	505.2500		505.2550	499.2450	
72	511.2500		511.2550	499.2450	
73	517.2500		517.2550	499.2450	
74	523.2500		523.2550	499.2450	
75	529.2500		529.2550	499.2450	
76	535.2500		535.2550	499.2450	
77	541.2500		541.2550	499.2450	
78	547.2500		547.2550	499.2450	
79	553.2500		553.2550	499.2450	
80	559.2500		559.2550	499.2450	
81	565.2500		565.2550	499.2450	
82	571.2500		571.2550	499.2450	
83	577.2500		577.2550	499.2450	
84	583.2500		583.2550	499.2450	
85	589.2500		589.2550	499.2450	
86	595.2500		595.2550	499.2450	
87	601.2500		601.2550	499.2450	
116	745.2500		745.2550	745.2450	

\* - Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

System Name: HENDERSON  
 Test Point Location: HUB 22  
 Date of Test: 7/29/05 Time: 8:05 AM  
 Tech(s) Performing Test: JIM VORNDRAN

Highest Band Pass: 765 MHz  
 Test Point Number: 0.10  
 Temperature: 75°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3543A01171</u>	<u>1/24/05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	<u>55.2499</u>	55.2550	55.2450	<u>4.4999</u>
3	61.2500	<u>61.2500</u>	61.2550	61.2450	<u>4.4999</u>
4	67.2500	<u>67.2501</u>	67.2550	67.2450	<u>4.5000</u>
	73.0000		N/A	N/A	N/A
5	77.2500	<u>77.2508</u>	77.2550	77.2450	<u>4.5000</u>
6	83.2500		83.2550	83.2450	
6+1	89.2500		89.2550	89.2450	
6+2	95.2500		95.2550	95.2450	
6+3	101.2500		101.2550	101.2450	
A-5	91.2500		91.2550	91.2450	
A-4	97.2500		97.2550	97.2450	
A-3	103.2500		103.2550	103.2450	
A-2	109.2750		109.2800	109.2700	
A-1	115.2750	<u>115.2751</u>	115.2800	115.2700	<u>4.4999</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: HENDERSON

Test Point Location: HUB 22

Test Point Number: 0.16

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
14	121.2625	<u>121.2624</u>	121.2675	121.2575	<u>4.5000</u>
15	127.2625	<u>127.2624</u>	127.2675	127.2575	<u>4.4999</u>
16	133.2625	<u>133.2624</u>	133.2675	133.2575	<u>4.5001</u>
17	139.2500	<u>139.2498</u>	139.2550	139.2450	<u>4.5001</u>
18	145.2500	<u>145.2499</u>	145.2550	145.2450	<u>4.5000</u>
19	151.2500	<u>151.2498</u>	151.2550	151.2450	<u>4.5001</u>
20	157.2500	<u>157.2503</u>	157.2550	157.2450	<u>4.5000</u>
21	163.2500	<u>163.2497</u>	163.2550	163.2450	<u>4.4999</u>
22	169.2500	<u>169.2498</u>	169.2550	169.2450	<u>4.5000</u>
7	175.2500	<u>175.2499</u>	175.2550	175.2450	<u>4.5000</u>
8	181.2500	<u>181.2501</u>	181.2550	181.2450	<u>4.4999</u>
* 9	187.2500	<u>187.2394</u>	187.2550	187.2450	<u>4.5000</u>
10	193.2500	<u>193.2495</u>	193.2550	193.2450	<u>4.4999</u>
11	199.2500	<u>199.2497</u>	199.2550	199.2450	<u>4.5000</u>
* 12	205.2500	<u>205.2623</u>	205.2550	204.2450	<u>4.5000</u>
13	211.2500	<u>211.2494</u>	211.2550	211.2450	<u>4.4999</u>
23	217.2500	<u>217.2495</u>	217.2550	217.2450	<u>4.5000</u>
24	223.2500	<u>223.2499</u>	223.2550	223.2450	<u>4.5001</u>
25	229.2625	<u>229.2623</u>	229.2675	229.2575	<u>4.5000</u>
26	235.2625	<u>235.2625</u>	235.2675	235.2575	<u>4.4999</u>
27	241.2625	<u>241.2624</u>	241.2675	241.2575	<u>4.4998</u>
28	247.2625	<u>247.2624</u>	247.2675	247.2575	<u>4.4999</u>
29	253.2625	<u>253.2624</u>	253.2675	253.2575	<u>4.5001</u>
30	259.2625	<u>259.2624</u>	259.2675	259.2575	<u>4.5000</u>
31	265.2625	<u>265.2622</u>	265.2675	265.2575	<u>4.4998</u>
32	271.2625	<u>271.2622</u>	271.2675	271.2575	<u>4.4999</u>
33	277.2625	<u>277.2622</u>	277.2675	277.2575	<u>4.4999</u>
34	283.2625	<u>283.2622</u>	283.2675	283.2575	<u>4.5000</u>
35	289.2625	<u>289.2628</u>	289.2675	289.2575	<u>4.5000</u>
36	295.2625	<u>295.2622</u>	295.2675	295.2575	<u>4.5001</u>
37	301.2625	<u>301.2621</u>	301.2675	301.2575	<u>4.5001</u>
38	307.2625	<u>307.2625</u>	307.2675	307.2575	<u>4.4998</u>
39	313.2625	<u>313.2621</u>	313.2675	313.2575	<u>4.5001</u>
40	319.2625	<u>319.2622</u>	319.2675	319.2575	<u>4.4999</u>
41	325.2625	<u>325.2622</u>	325.2675	325.2575	<u>4.4999</u>
42	331.2750	<u>331.2742</u>	331.2800	331.2700	<u>4.4997</u>
43	337.2625	<u>337.2622</u>	337.2675	337.2575	<u>4.4999</u>
44	343.2625	<u>343.2615</u>	343.2675	343.2575	<u>4.4998</u>
45	349.2625	<u>349.2623</u>	349.2675	349.2575	<u>4.4999</u>
46	355.2625	<u>355.2622</u>	355.2675	355.2575	<u>4.4999</u>
47	361.2625	<u>361.2622</u>	361.2675	361.2575	<u>4.4998</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)



## Section 1 - Frequency Accuracy Test

Continued

System Name: HENDERSON

Test Point Location: HUB 22

Test Point Number: 0.10

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625	<u>367.2622</u>	367.2675	367.2575	<u>4.4999</u>
49	373.2625	<u>373.2618</u>	373.2675	373.2575	<u>4.5001</u>
50	379.2625	<u>379.2618</u>	379.2675	379.2575	<u>4.4999</u>
51	385.2625	<u>385.2618</u>	385.2675	385.2575	<u>4.5001</u>
52	391.2625	<u>391.2621</u>	391.2675	391.2575	<u>4.4998</u>
53	397.2625	<u>397.2617</u>	397.2675	397.2575	<u>4.4998</u>
54	403.2500	<u>403.2493</u>	403.2550	403.2450	<u>4.5001</u>
55	409.2500	<u>409.2492</u>	409.2550	409.2450	<u>4.4999</u>
56	415.2500	<u>415.2492</u>	415.2550	415.2450	<u>4.5001</u>
57	421.2500	<u>421.2506</u>	421.2550	421.2450	<u>4.5000</u>
58	427.2500	<u>427.2493</u>	427.2550	427.2450	<u>4.4998</u>
59	433.2500	<u>433.2496</u>	433.2550	433.2450	<u>4.5000</u>
60	439.2500	<u>439.2497</u>	439.2550	439.2450	<u>4.5000</u>
61	445.2500	<u>445.2487</u>	445.2550	445.2450	<u>4.4998</u>
62	451.2500	<u>451.2494</u>	451.2550	451.2450	<u>4.5001</u>
63	457.2500	<u>457.2493</u>	457.2550	457.2450	<u>4.4999</u>
64	463.2500	<u>463.2498</u>	463.2550	463.2450	<u>4.4998</u>
65	469.2500	<u>469.2497</u>	469.2550	469.2450	<u>4.5000</u>
66	475.2500	<u>475.2504</u>	475.2550	475.2450	<u>4.5000</u>
67	481.2500	<u>481.2499</u>	481.2550	481.2450	<u>4.5000</u>
68	487.2500	<u>487.2495</u>	487.2550	487.2450	<u>4.5001</u>
69	493.2500	<u>493.2494</u>	493.2550	493.2450	<u>4.5001</u>
70	499.2500	<u>499.2484</u>	499.2550	499.2450	<u>4.5000</u>
71	505.2500	<u>505.2494</u>	505.2550	499.2450	<u>4.4999</u>
72	511.2500	<u>511.2507</u>	511.2550	499.2450	<u>4.4998</u>
73	517.2500	<u>517.2507</u>	517.2550	499.2450	<u>4.5000</u>
74	523.2500	<u>523.2493</u>	523.2550	499.2450	<u>4.4998</u>
75	529.2500	<u>529.2493</u>	529.2550	499.2450	<u>4.5000</u>
76	535.2500	<u>535.2506</u>	535.2550	499.2450	<u>4.5000</u>
77	541.2500	<u>541.2505</u>	541.2550	499.2450	<u>4.5000</u>
78	547.2500		547.2550	499.2450	
79	553.2500		553.2550	499.2450	
80	559.2500		559.2550	499.2450	
81	565.2500		565.2550	499.2450	
82	571.2500		571.2550	499.2450	
83	577.2500		577.2550	499.2450	
84	583.2500		583.2550	499.2450	
85	589.2500		589.2550	499.2450	
86	595.2500		595.2550	499.2450	
87	601.2500		601.2550	499.2450	
116	745.2500	<u>745.2508</u>	745.2550	745.2450	<u>4.5000</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

### I-Net or other "Special" Signals

System Name: BLANK, CARRIERS / LOCAL INSERTIONS

Test Point Location: Oxford xx, WARREN NW, LOUISBURG WV Test Point Number: VARIOUS

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
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Location: HUB XX TP 0.9

17	139.2500	139.2499	139.2550	139.2450	4.5001
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Location: HUB WW TP 0.8

17	139.2500	139.2531	139.2550	139.2450	4.5000
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Location: HUB VV TP 0.7

17	139.2500	139.2517	139.2550	139.2450	4.5000
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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER Cable DURHAM  
 Test Point Location: HEADEND - Hub A  
 Date of Test: Aug 2, 2005 Time: 2:00 P.M  
 Tech(s) Performing Test: JEROME Kelly

Highest Band Pass: 765 MHZ  
 Test Point Number: 0.1  
 Temperature: 70.°

Equipment Used	Make/Model	Serial Number	Calibration Date	Last
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115A04957</u>	<u>8/08/05</u>	
Pre-Amplifier	<u>TEKLITIC AM1000</u>	<u>200318015</u>	<u>N/A</u>	
Variable Attenuator				
Band Pass Filter 1	<u>TEKLITIC VF4 42</u>	<u>9509081</u>	<u>N/A</u>	
Band Pass Filter 2			<u>N/A</u>	
Field Strength Meter				
Channel Selector			<u>N/A</u>	

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>				<u>78</u>		<u>64.0</u>	<u>0.4</u>
<u>5</u>				<u>73</u>		<u>58.9</u>	
<u>12</u>				<u>72.2</u>		<u>57.0</u>	
<u>16</u>				<u>69.2</u>		<u>59.9</u>	
<u>26</u>				<u>76.9</u>		<u>55.0</u>	
<u>29</u>				<u>72.7</u>		<u>60.0</u>	
<u>34</u>				<u>72.9</u>		<u>53.0</u>	
<u>51</u>				<u>75</u>		<u>57.9</u>	
<u>57</u>				<u>79</u>		<u>60.2</u>	
<u>64</u>				<u>84</u>		<u>59.1</u>	
<u>75</u>				<u>73.</u>		<u>54.9</u>	
116				<u>74.</u>		<u>55.0</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER Cable, DURHAM, NC  
 Test Point Location: HUB B, ARCHDALE DR  
 Date of Test: Aug 4, 2005 Time: 11:00 A.M.  
 Tech(s) Performing Test: JEROME Kelly

Highest Band Pass: 765 MHz  
 Test Point Number: C-2  
 Temperature: 70°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITHIC VF4-22</u>	<u>9809081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances				C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO CM		
<u>2</u>				<u>73.4</u>	<u>58.1</u>	<u>0.5</u>
<u>5</u>				<u>77.9</u>	<u>57.2</u>	
<u>12</u>				<u>76.5</u>	<u>57.0</u>	
<u>16</u>				<u>76.2</u>	<u>52.9</u>	
<u>26</u>				<u>79.0</u>	<u>59.0</u>	
<u>29</u>				<u>75.8</u>	<u>55.0</u>	
<u>34</u>				<u>80.2</u>	<u>57.8</u>	
<u>51</u>				<u>75.6</u>	<u>57.5</u>	
<u>57</u>				<u>74.7</u>	<u>53.7</u>	
<u>64</u>				<u>74.1</u>	<u>59.0</u>	
<u>75</u>				<u>80</u>	<u>56.0</u>	
116				<u>69</u>	<u>51.1</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER CABLE DUBLIN  
 Test Point Location: HUB C STADIUM DR.  
 Date of Test: AUG 4, 2005 Time: 2:00 PM  
 Tech(s) Performing Test: JEROME KELLY

Highest Band Pass: 765 MHz  
 Test Point Number: 0.3  
 Temperature: 70.0

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>41157A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM 1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			<u>N/A</u>
Band Pass Filter 1	<u>TRILITHIC VF-4-xx</u>	<u>9009081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			<u>N/A</u>
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>				<u>72.0</u>		<u>56.4</u>	<u>0.4</u>
<u>5</u>				<u>75.1</u>			
<u>12</u>				<u>76.4</u>		<u>56.4</u>	
<u>16</u>				<u>76.4</u>		<u>55.8</u>	
<u>26</u>				<u>73.4</u>		<u>55.0</u>	
<u>29</u>				<u>71.0</u>		<u>53.0</u>	
<u>34</u>				<u>73.3</u>		<u>56.3</u>	
<u>51</u>				<u>66.5</u>		<u>50.0</u>	
<u>57</u>				<u>73.8</u>		<u>58.1</u>	
<u>64</u>				<u>71.6</u>		<u>56.4</u>	
<u>75</u>				<u>74.4</u>		<u>58.4</u>	
116				<u>77.0</u>		<u>55.6</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER CABLE, DURHAM, NC Highest Band Pass: 765 MHz  
 Test Point Location: HUB D, CREEDMORE, NC Test Point Number: 04  
 Date of Test: AUG 3, 2005 Time: 15:30 Temperature: 70°  
 Tech(s) Performing Test: JEROME KELLY

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115 A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM-1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>VF-4-XX</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viiii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>					<u>75.1</u>	<u>59.5</u>	<u>0.4</u>
<u>5</u>					<u>81.2</u>	<u>59.0</u>	
<u>12</u>					<u>73.2</u>	<u>56.4</u>	
<u>16</u>					<u>77.4</u>	<u>56.5</u>	
<u>26</u>					<u>78.9</u>	<u>56.0</u>	
<u>29</u>					<u>75.2</u>	<u>52.0</u>	
<u>34</u>					<u>73.3</u>	<u>52.0</u>	
<u>51</u>					<u>68.5</u>	<u>50.0</u>	
<u>57</u>					<u>72.0</u>	<u>56.9</u>	
<u>64</u>					<u>76.7</u>	<u>56.7</u>	
<u>75</u>					<u>71.3</u>	<u>55.4</u>	
116					<u>72.5</u>	<u>52.0</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER CABLE, DURHAM, NC      Highest Band Pass: 765 MHz  
 Test Point Location: HUB E, South Chapel Hill, NC      Test Point Number: 0.5  
 Date of Test: Aug 3, 2005      Time: 09:30 AM      Temperature: 70.0  
 Tech(s) Performing Test: JEROME KELLY

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP8591C</u>	<u>4115A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM-1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITHIC VF-4-VV</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>					<u>72</u>		<u>0.4</u>
<u>5</u>					<u>72</u>		
<u>12</u>					<u>73</u>		
<u>16</u>					<u>74</u>		
<u>26</u>					<u>76.7</u>		
<u>29</u>					<u>80.0</u>		
<u>34</u>					<u>76.5</u>		
<u>51</u>					<u>72.0</u>		
<u>57</u>					<u>68.9</u>		
<u>64</u>					<u>70.7</u>		
<u>75</u>					<u>74.0</u>		
<u>116</u>					<u>75.2</u>		

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER Cable, Durham, NC  
 Test Point Location: HUB Y, OLD HW 87, Hillsboro  
 Date of Test: Aug 3, 2005 Time: 11:30  
 Tech(s) Performing Test: JEROME KELLY

Highest Band Pass: 765 MHz  
 Test Point Number: 0.6  
 Temperature: 70

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115A 04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRULITHIC AM1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRULITHIC VF-4-2x</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>					<u>75.9</u>		<u>0.3</u>
<u>5</u>					<u>76.7</u>		
<u>12</u>					<u>71.6</u>		
<u>16</u>					<u>74.4</u>		
<u>26</u>					<u>74.4</u>		
<u>29</u>					<u>75.0</u>		
<u>34</u>					<u>76.0</u>		
<u>51</u>					<u>76.5</u>		
<u>57</u>					<u>76.6</u>		
<u>64</u>					<u>69.4</u>		
<u>75</u>					<u>68.0</u>		
116					<u>71.7</u>		<u>52.3</u>



## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON  
 Test Point Location: HUB 22  
 Date of Test: 7/29/05 Time: 9:30 AM  
 Tech(s) Performing Test: JIM VORNDRAN

Highest Band Pass: 765 MHz  
 Test Point Number: 0.10  
 Temperature: 75°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3543A01171</u>	<u>1/24/05</u>
Pre-Amplifier	<u>CHAS 962-4205</u>	<u>0227654</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITIK VF-5-XX</u>	<u>9705011</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances						C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM			
<u>2</u>	<u>1.02</u>	<u>67</u>				<u>53.5</u>	<u>0.5</u>	
<u>4</u>	<u>0.96</u>	<u>72</u>				<u>53.4</u>		
<u>16</u>	<u>1.48</u>	<u>65</u>				<u>52.2</u>		
<u>10</u>	<u>0.87</u>	<u>71</u>				<u>58.0</u>		
<u>26</u>	<u>1.53</u>	<u>69</u>				<u>53.2</u>		
<u>29</u>	<u>1.36</u>	<u>71</u>				<u>51.9</u>		
<u>34</u>	<u>1.56</u>	<u>70</u>				<u>51.4</u>		
<u>51</u>	<u>0.64</u>	<u>63</u>				<u>50.7</u>		
<u>59</u>	<u>0.70</u>	<u>68</u>				<u>56.4</u>		
<u>64</u>	<u>1.20</u>	<u>69</u>				<u>51.2</u>		
<u>75</u>	<u>1.08</u>	<u>68</u>				<u>53.1</u>		
<u>116</u>	<u>1.04</u>	<u>68</u>				<u>52.5</u>		

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHZ

Test Point Location: S. Main ST. Warren Ton

Test Point Number: 1

Date of Test: 8/11/05 Time: 2:15 PM

Temperature: 95°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.27	63				47.1	
4	1.20	60				48	
10	1.26	65				48.9	
12	1.27	62				49.1	
26	1.24	57				48.6	
29	1.23	65				48.3	
34	1.26	60				49	
51	1.30	60				49.6	
59	1.20	62				50	
64	1.20	61				48.3	
75	1.21	63				50	
116	1.29	63				49.4	1.0

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass 770 MHZ

Test Point Location: Hibernia Rd

Test Point Number: 2

Date of Test: 8/12/05 Time: 10:30

Temperature: 94°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

Minimum Specifications: All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.20	61				42	
4	1.27	60				48.1	
10	1.24	64				47.9	
12	1.30	64				49.4	
26	1.23	59				49.1	
29	1.23	54				48.3	
34	1.23	64				48.1	
51	1.30	60				48.3	
59	1.23	59				49.6	
64	1.21	62				49.8	
75	1.20	59				50	
116	1.22	60				49.9	0.7

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass 770 MHZ

Test Point Location: 419 Hwy 561 - Louisburg

Test Point Number: 3

Date of Test: 8/11/05 Time: 8:45

Temperature: 29

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

Test Setup used: The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

Minimum Specifications: All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.26	54				47.2	
4	1.23	54				47.5	
10	1.21	57				48.4	
12	1.23	58				48.7	
26	1.21	65				48.0	
29	1.21	65				48.1	
34	1.23	54				48.	
51	1.26	57				50.9	
59	1.21	63				48.9	
64	1.29	62				50	
75	1.24	66				50.1	
116	1.23	52				50.3	6.3

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHZ

Test Point Location: Lynnbank Rd

Test Point Number: 4

Date of Test: 8/16/05 Time: 2:00 pm

Temperature: 90°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances						C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO	CM		
2	1.29	68					48	
4	1.25	65					48.2	
10	1.23	62					48	
12	1.30	59					48.3	
26	1.27	62					47.6	
29	1.27	57					49	
34	1.26	62					48.7	
51	1.24	60					48.8	
59	1.26	56					50	
64	1.24	65					50.9	
75	1.25	65					48.3	
116	1.19	62					49.7	0.7

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHz

Test Point Location: Pocket St Stovall

Test Point Number: 5

Date of Test: 8/12/05 Time: 2:30 PM

Temperature: 96 °F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
2	120	60				47.8	
4	120	63				48.5	
10	126	55				47.9	
12	123	57				48.8	
26	124	62				48.3	
29	130	63				48.5	
34	130	65				48.2	
51	129	59				49.4	
59	120	58				50.2	
64	123	62				49.8	
75	127	60				49.9	
116	120	59				49.6	0.7

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Hayworth  
 Date of Test: 7-30-05 Time: 8:55  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 6  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>	<u>.78</u>	<u>69.2</u>				<u>49</u>	<u>1.6</u>
<u>3</u>	<u>.72</u>	<u>69.3</u>				<u>48.2</u>	
<u>9</u>	<u>1.23</u>	<u>65.6</u>				<u>49.1</u>	
<u>22</u>	<u>-1.22</u>	<u>67.4</u>				<u>48.6</u>	
<u>26</u>	<u>1.29</u>	<u>70.3</u>				<u>48.7</u>	
<u>29</u>	<u>.76</u>	<u>66.1</u>				<u>48.3</u>	
<u>34</u>	<u>1.26</u>	<u>65.6</u>				<u>48.3</u>	
<u>43</u>	<u>.76</u>	<u>67.5</u>				<u>49.4</u>	
<u>49</u>	<u>.76</u>	<u>67.5</u>				<u>47.9</u>	
<u>57</u>	<u>1.23</u>	<u>69.3</u>				<u>47.7</u>	
<u>75</u>	<u>1.29</u>	<u>67.2</u>				<u>48</u>	
<u>116</u>	<u>-1.29</u>	<u>58.2</u>				<u>48.8</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Hoover Rd  
 Date of Test: 7-29-05 Time: 3:07  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 7  
 Temperature: 80

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.26	59.1				47.2	1.3
3	1.20	69.2				47.4	
9	-1.28	63.6				49.1	
22	-1.26	67.2				48.7	
26	-1.28	60.6				49.4	
29	.84	64				47.6	
34	.70	67.5				48	
43	.75	65.8				49.2	
49	1.29	64.8				47.7	
57	1.26	62.4				48.4	
75	1.29	63.9				48.6	
116	-.70	69.5				47.1	



## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Lavender  
 Date of Test: 7-30-05 Time: 3:06  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 8  
 Temperature: 78

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>1.28</u>	<u>68.2</u>				<u>48</u>	<u>1.8</u>
<u>3</u>	<u>.79</u>	<u>66.4</u>				<u>47.7</u>	
<u>9</u>	<u>.74</u>	<u>66.9</u>				<u>48.1</u>	
<u>22</u>	<u>-1.23</u>	<u>60.8</u>				<u>48.4</u>	
<u>26</u>	<u>-1.22</u>	<u>62.4</u>				<u>47.9</u>	
<u>29</u>	<u>-.76</u>	<u>66.4</u>				<u>47.6</u>	
<u>34</u>	<u>1.24</u>	<u>66.8</u>				<u>49.2</u>	
<u>43</u>	<u>1.28</u>	<u>67.2</u>				<u>48.4</u>	
<u>49</u>	<u>1.22</u>	<u>64.2</u>				<u>48.2</u>	
<u>57</u>	<u>1.75</u>	<u>60.4</u>				<u>47.6</u>	
<u>75</u>	<u>1.78</u>	<u>66.6</u>				<u>46.8</u>	
<u>116</u>	<u>1.23</u>	<u>60.4</u>				<u>48.1</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Ravenwoods  
 Date of Test: 8-1-05 Time: 8:46  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 9  
 Temperature: 74

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.29	67.5				50.7	.6
3	.73	68.7				48.3	
9	1.23	67.7				50.8	
22	-1.29	61.7				48.3	
26	1.23	72.3				47.5	
29	.72	73.9				50.2	
34	-1.22	69.5				47.5	
43	.75	70				49.7	
49	-1.25	68.8				48.4	
57	-1.20	68.8				48.3	
75	1.27	73.2				48.9	
116	1.25	67.2				50	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Dixon Rd  
 Date of Test: 7-30-05 Time: 12:41  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 10  
 Temperature: 77

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AvM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>.78</u>	<u>69.1</u>				<u>48.1</u>	<u>.3</u>
<u>3</u>	<u>.79</u>	<u>67.4</u>				<u>48.3</u>	
<u>9</u>	<u>.70</u>	<u>68.4</u>				<u>47</u>	
<u>22</u>	<u>1.29</u>	<u>68.3</u>				<u>48.1</u>	
<u>26</u>	<u>-.74</u>	<u>66</u>				<u>48.8</u>	
<u>29</u>	<u>.76</u>	<u>65.3</u>				<u>47.2</u>	
<u>34</u>	<u>-.78</u>	<u>66.3</u>				<u>48.5</u>	
<u>43</u>	<u>-1.28</u>	<u>69.7</u>				<u>49.7</u>	
<u>49</u>	<u>-1.28</u>	<u>66.5</u>				<u>48.4</u>	
<u>57</u>	<u>.78</u>	<u>67.8</u>				<u>47.8</u>	
<u>75</u>	<u>-1.20</u>	<u>66.7</u>				<u>48.1</u>	
<u>116</u>	<u>-1.26</u>	<u>60.8</u>				<u>47.7</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Arbor Field  
 Date of Test: 11/16/05 Time: 10:30am  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 750kHz  
 Test Point Number: 11  
 Temperature: 65°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VS/NA</u>	<u>35-860MHZ</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic Am1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>1.32</u>	<u>67</u>				<u>47</u>	<u>.2</u>
<u>3</u>	<u>-.72</u>	<u>72</u>				<u>51</u>	
<u>9</u>	<u>1.26</u>	<u>66</u>				<u>48</u>	
<u>22</u>	<u>1.28</u>	<u>71</u>				<u>46</u>	
<u>26</u>	<u>-1.72</u>	<u>69</u>				<u>52</u>	
<u>29</u>	<u>1.24</u>	<u>72</u>				<u>45</u>	
<u>34</u>	<u>-1.25</u>	<u>68</u>				<u>49</u>	
<u>43</u>	<u>-1.28</u>	<u>66</u>				<u>51</u>	
<u>49</u>	<u>.72</u>	<u>71</u>				<u>51</u>	
<u>57</u>	<u>1.76</u>	<u>72</u>				<u>47</u>	
<u>75</u>	<u>-1.25</u>	<u>68</u>				<u>50</u>	
<u>116</u>	<u>-1.26</u>	<u>73</u>				<u>45</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Oak Grove  
 Date of Test: 8-1-05 Time: 10:20  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 12  
 Temperature: 78

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AvM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise: Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	-1.77	71.2				49	1.0
3	1.24	65.7				47.5	
9	-1.29	65.3				47.1	
22	-1.23	64.5				48.4	
26	-1.28	68.2				47.4	
29	-1.29	65.6				47.5	
34	.78	67				47.1	
43	1.27	65.5				47.7	
49	1.24	63.6				49	
57	1.28	70.2				47.6	
75	1.24	65.7				47.3	
116	1.29	62.1				47.2	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Adirondack  
 Date of Test: 7-30-05 Time: 10:10  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 13  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AvM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>.79</u>	<u>70</u>				<u>49</u>	<u>.9</u>
<u>3</u>	<u>1.20</u>	<u>70.9</u>				<u>48.5</u>	
<u>9</u>	<u>.77</u>	<u>67.9</u>				<u>50.9</u>	
<u>22</u>	<u>.75</u>	<u>70.2</u>				<u>52.6</u>	
<u>26</u>	<u>1.27</u>	<u>69</u>				<u>49.4</u>	
<u>29</u>	<u>.78</u>	<u>68.6</u>				<u>48.8</u>	
<u>34</u>	<u>.79</u>	<u>65.7</u>				<u>48.7</u>	
<u>43</u>	<u>.78</u>	<u>66.1</u>				<u>50.2</u>	
<u>49</u>	<u>.70</u>	<u>71.1</u>				<u>47.5</u>	
<u>57</u>	<u>.71</u>	<u>69.8</u>				<u>47.7</u>	
<u>75</u>	<u>1.26</u>	<u>68.6</u>				<u>49.3</u>	
<u>116</u>	<u>1.29</u>	<u>68.5</u>				<u>48.3</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: W Parbee Chapel  
 Date of Test: 7-30-05 Time: 11:17  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770MHz  
 Test Point Number: 14  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise: Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.75	67.4				48	1.0
3	1.20	69				48.1	
9	1.26	71.5				48.4	
22	1.29	68.9				48.2	
26	1.27	69.6				48.5	
29	1.72	69.6				49.8	
34	1.23	68.5				47.7	
43	-1.23	68.3				50.4	
49	1.27	70				47	
57	-1.23	67.8				51.1	
75	1.26	68.9				49.1	
116	-1.29	60.1				48.9	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: New Hope  
 Date of Test: 9-15-05 Time: 11:30 AM  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 mhz  
 Test Point Number: 15  
 Temperature: 85°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3829A02949</u>	<u>5/10/05</u>
Pre-Amplifier	<u>ViewSonic VSLNA</u>	<u>35-860 mhz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic Am1000</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>-76</u>	<u>64</u>				<u>47</u>	<u>.3</u>
<u>3</u>	<u>1.28</u>	<u>71</u>				<u>48</u>	
<u>9</u>	<u>1.26</u>	<u>69</u>				<u>49</u>	
<u>22</u>	<u>-78</u>	<u>74</u>				<u>51</u>	
<u>26</u>	<u>1.24</u>	<u>74</u>				<u>50</u>	
<u>29</u>	<u>-1.28</u>	<u>76</u>				<u>53</u>	
<u>34</u>	<u>-1.25</u>	<u>72</u>				<u>53</u>	
<u>43</u>	<u>1.28</u>	<u>68</u>				<u>52</u>	
<u>49</u>	<u>-76</u>	<u>68</u>				<u>52</u>	
<u>57</u>	<u>1.25</u>	<u>70</u>				<u>51</u>	
<u>75</u>	<u>1.26</u>	<u>67</u>				<u>50</u>	
<u>116</u>	<u>1.28</u>	<u>72</u>				<u>46</u>	





March 31, 2006

Mr. W. Calvin Horton  
Town Manager  
Town of Chapel Hill  
306 N. Columbia Street  
Chapel Hill, NC 27516-2124

Subject: Annual report of CATV system performance

Dear Mr. Horton:

The current franchise agreement between the Town of Chapel Hill and Time Warner Cable under section 10-107 requires that Time Warner Cable provide certification of performance of the cable television system.

The Plant Department of Time Warner Cable performs regular tests on the cable system at designated test locations to assure delivery of quality, service to our customers. The testing is done in conformance with generally accepted testing procedures. The items tested are similar to those listed in section 10-100 of the franchise under the heading of Technical Performance Goals. In addition, Time Warner Cable is also required to provide certification to the Federal Communications Commission that the system meets the requirements of the FCC as related to cumulative leakage, and other technical requirements related to signal off-sets, and carrier frequency specifications.

A recent review of the test data (copy attached) and filings with the FCC indicate that Time Warner Cable is meeting the technical performance standards required by the Federal Communications Commission and the Franchise Agreement with the Town of Chapel Hill.

Sincerely,

A handwritten signature in black ink, appearing to read "K.R. Reid".

Kim Reid  
Senior Director of Engineering  
Time Warner Cable

# PROOF OF PERFORMANCE TESTING

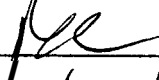
SYSTEM: **Durham**  
PSID#: **007239**  
Included are the former systems of: Henderson/Oxford (PSID#000847)  
Warren (PSID#005029)  
Louisburg (PSID#012670)  
Chape Hill (PSID#001313)

COMMUNITY UNIT NUMBERS: NC0087, NC0343, NC1004, NC0263,  
NC0305, NC0306, NC0131, NC0987,  
NC0132, NC0988, NC0989, NC0990,  
NC0133, NCO169, NC0986, NC0318,  
NC0317, NC0316, NC0844, NCO845,  
NC0234, NC0276, NC0468, NC0997  
NC0649, NC0650, NC0936, NC0470  
NC0130, NC0068, NC0256

The Principal Headend for this PSID is: 924 Ellis Road, Durham, NC 27703  
Latitude: 35-57-43N  
Longitude 78-52-17W

NUMBER OF SUBSCRIBERS: 91,623

TEST DATES: 7-28-05 to 8-28-05

TEST CERTIFIED BY: 

TITLE: Dir of Outside Plant

## INTRODUCTION AND OUTLINE

This document is intended to serve as a record that the above named cable system, serving the above named community unit(s), meet or surpassed the performance and testing requirements set out by the Federal Communications Commission (FCC) for cable television systems having 1,000 or more subscribers. These performance and testing requirements are specified in Part 76 of Chapter I of Title 47 of the Code of Federal Regulations. Primarily Part 76.601 and 76.605.

This document includes a "Specifications Page" that summarizes the FCC requirement, references the rule for each requirement, and specifies what test results were used to "Proof" the requirement. This document also includes a page listing the system test points used and information on how the system test points were selected. Each set of test results includes a summary of how the test was conducted, a listing of the equipment used, including serial numbers of the equipment, and the names of the employees who conducted the test.

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## **SPECIFICATIONS**

### Visual and Audio Carrier Frequency Tolerance

*Reference Rule: 47 CFR, Part 76.605(a)(2), & 76.601(c)(2) 76.612*

*Results "Proofing" this specification can be found in Section 1*

The Audio Carrier Frequency is to be maintained at 4.5 MHz  $\pm$  5 kHz above the video carrier. All Video Carriers operating in the 108 to 137 and 225 to 400 MHz bands must maintain a frequency tolerance of  $\pm$  5 kHz. If a master oscillator is used, as in a Harmonically Related Carrier (HRC) system, the tolerance will be  $\pm$  1 Hz times the integer multiplier. Since the distribution system cannot change the frequency of any carrier, the Headend readings will be representative of the frequencies delivered to all subscriber terminals. The exception would be when a CATV channel selector is in use. In this case, the visuallaural frequency difference will be solely based on the channel selector modulator's difference frequency and the converter does not output any FAA band channels. Additionally, all baseband converters used in this system are specified by the manufacturer to have a visuallaural frequency difference of 4.5 MHz  $\pm$  5 kHz, the same as the FCC spec. Copies of manufacturer's spec sheets are available for inspection upon request. As a good engineering practice, all video and audio carriers on the system will be tested for compliance with the above. For those carriers originating as an offset off-air video carrier, not operating on the cable system in the 108 to 137 or 225 to 400 MHz bands, the frequency tolerance will be  $\pm$  5 KHz from the original resulting offset. Additionally, all I-Net channel carriers in the 108 to 137 and 225 to 400 MHz range will be tested with the expectation that they meet the same frequency standards.

### Carrier-To-Noise

*Reference Rule: 47 CFR, Part 76.605(a)(8), & 76.601(c)(2)*

*Results "Proofing" this specification can be found in Section 2*

The Carrier-To-Noise ratio, as measured at the output of a channel selector, must be at least 43 dB as of June 30, 1995. This test must be made on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. Calculations, have confirmed that if the cable system delivers a 44.2 dB Carrier-To-Noise to the channel selectors used in this system, with normal channel selector inputs, the resulting Carrier-To-Noise at the output of the channel selector will be better than the FCC minimum of 43 dB. As a result, and in an attempt to verify the system performance rather than channel selector performance. Carrier-To-Noise will be measured at the end of a 30 meter (98.46 foot) cable drop at all field test points and will be better than 44 dB. To provide an understanding of the Headend performance, this test will also be performed at the Headend test point. (In systems that have been "upgraded" to 550 or 750 Mhz, all Carrier-To-Noise readings are expected to be better than 46 dB.)

### Carrier-To-Coherent Disturbances

*Reference Rule: 47 CFR, Part 76.605(a)(9), & 76.601(c)(2)*

*Results "Proofing" this specification can be found in Section 2*

The Carrier-To-Coherent Disturbances ratio must be at least 47 dB for coherent channel (HRC or JRC) systems and 51 dB for non-coherent channel systems. This test must be made on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. Calculations have confirmed that if the cable system delivers a 51.5 dB Carrier-To-Coherent Disturbance to the channel selectors used in this system, the resultant Carrier-To-Coherent Disturbance at the output of the channel selector will be better than the

## **SPECIFICATIONS**

Continued

FCC minimum of 51 dB. (For coherent channel systems calculations have shown the minimum delivered by the system must be 47.5 dB.) As a result, and in an attempt to verify the system performance rather than channel selector performance, Carrier-To-Coherent Disturbance will be measured at the end of a 30 meter (98.46 foot) cable drop at all field test points and will be better than 52 dB (48 dB for Coherent channel systems). This test will also be performed at the Headend test point as well.

### **Hum Modulation**

*Reference Rule: 47 CFR, Part 76.605(a)(1), & 76.601(c)(2)*

*Results "Proofing" this specification can be found in Section 2*

Hum Modulation, peak-to-peak variation in visual signal level caused by undesired low frequency disturbances generated within the system. is not to exceed 3 percent of the visual signal level. Because such low frequency disturbances are not normally frequency dependent this test need only be completed on one low frequency channel and one high frequency channel at each test point.

### **Channel Frequency Response**

*Reference Rule: 47 CFR, Part 76.605(a)(7), & 76.601(c)(2)*

*Results "Proofing" this specification can be found in Section 4*

The NTSC analog in channel frequency response as measured at the subscriber terminal, will be +/- 2 dB from .75 MHz to 5 MHz above the lower channel boundary. This test must be made on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. This measurement will be made at each test point before the channel selector. Beginning December 30, 1999 this measurement must be made after the channel selector.

### **Audio Carrier Level**

*Reference Rule: 47 CFR, Part 76.605(a)(6), & 76.601(c)(2)*

*Results "Proofing" this specification can be found in Section 3*

Each NTSC channel's Audio Carrier is to be maintained 6.5 to 17 dB below the channel's video carrier, and shall be maintained at levels not to cause interference to the upper adjacent channel. This measurement is to be made at each test point, and at the Headend test point.

### **Visual Carrier Level Variations**

*Reference Rule(s): 47 CFR, Part 76.605(a)(5), & 76.601(c)(4), 76.601(c)(3)*

*Results "Proofing" this specification can be found in Section 3*

The Visual Carrier level of each NTSC channel is to be at least 3 dBm V as measured at the end of a 100 foot drop attached to a "normal subscriber's tap", and at least 0 dBm V at the subscriber terminal. Maximum signal level at the subscriber terminal will be such as not to overload the device. The visual carrier is not to vary in level more than 8 dB within any 6 month interval which must include four tests performed in a 24 hour period in January or February and a 24 hour period in July or August. Additionally, the Visual Carrier Level cannot vary more than 3 dB from any visual carrier within 6 MHz, and 10dB from ANY visual carrier on the cable

## **SPECIFICATIONS**

Continued

television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz, 1 additional dB per 100 MHz of forward bandwidth is allowed).

### **Signal Leakage**

*Reference Rule: 47 CFR, Part 76.605(a)(13), & 76.609(h)*

*Results "Proofing" this specification can be found in Section 5*

Signal leakage from the cable television system shall not exceed 20 microvolt/meter at 3 meters when measured in the 54 to 216 MHz band.

### **Chrominance-Luminance Delay Inequality**

*Reference Rule: 47 CFR, Part 76.605(a)(12)(i), & 76.601(c)(2), & 76.601(c)(4), & 76.609(j)*

*Results "Proofing" this specification can be found in Section 4*

The Chrominance to Luminance Delay (chroma delay), which is the change in delay time of the Chrominance component of the signal relative to the luminance component after passing through the system, shall be within 170 nanoseconds. This test must be made on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. This test will be made on the output of the Headend and each test point. Because of possible problems caused by the Diplex Filters, this test must be performed on channel 2 at each field test point. The Rules allow this test to be performed once every three years but it is our standard practice to perform this test every six months.

### **Differential Gain**

*Reference Rule: 47 CFR, Part 76.605(a)(12)(ii), & 76.601(c)(2), & 76.601(c)(4), & 76.609(j)*

*Results "Proofing" this specification can be found in Section 4*

The Differential Gain, the difference in amplitude between the largest and smallest segments of the Chrominance signal, divided by the largest and expressed in percent, shall not exceed  $\pm 20$  percent. This test must be made on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. Because the signal distribution system has little or no effect on Differential Gain, this test needs only be performed at the output of the Headend. The Rules allow this test to be performed once every three years but it is our standard practice to perform this test every six months.

### **Differential Phase**

*Reference Rule: 47 CFR, Part 76.605(a)(12)(iii), & 76.601(c)(2), & 76.601(c)(4), & 76.609(j)*

*Results "Proofing" this specification can be found in Section 4*

The Differential Phase, the largest phase difference in degrees between each segment of the Chrominance signal and reference segment, (the reference segment being at the blanking level of 0 IRE), shall not exceed  $\pm 10$  degrees. This test must be made on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. Because the signal distribution system has little or no effect on Differential Phase, this test needs only be performed at the output of the Headend. The Rules allow this test to be performed once every three years but it is our standard practice to perform this test every six months.

## **SPECIFICATIONS**

Continued

### **Terminal Isolation**

*Reference Rule: 47 CFR, Part 76.605(a)(10), & 76.601(c)(2), & 76.609(g)*

*Results "Proofing" this specification can be found in Section 6*

At least 18 dB of Terminal Isolation must be provided between tap ports. As provided in the rule, copies of the manufacture's specifications are provided in lieu of actual testing.

### **EAS System Operation**

*Reference Rule: 47 CFR, Part 11*

*Results "Proofing" this specification can be found in Section 7*

Cable systems with 10,000 subscriber or more must install EAS equipment that is capable of providing Audio and Video EAS messages on all Programming Channels by December 31, 1998. Cable Systems with 5,000 to 10,000 subscribers must install EAS equipment that is capable of providing Audio and Video EAS messages on all Programming Channels by October 1, 2002. Cable system with Fewer than 5,000 subscribers must by October 1, 2002, (A) provide the National Level EAS Messages on all programmed Channels including the required testing or (B) install EAS equipment that is capable of providing: The audio alert messages on all programmed channels, video interrupt on all programmed channels and audio and video EAS messages on one programmed channel.

Each system that is required to maintain EAS equipment must log all national received and/or transmitted messages and ail weekly and monthly tests. It is the Raleigh Division's policy to maintain logs of all messages and maintain these logs for five years. Additionally, a copy of the "Emergency Alart System Cable Handbook" must be maintained at each EAS control site. The Raleigh Division's policy is to also maintain a copy of this handbook in the sytem's public inspection file.

## SPECIFICATIONS

Continued

The following are useful charts for interpreting the above specifications, specifically, the number of channels to be tested, number of test points, and the maximum Peek to Vally allowed.

System Uper Frequency Limit (Highest frequency by design or by use)	Mininum Number of Channels to Test	
100 MHz or less	4	
101 MHz to 200 MHz	5	
201 MHz to 300 MHz	6	
301 MHz to 400 MHz	7	
401 MHz to 500 MHz	8	
501 MHz to 600 MHz	9	(550 MHz “Upgraded” Systems)
601 MHz to 700 MHz	10	
701 MHz to 800 MHz	11	(750 MHz “Upgraded” Systems)
801 MHz to 900 MHz	12	(870 MHz “Upgraded” Systems)
901 MHz to 1000 MHz	13	

System Uper Frequency Limit (Highest frequency by design or by use)	Maximum Peek to Vally Allowed, expressed in dB	
300 MHz or Less	10	
301 MHz to 400 MHz	11	
401 MHz to 500 MHz	12	
501 MHz to 600 MHz	13	(550 MHz “Upgraded” Systems)
601 MHz to 700 MHz	13	
701 MHz to 800 MHz	15	(750 MHz “Upgraded” Systems)
801 MHz to 900 MHz	16	(870 MHz “Upgraded” Systems)
901 MHz to 1000 MHz	17	

Please note the Headend is not counted as a test pint when calculating the minimam number of test points to use. (This is a Time Warner Raleigh policy, the FCC rules could count it.)

Number of Subscriber in System	Minimum Number of Test Points
1,000 - 12,500	6
12,501 - 25,000	7
25,001 - 37,500	8
37,501 - 50,000	9
50,001 - 62,500	10
62,501 - 75,000	11
75,001 - 87,500	12
87,501 - 100,000	13
100,001 - 112,500	14
112,501 - 125,000	15
125,001 - 137,500	16
137,501 - 150,000	17
150,001 - 162,500	18
162,501 - 175,000	19
175,001 - 187,500	20
187,501 - 200,000	21



## Over the air Broadcast Stations and Frequency

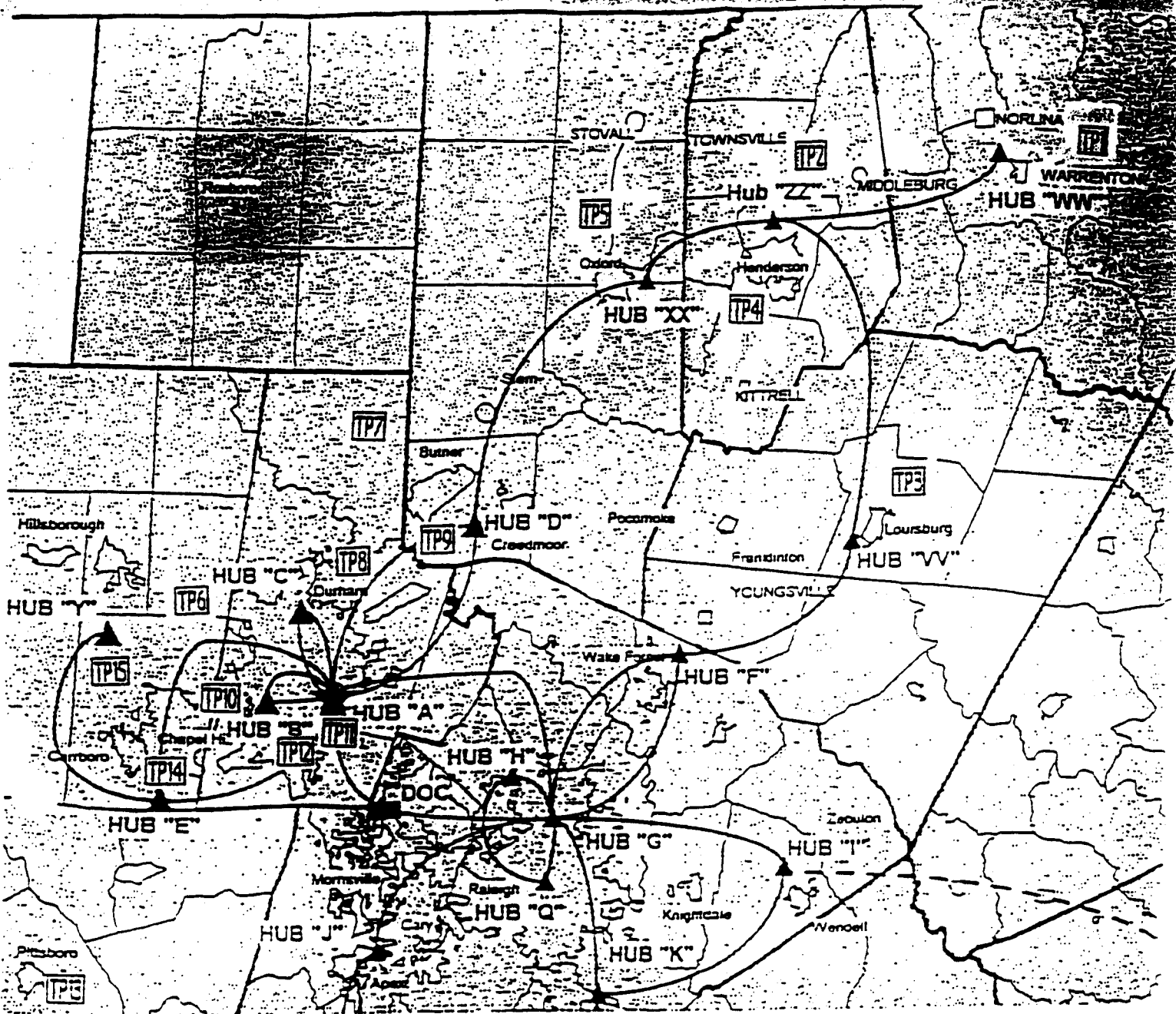
Listed below you will find the frequency offsets for each analog Television Broadcast signal carried in our Division and. Television Broadcast signals are often offset plus or minus 10 KHz to protect other broadcast channels from interference. When offset signals are received by television processor equipment in the Headend and converted to frequencies used on the CATV system, the resulting CATV frequency is offset by the 10 KHz in the opposite direction. The Time Warner Raleigh Division spec is to hold the video frequency to within +/- 5 KHz of the assigned CATV channel frequency. When an offset Television Broadcast signal is used as the source into a processor, the resulting frequency should be maintained to within +/-5 KHz of the assigned CATV channel +/- the 10 KHz. However, when an analog Television Broadcast signal is processed to a CATV frequency in the Aeronautical bands of 108 to 137 and 225 to 400 MHz a frequency tolerance of +/- 5 kHz from the assigned CATV signal is required. To maintain a +/- 5 kHz tolerance in the Aeronautical bands the LO in the input circuit of the processor should be adjusted to bring the output into compliance.

	<u>Station Call</u>	<u>Affiliate</u>	<u>Channel</u>	<u>Offset</u>
	W34AX-LP	IND	34	Plus
	W68BK-LP	IND	68	Zero
	WBTW-TV	CBS	13	Plus
	WCTI-TV	ABC	12	Plus
	WECT-TV	NBC	6	Zero
	WEPX-N	PAX	38	Zero
	WFPX-TV	PAX	62	Zero
	WFXB-TV	FOX	43	Plus
	WITN-TV	NBC	7	Zero
WJVL	<del>WKET-TV</del>	IND	40	Plus
	WLFL-TV	WB	22	Zero
	WNCN-TV	NBC	17	Minus
	WNCT-TV	CBS	9	Minus
	WPDE-TV	ABC	15	Minus
	WRAL-TV	CBS	5	Zero
	WRAY-TV	IND	30	Minus
	WRAZ-TV	FOX	50	Plus
	WRDC-TV	UPN	28	Plus
	WRPX-TV	PAX	47	Plus
	WTNC-TV	Telefutura	26	Zero
	WTVB-TV	ABC	11	Plus
	WUNC-TV	PBS	4	Plus
	WUNG-TV	PBS	58	Zero
	WUNK-TV	PBS	23	Zero
	WUNU-TV	PBS	31	Zero
	WWMB-TV	UPN	21	Zero
	WYDO-TV	FOX	14	Zero

## Test Points

### List of System Test Points Used

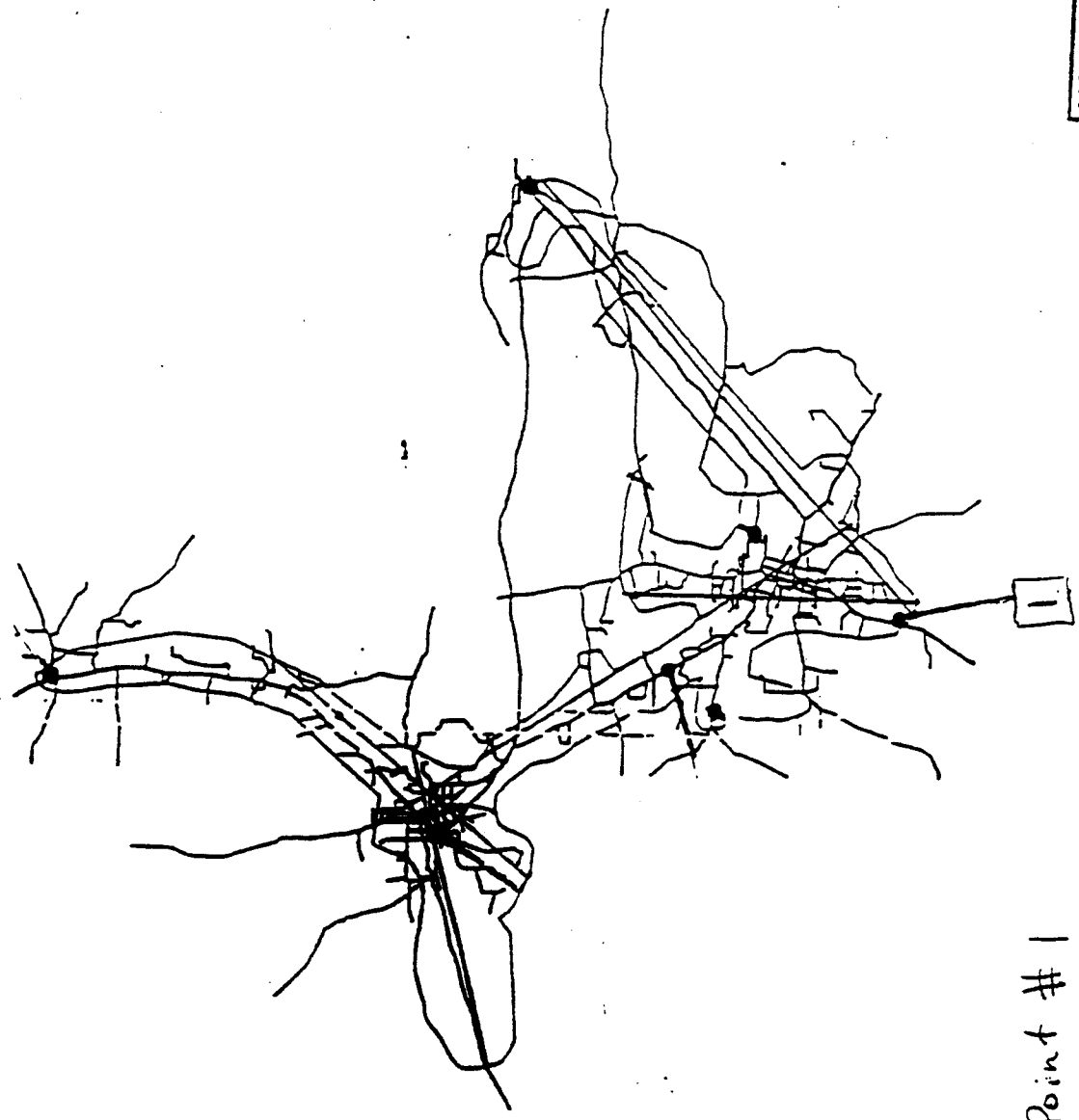
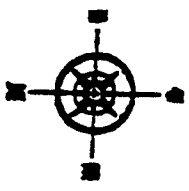
Test Point #	Location	Pole #	Tap Value	Nearest Amp. #	Node Name	Cascade Length (TB/LE)
0.1	Master HEADEND Durham	N/A	N/A	N/A	N/A	0/0
0.2	HUB E Chapel Hill	N/A	N/A	N/A	N/A	0/0
0.3	HUB Y Carrboro	N/A	N/A	N/A	N/A	0/0
0.4	HUB VV Lewisburg	N/A	N/A	N/A	N/A	0/0
0.5	HUB WW Warrenton	N/A	N/A	N/A	N/A	0/0
0.6	HUB XX Oxford	N/A	N/A	N/A	N/A	0/0
0.7	HUB ZZ Henderson	N/A	N/A	N/A	N/A	0/0
0.8	HUB B Archdale SW Durham	N/A	N/A	N/A	N/A	0/0
0.9	HUB C Stadium Dr, N Durham	N/A	N/A	N/A	N/A	0/0
0.10	HUB D Creedmore	N/A	N/A	N/A	N/A	0/0
0.11	HUB	N/A	N/A	N/A	N/A	0/0
1.	South Main St.	42	11/4	A04	W1099	4/0
2.	Hibernia Rd	ped	23/4	A03C	H2060	3/3
3.	Hwy 561	09	11/2	A02	VV116	2/0
4.	Southern Mill Rd	83	20/2	A04	H288	3/0
5.	Pocket St	ped	11/4	A03C	XX030	3/3
6.	110 Hayworth	N/A	17/4	A036	CE019	4/0
7.	Hoover Rd. Pole in front of Cabinet Shop	N/A	17/4	A03	CY091	3/0
8.	Lavender	N/A	17/4	AC6B	DC157	3/2
9.	1538 Ravenwood	ped	23/4	AC0A	DD262	1/0
10.	Dixon Rd	ped	20/2	A06	DA54	1/3
11.	Arborfield Dr	ped	17/2	B02	DA08	2/0
12.	800 Oak Grove Pkwy	ped	11/2	A004	DA226	2/2
13.	10014 Adirondack	ped	11/4	A01B	CE083	4/0
14.	116 W Barbee Chapel	ped	11/4	A02	CB133	1/0
15.	New Hope	N/A	17/4	A03A	CE099	2/0
16.						
17.						
18.						
19.						
20.						



Test Points  
(Locations)

List of System Test Points Used

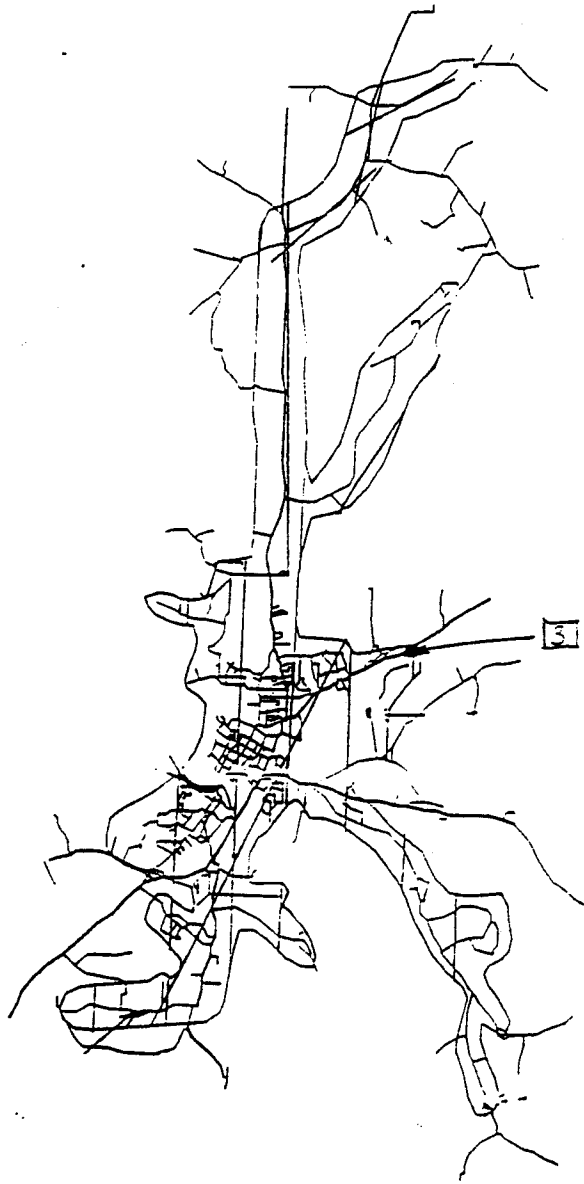
Test Point #	Location	Pole #	Tap Value	Nearest Amp. #	Cascade Node Name	Length (TB/LE)
0.1	HEADEND	N/A	N/A	N/A	N/A	0/0
0.2	HUB WW	N/A	N/A	N/A	N/A	0/0
0.3	HUB HZ	N/A	N/A	N/A	N/A	0/0
0.4	HUB VU	N/A	N/A	N/A	N/A	0/0
0.5	HUB HZ	N/A	N/A	N/A	N/A	0/0
0.6	HUB XX	N/A	N/A	N/A	N/A	0/0
0.7	HUB CY	N/A	N/A	N/A	N/A	0/0
0.8	HUB CY	N/A	N/A	N/A	N/A	0/0
0.9	HUB DC	N/A	N/A	N/A	N/A	0/0
0.10	HUB DD	N/A	N/A	N/A	N/A	0/0



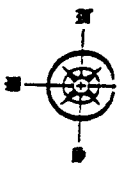
Test Point # 1  
South main St.

LEGEND	
	15.00dB to 12.01dB
	12.00dB to 9.01dB
	9.00dB to 6.01dB
	6.00dB to 3.01dB
	3.00dB to 0.01dB
	0.00dB to -2.99dB
	-3.00dB to -5.99dB
	-6.00dB to -20.99dB

Warrenton, NC . TWC  
 100% Samples below Ref.  
 12.2dB within Spec.  
 Test Date: 01-10-02  
 Job # 82-089  
**FLIGHT TRAC**

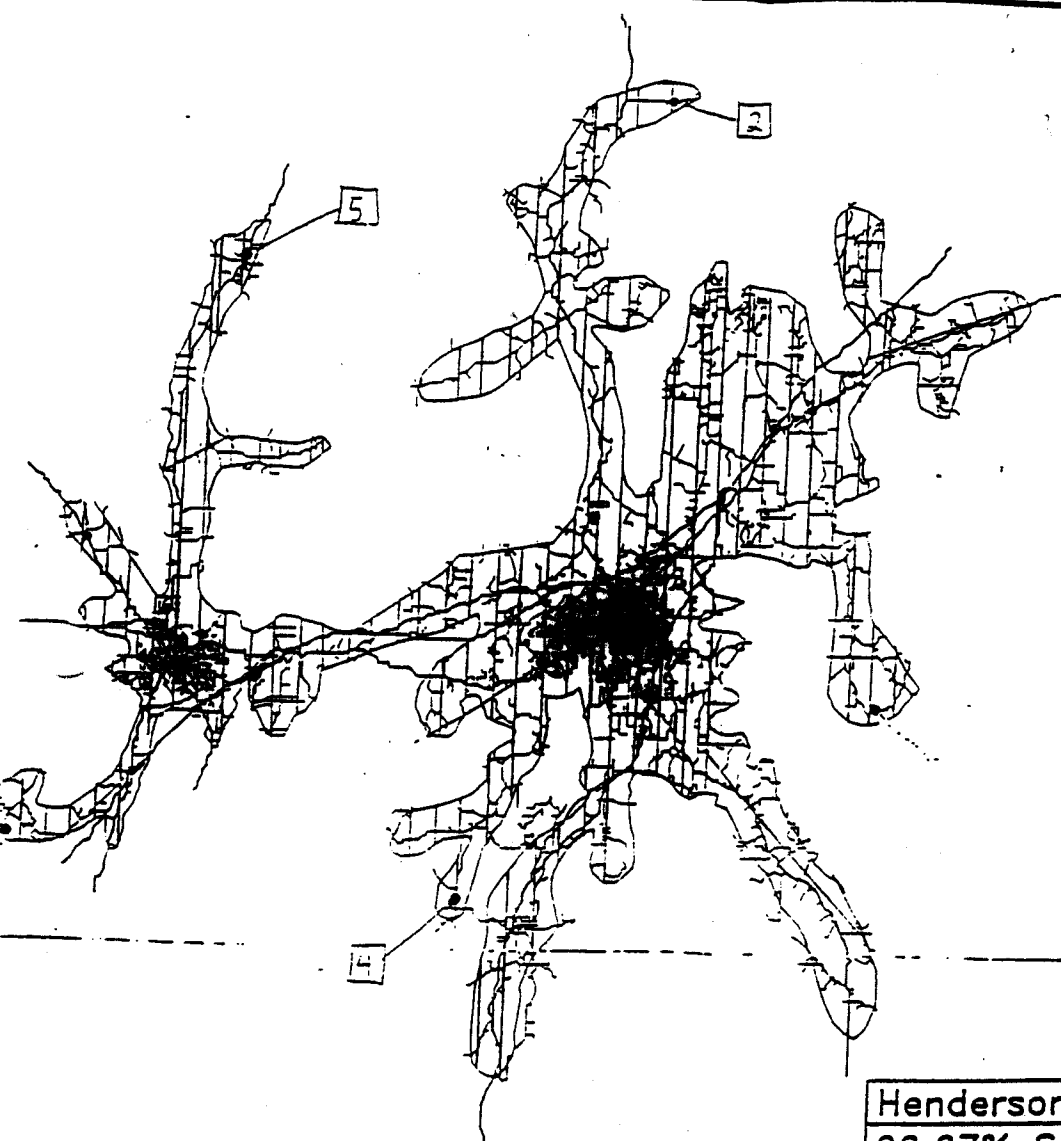
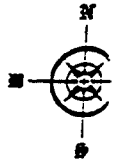


Test Point #3  
Hwy 561



LEGEND	
█	15.00dB to 12.01dB
█	12.00dB to 9.01dB
█	9.00dB to 6.01dB
█	6.00dB to 3.01dB
█	3.00dB to 0.01dB
█	0.00dB to -2.99dB
█	-3.00dB to -5.99dB
█	-6.00dB to -20.99dB

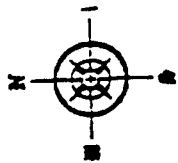
Louisburg, NC	TWC
100% Samples below Ref.	
12.2dB within Spec.	
Test Date: 01-10-02	
Job # 82-090	
<b>FLIGHT TRAC</b>	



Test Point #  
2 Hibernia Rd  
4 Southern Mill  
5 Puckett St.

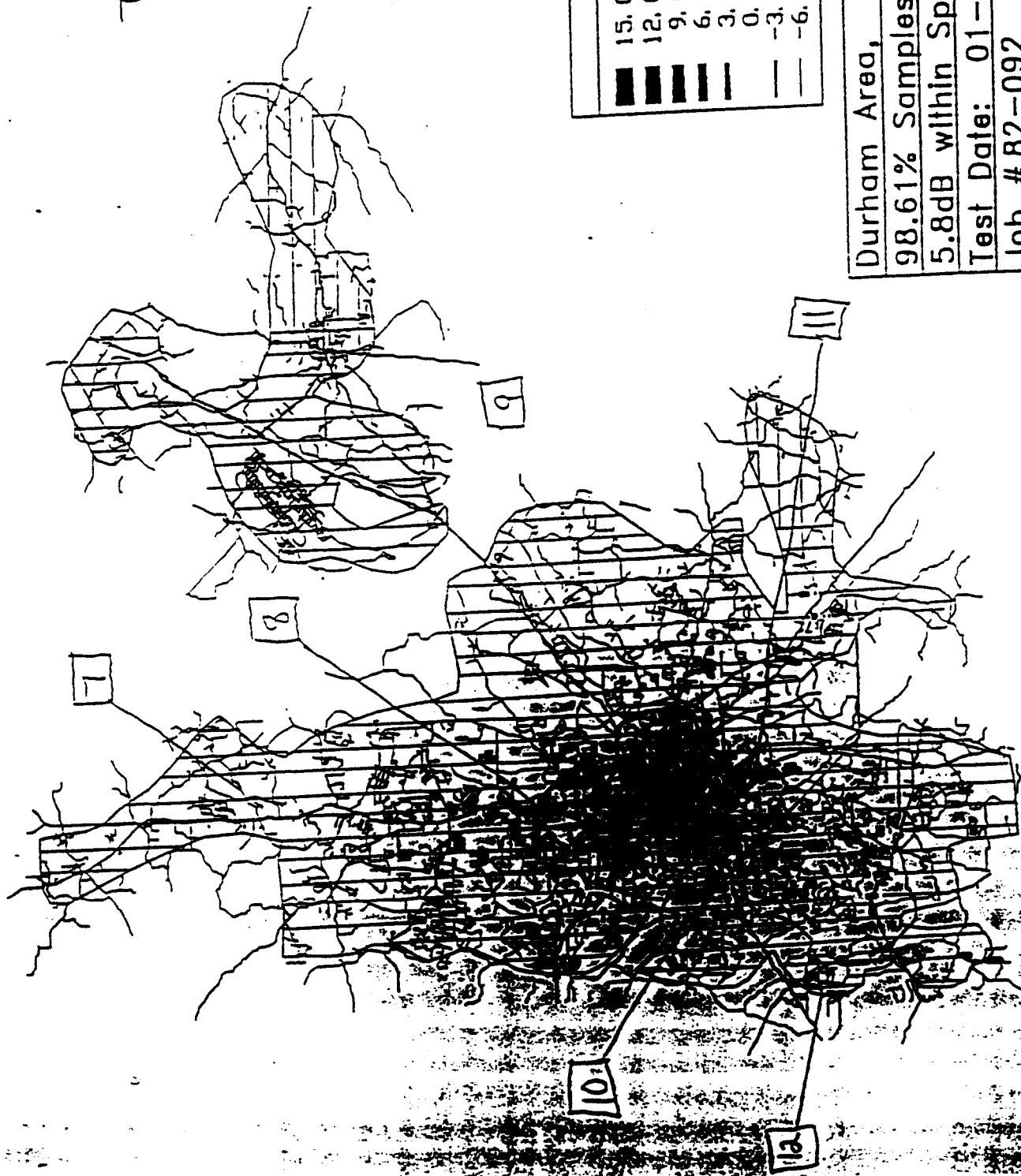
LEGEND	
■	15.00dB to 12.01dB
■	12.00dB to 9.01dB
■	9.00dB to 6.01dB
■	6.00dB to 3.01dB
■	3.00dB to 0.01dB
—	0.00dB to -2.99dB
—	-3.00dB to -5.99dB
—	-6.00dB to -20.99dB

Henderson, NC	TWC
99.97% Samples below Ref.	
9.0dB within Spec.	
Test Date: 01-10-02	
Job # 82-088	
<b>FLIGHT TRAC</b> INC	



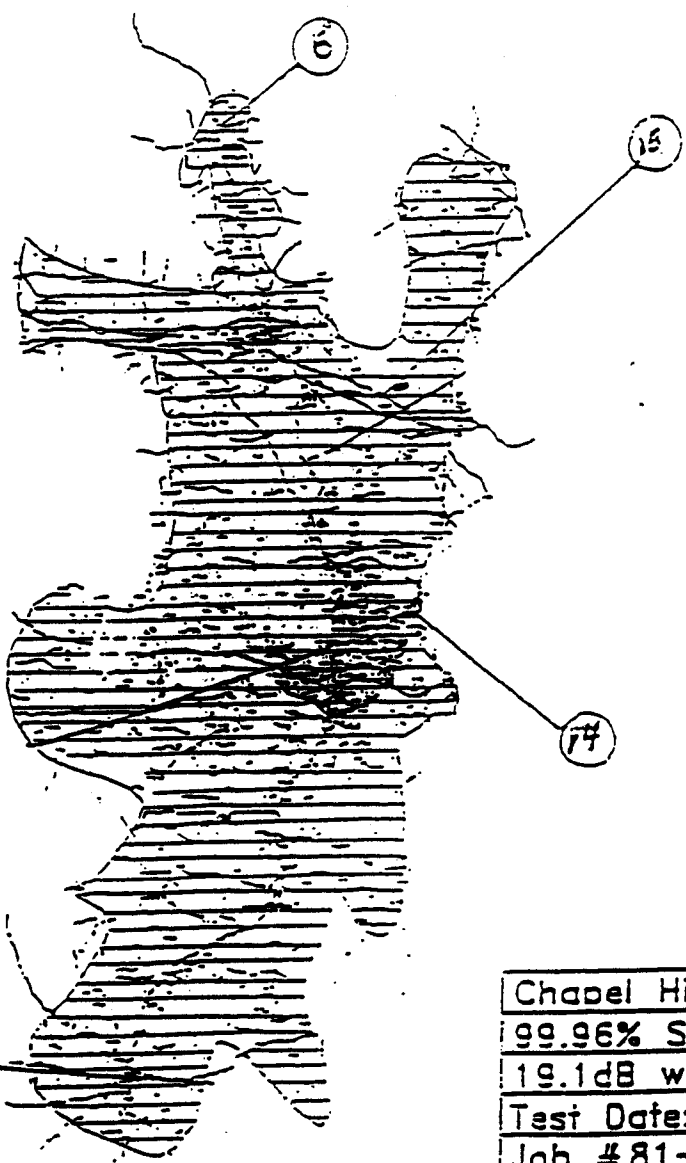
Testpoint #

- 7 Hoover Rd.
- 8 Lavender
- 9 Ravenwood
- 10 Dixon Rd.
- 11 Ankerfield



LEGEND	
■	15.00dB to 12.01dB
■	12.00dB to 9.01dB
■	9.00dB to 6.01dB
■	6.00dB to 3.01dB
■	3.00dB to 0.01dB
—	0.00dB to -2.99dB
—	-3.00dB to -5.99dB
—	-6.00dB to -20.99dB

Durham Area, NC TWC  
 98.61% Samples below Ref.  
 5.8dB within Spec.  
 Test Date: 01-12-02  
 Job # 82-092  
 TRAC



Test Point #  
 6 Hayworth  
 13 Adirondack  
 14 Barbee Ch.  
 15 New Hope

LEGEND		
	15.00dB to	12.01dB
	12.00dB to	9.01dB
	9.00dB to	6.01dB
	6.00dB to	3.01dB
	3.00dB to	0.01dB
	0.00dB to	-3.99dB
	-3.00dB to	-5.99dB
	-6.00dB to	-20.99dB

13

Chapel Hill, NC	TWC
99.96% Samples below Ref.	
19.1dB within Spec.	
Test Date: 02-13-01	
Job #81-133	
<b>FLIGHT TRAC</b>	
<b>INC</b>	



## **Channel Plan(s)**

Please place a Channel Plan here listing each and every “channel” on the system. Include both analog video channels, control channels such as-sweepor QPSK carriers, and FM carriers regardless of their operating level. For multi channel digital carriers (QAM Carriers) just indicate their frequency and that they carrier multi channel digital., There is no need to list each digital service. Also include upstream channel assignments for QPSK, cable modems and such.

For systems with more then one Channel Plan, please include a channel plans for each different area. As an example, there are typically different PEG channels for different Franchise Areas. When there are different Channel Plans indicate, generally, where each is used.

Indicate any carriers operating above 750 MHz or between 42 and 50 MHz. (Don’t forget to do frequency measurements on any of these channels or channel components in the aeronautical radiocommunication bans 118-137,225-328.6 and 335.4-400 MHz with an average power level equal to our greater then  $10^{-4}$  watts in a 25 kHz bandwidth in any 160 microsecond period, i.e, any video carriers in these frequency bands.)

A good starting point for Channel Lineups is:

<http://www.timewarnercable.com/CustomerService/CLU/TWCCLUs.ashx>

**Durham, Channel Plan**

Channel	Service	Channel	Service	Channel	Service
98	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WNCN-TV (NBC)	50	Fox Sports	79	Digital QAM
3	WRAL-TV (CBS)	51	Golf Channel	80	Digital QAM
4	EDUCATIONAL PROGRAM	52	BET	81	Digital QAM
5	WRAY-TV (IND)	53	MTV	82	Digital QAM
6	WTVD-TV (ABC)	54	TV Land	83	Digital QAM
7	HOME BUYERSCCHN	55	Oxygen	84	Digital QAM
8	COMMUNITY PROG	56	History Channel	85	Digital QAM
9	WUNC-TV (PBS)	57	Disney	86	Digital QAM
10	WLFL-TV (WB)	58	Fox News	87	Digital QAM
11	WUVC-TV	59	C-Span	88	Digital QAM
12	WRDC-TV (UPN)	60	C-SPAN -2	89	Digital QAM
13	WRAZ-TV (FOX)	61	Women's Entertainment	90	Digital QAM
14	NEWS 14	62	E!	91	Digital QAM
15	Home Shoping Net	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17	Unmodulated Carrier	65	Outdoor Life Network	94	Digital QAM
18	C-SPAN	66	ESPN Classic		
19	WRAY -N (IND)	67	Turner Classic Movies		
20	UNMOOULATED CARRIER	68	Fit TV	100	Digital QAM
21	WGN	69	CMT	101	Digital QAM
22	WRPX-TV(PAX)	70	National Geographic	102	Digital QAM
23		71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network	107	Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Canier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

**Upstream Carriers**

25 MHz QPSK Data Carrier  
 33 MHz Digital QAM

**Other**

52.5 MHz Sweep Signal

## CHAPEL HILL, Channel Plan

Channel	Service	Channel	Service	Channel	Service
98	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WNCN-TV (NBC)	50	Fox Sports	79	Digital QAM
3	WRAL-TV (CBS)	51	Golf Channel	80	Digital QAM
4	EDUCATIONAL PROGRAM	52	BET	81	Digital QAM
5	WRAY-TV (IND)	53	MTV	82	Digital QAM
6	WWO-TV (ABC)	54	TV Land	83	Digital QAM
7	HOME BWERSCCHN	55	Oxygen	84	Digital QAM
8	COMMUNITY PROG	56	History Channel	85	Digital QAM
9	WUNC-TV (PBS)	57	Disney	86	Digital QAM
10	WLF L-TV (WB)	58	Fox News	87	Digital QAM
11	WUVC-TV	59	C-Span	88	Digital QAM
12	WRDC-TV (UPN)	60	C-SPAN -2	89	Digital QAM
13	WRAZ-TV (FOX)	61	Women's Entertainment	90	Digital QAM
14	NEWS 14	62	E!	91	Digital QAM
15	Home Shopping Net	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17	Unmodulated Carrier	65	Outdoor Life Network	94	Digital QAM
18	GOV ACCESS /C-SPAN2	66	ESPN Classic		
19	BET	67	Turner Classic Movies		
20	UNMODULATED CARRIER	68	Fit TV	100	Digital QAM
21	WGN	69	CMT	101	Digital QAM
22	WRPX-TV (PAX)	70	National Geographic	102	Digital QAM
23		71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network	107	Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Carrier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

### Upstream Carriers

25 MHz	QPSK Data Carrier
33 MHz	Digital QAM

### Other

52.5 MHz	Sweep Signal
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## CARRBORO, Channel Plan

Channel	Service	Channel	Service	Channel	Service
98	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WFMY-TV (CBS)	50	Fox Sports	79	Digital QAM
3	WRAL-TV (CBS)	51	Golf Channel	80	Digital QAM
4		52	BET	81	Digital QAM
5	WGPH -N (ABC)	53	MTV	82	Digital QAM
6	WUNC-TV (PBS)	54	TV Land	83	Digital QAM
7	WRPX -N (PAX)	55	Oxygen	84	Digital QAM
8	WUVC -TV	56	History Channel	85	Digital QAM
9	WUNC-TV (PBS)	57	Disney	86	Digital QAM
10	WRDC-TV (UPN)	58	Fox News	87	Digital QAM
11	WRMZ-TV (FOX)	59	C-Span	88	Digital QAM
12	WLFL-TV (WB)	60	C-SPAN -2	89	Digital QAM
13	WTVD-TV (ABC)	61	Women's Entertainment	90	Digital QAM
14	NEWS 14	62	E!	91	Digital QAM
15	Home Shopping Net	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17	Unmodulated Carrier	65	Outdoor Life Network	94	Digital QAM
18	GOV ACCESS /C-SPAN2	66	ESPN Classic		
19	WRAY-TV (IND)	67	Turner Classic Movies		
20		68	Fit TV	100	Digital QAM
21	WGN	69	CMT	101	Digital QAM
22	BET	70	National Geographic	102	Digital QAM
23		71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network 107		Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Carrier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

### Upstream Carriers

25 MHz	QPSK Data Carrier
33 MHz	Digital QAM

### Other

52.5 MHz	Sweep Signal
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Henderson / Oxford / Warren / Louisbu

Channel	Service	Channel	Service	Channel	Service
A-1	TV Guide Channel	49	Sci-Fi	78	Digital QAM
2	WRPX-TV (PAX)	50	FoxSportsNET SOUTH	79	Digital QAM
3	WRDC-TV (UPN)	51	Golf Channel	80	Digital QAM
4	WUNC-TV (PBS)	52	BET	81	Digital QAM
5	WRAL-TV (CBS)	53	MTV	82	Digital QAM
6	TBS	54	TV Land	83	Digital QAM
7	WAXN-TV LP	55	Oxygen	84	Digital QAM
8	WNCN-TV (NBC)	56	History Channel	85	Digital QAM
9	WRAY-TV (IND)	57	Disney	86	Digital QAM
10	WLFL-TV (WB)	58	Fox News	87	Digital QAM
11	Govt. Access	59	C-Span	88	Digital QAM
12	WUVC-TV (UNIVISION)	60	Fit TV	89	Digital QAM
13	WRAZ-TV (FOX)	61	Women's Entertainment	90	Digital QAM
14	NEWS -14	62	E!	91	Digital QAM
15	HOME SHOPPING	63	SoapNet	92	Digital QAM
16	QVC	64	Shop NBC	93	Digital QAM
17		65	Outdoor Life Network	94	Digital QAM
18	Educational Access	66	ESPN Classic		
19	HOME BUYERS	67	Turner Classic Movies		
20		68	TBN	100	Digital QAM
21	C-SPAN -2	69	CMT	101	Digital QAM
22	COMMUNITY PROGRAMMING	70	National Geographic	102	Digital QAM
23	WGN	71	FX	103	Digital QAM
24	Triangle TV	72	EWTN/Inperational	104	Digital QAM
25	USA Network	73	Hallmark Channel	105	Digital QAM
26	TNT	74	Travel Channel	106	Digital QAM
27	A&E	75	Cartoon Network	107	Digital QAM
28	ABC Family Channel	76	HGTV	108	Digital QAM
29	CNN	77	TV Food	109	Digital QAM
30	Discovery Channel			110	Digital QAM
31	ESPN			111	Digital QAM
32	ESPN2			112	Digital QAM
33	Lifetime			113	Digital QAM
34	TBS			114	Digital QAM
35	Discovery Health			115	Digital QAM
36	Comedy Central			116	Unmodulated Carrier
37	CNBC			117	Digital QAM
38	AMC			118	Digital QAM
39	Learning Channel			119	Digital QAM
40	Spike TV				
41	Headline News				
42	Weather Channel				
43	Nickelodeon				
44	Court TV				
45	MSNBC				
46	Animal Planet				
47	Lifetime Movie Network				
48	VH1				

**Upstream Carriers**  
 25 MHz QPSK Data Carrier  
 33 MHz Digital QAM

**Other**  
 52.5 MHz Sweep Signal

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable.  
 Test Point Location: Durham  
 Date of Test: 7/28/05 Time: 10:00 AM  
 Tech(s) Performing Test: Phil Binaco

Highest Band Pass: 765 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>Agilent 8591C</u>	<u>3829A02949</u>	<u>May, 10, 05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.505 MHz-4.495 MHz)
2	55.2500	<u>55.2499</u>	55.2550	55.2450	<u>4.49</u>
3	61.2500	<u>61.2499</u>	61.2550	61.2450	<u>4.49</u>
4	67.2500	<u>67.2498</u>	67.2550	67.2450	<u>4.50</u>
	73.0000		N/A	N/A	N/A
<i>off set</i> * 5	77.2500	<u>77.2385</u>	77.2550	77.2450	<u>4.50</u>
6	83.2500	<u>83.2498</u>	83.2550	83.2450	<u>4.49</u>
6+1	89.2500	_____	89.2550	89.2450	_____
6+2	95.2500	_____	95.2550	95.2450	_____
6+3	101.2500	_____	101.2550	101.2450	_____
A-5	91.2500	_____	91.2550	91.2450	_____
A-4	97.2500	_____	97.2550	97.2450	_____
A-3	103.2500	_____	103.2550	103.2450	_____
A-2	109.2750	<u>109.270</u>	109.2800	109.2700	<u>4.50</u>
A-1	115.2750	_____	115.2800	115.2700	_____

\* - Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable  
 Test Point Location: Chapel Hill Line up  
 Date of Test: 7/28/05 Time: 11.00 AM  
 Tech(s) Performing Test: Phil Binaco

Highest Band Pa. 765 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>Agilent 8591C</u>	<u>3829A02949</u>	<u>05/10/05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	_____	55.2550	55.2450	_____
3	61.2500	_____	61.2550	61.2450	_____
4	67.2500	<u>67.249</u>	67.2550	67.2450	<u>4.50</u>
	73.0000	_____	N/A	N/A	N/A
5	77.2500	_____	77.2550	77.2450	_____
6	83.2500	_____	83.2550	83.2450	_____
6+1	89.2500	_____	89.2550	89.2450	_____
6+2	95.2500	_____	95.2550	95.2450	_____
6+3	101.2500	_____	101.2550	101.2450	_____
A-5	91.2500	_____	91.2550	91.2450	_____
A-4	97.2500	_____	97.2550	97.2450	_____
A-3	103.2500	_____	103.2550	103.2450	_____
A-2	109.2750	<u>109.275</u>	109.2800	109.2700	<u>4.50</u>
A-1	115.2750	_____	115.2800	115.2700	_____

\* - Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: Time Warner Cable

Test Point Location: Chapel Hill Lineup

Test Point Number: 0.1

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed *	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
14	121.2625		121.2675	121.2575	
15	127.2625		127.2675	127.2575	
16	133.2625		133.2675	133.2575	
17	139.2500		139.2550	139.2450	
18	145.2500	145.25	145.2550	145.2450	4.50
19	151.2500		151.2550	151.2450	
20	157.2500		157.2550	157.2450	
21	163.2500		163.2550	163.2450	
22	169.2500		169.2550	169.2450	
7	175.2500		175.2550	175.2450	
8	181.2500	181.249	181.2550	181.2450	4.495
9	187.2500		187.2550	187.2450	
10	193.2500		193.2550	193.2450	
11	199.2500		199.2550	199.2450	
12	205.2500		205.2550	204.2450	
13	211.2500		211.2550	211.2450	
23	217.2500		217.2550	217.2450	
24	223.2500		223.2550	223.2450	
25	229.2625		229.2675	229.2575	
26	235.2625		235.2675	235.2575	
27	241.2625		241.2675	241.2575	
28	247.2625		247.2675	247.2575	
29	253.2625		253.2675	253.2575	
30	259.2625		259.2675	259.2575	
31	265.2625		265.2675	265.2575	
32	271.2625		271.2675	271.2575	
33	277.2625		277.2675	277.2575	
34	283.2625		283.2675	283.2575	
35	289.2625		289.2675	289.2575	
36	295.2625		295.2675	295.2575	
37	301.2625		301.2675	301.2575	
38	307.2625		307.2675	307.2575	
39	313.2625		313.2675	313.2575	
40	319.2625		319.2675	319.2575	
41	325.2625		325.2675	325.2575	
42	331.2750		331.2800	331.2700	
43	337.2625		337.2675	337.2575	
44	343.2625		343.2675	343.2575	
45	349.2625		349.2675	349.2575	
46	355.2625		355.2675	355.2575	
47	361.2625		361.2675	361.2575	

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an uncompensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)



## Section 1 - Frequency Accuracy Test

Continued

System Name: Time Warner Cable

Test Point Location: Carrboro Line up

Test Point Number: 0.1

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625		367.2675	367.2575	
49	373.2625		373.2675	373.2575	
50	379.2625		379.2675	379.2575	
51	385.2625		385.2675	385.2575	
52	391.2625		391.2675	391.2575	
53	397.2625		397.2675	397.2575	
54	403.2500		403.2550	403.2450	
55	409.2500		409.2550	409.2450	
56	415.2500		415.2550	415.2450	
57	421.2500		421.2550	421.2450	
58	427.2500		427.2550	427.2450	
59	433.2500	<u>433.249</u>	433.2550	433.2450	<u>4.495</u>
60	439.2500		439.2550	439.2450	
61	445.2500		445.2550	445.2450	
62	451.2500		451.2550	451.2450	
63	457.2500		457.2550	457.2450	
64	463.2500		463.2550	463.2450	
65	469.2500		469.2550	469.2450	
66	475.2500		475.2550	475.2450	
67	481.2500		481.2550	481.2450	
68	487.2500		487.2550	487.2450	
69	493.2500		493.2550	493.2450	
70	499.2500		499.2550	499.2450	
71	505.2500		505.2550	499.2450	
72	511.2500		511.2550	499.2450	
73	517.2500		517.2550	499.2450	
74	523.2500		523.2550	499.2450	
75	529.2500		529.2550	499.2450	
76	535.2500		535.2550	499.2450	
77	541.2500		541.2550	499.2450	
78	547.2500		547.2550	499.2450	
79	553.2500		553.2550	499.2450	
80	559.2500		559.2550	499.2450	
81	565.2500		565.2550	499.2450	
82	571.2500		571.2550	499.2450	
83	577.2500		577.2550	499.2450	
84	583.2500		583.2550	499.2450	
85	589.2500		589.2550	499.2450	
86	595.2500		595.2550	499.2450	
87	601.2500		601.2550	499.2450	
116	745.2500		745.2550	745.2450	

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable  
 Test Point Location: Chapel Hill Line up  
 Date of Test: 9/28/05 Time: 11:00 AM  
 Tech(s) Performing Test: Phil B. WACO

Highest Band Pa. 765 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>Agilent 8591C</u>	<u>3829A02949</u>	<u>05/10/05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	_____	55.2550	55.2450	_____
3	61.2500	_____	61.2550	61.2450	_____
4	67.2500	<u>67.249</u>	67.2550	67.2450	<u>4.50</u>
	73.0000	_____	N/A	N/A	N/A
5	77.2500	_____	77.2550	77.2450	_____
6	83.2500	_____	83.2550	83.2450	_____
6+1	89.2500	_____	89.2550	89.2450	_____
6+2	95.2500	_____	95.2550	95.2450	_____
6+3	101.2500	_____	101.2550	101.2450	_____
A-5	91.2500	_____	91.2550	91.2450	_____
A-4	97.2500	_____	97.2550	97.2450	_____
A-3	103.2500	_____	103.2550	103.2450	_____
A-2	109.2750	<u>109.275</u>	109.2800	109.2700	<u>4.50</u>
A-1	115.2750	_____	115.2800	115.2700	_____

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

# Section 1 - Frequency Accuracy Test (Durham)

Continued

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
14	121.2625	<u>121.26</u>	121.2675	121.2575	<u>4.49</u>
15	127.2625	<u>127.26</u>	127.2675	127.2575	<u>4.49</u>
16	133.2625	<u>133.26</u>	133.2675	133.2575	<u>4.49</u>
17	139.2500	<u>139.250</u>	139.2550	139.2450	<u>4.50</u>
18	145.2500	<u>145.249</u>	145.2550	145.2450	<u>4.49</u>
19	151.2500	<u>151.249</u>	151.2550	151.2450	<u>4.50</u>
20	157.2500	<u>157.250</u>	157.2550	157.2450	<u>4.49</u>
21	163.2500	<u>163.249</u>	163.2550	163.2450	<u>4.49</u>
22	169.2500	<u>169.249</u>	169.2550	169.2450	<u>4.49</u>
7	175.2500	<u>175.249</u>	175.2550	175.2450	<u>4.50</u>
8	181.2500	<u>181.250</u>	181.2550	181.2450	<u>4.50</u>
9	187.2500	<u>187.249</u>	187.2550	187.2450	<u>4.49</u>
10	193.2500	<u>193.249</u>	193.2550	193.2450	<u>4.49</u>
* 11	199.2500	<u>199.263</u>	199.2550	199.2450	<u>4.49</u>
12	205.2500	<u>205.249</u>	205.2550	204.2450	<u>4.49</u>
13	211.2500	<u>211.249</u>	211.2550	211.2450	<u>4.49</u>
23	217.2500	—	217.2550	217.2450	—
24	223.2500	<u>223.249</u>	223.2550	223.2450	<u>4.50</u>
25	229.2625	<u>229.26</u>	229.2675	229.2575	<u>4.49</u>
26	235.2625	<u>235.26</u>	235.2675	235.2575	<u>4.50</u>
27	241.2625	<u>241.26</u>	241.2675	241.2575	<u>4.49</u>
28	247.2625	<u>247.26</u>	247.2675	247.2575	<u>4.49</u>
29	253.2625	<u>253.26</u>	253.2675	253.2575	<u>4.49</u>
30	259.2625	<u>259.26</u>	259.2675	259.2575	<u>4.49</u>
31	265.2625	<u>265.26</u>	265.2675	265.2575	<u>4.50</u>
32	271.2625	<u>271.26</u>	271.2675	271.2575	<u>4.50</u>
33	277.2625	<u>277.26</u>	277.2675	277.2575	<u>4.50</u>
34	283.2625	<u>283.26</u>	283.2675	283.2575	<u>4.49</u>
35	289.2625	<u>289.26</u>	289.2675	289.2575	<u>4.49</u>
36	295.2625	<u>295.26</u>	295.2675	295.2575	<u>4.49</u>
37	301.2625	<u>301.26</u>	301.2675	301.2575	<u>4.50</u>
38	307.2625	<u>307.26</u>	307.2675	307.2575	<u>4.49</u>
39	313.2625	<u>313.26</u>	313.2675	313.2575	<u>4.49</u>
40	319.2625	<u>319.26</u>	319.2675	319.2575	<u>4.49</u>
41	325.2625	<u>325.26</u>	325.2675	325.2575	<u>4.50</u>
42	331.2750	<u>331.27</u>	331.2800	331.2700	<u>4.50</u>
43	337.2625	<u>337.26</u>	337.2675	337.2575	<u>4.49</u>
44	343.2625	<u>343.26</u>	343.2675	343.2575	<u>4.49</u>
45	349.2625	<u>349.26</u>	349.2675	349.2575	<u>4.49</u>
46	355.2625	<u>355.26</u>	355.2675	355.2575	<u>4.50</u>
47	361.2625	<u>361.26</u>	361.2675	361.2575	<u>4.49</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test (Durham)

Continued

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625	<u>367.26</u>	367.2675	367.2575	<u>4.49</u>
49	373.2625	<u>373.26</u>	373.2675	373.2575	<u>4.50</u>
50	379.2625	<u>379.26</u>	379.2675	379.2575	<u>4.49</u>
51	385.2625	<u>385.26</u>	385.2675	385.2575	<u>4.50</u>
52	391.2625	—	391.2675	391.2575	—
53	397.2625	<u>397.26</u>	397.2675	397.2575	<u>4.50</u>
54	403.2500	<u>403.248</u>	403.2550	403.2450	<u>4.50</u>
55	409.2500	<u>409.248</u>	409.2550	409.2450	<u>4.49</u>
56	415.2500	<u>415.248</u>	415.2550	415.2450	<u>4.50</u>
57	421.2500	<u>421.250</u>	421.2550	421.2450	<u>4.49</u>
58	427.2500	<u>427.24</u>	427.2550	427.2450	<u>4.49</u>
59	433.2500	—	433.2550	433.2450	—
60	439.2500	<u>439.248</u>	439.2550	439.2450	<u>4.49</u>
61	445.2500	<u>445.248</u>	445.2550	445.2450	<u>4.49</u>
62	451.2500	<u>451.249</u>	451.2550	451.2450	<u>4.50</u>
63	457.2500	<u>457.249</u>	457.2550	457.2450	<u>4.50</u>
64	463.2500	<u>463.249</u>	463.2550	463.2450	<u>4.49</u>
65	469.2500	<u>469.248</u>	469.2550	469.2450	<u>4.49</u>
66	475.2500	<u>475.250</u>	475.2550	475.2450	<u>4.50</u>
67	481.2500	<u>481.250</u>	481.2550	481.2450	<u>4.49</u>
68	487.2500	<u>487.248</u>	487.2550	487.2450	<u>4.49</u>
69	493.2500	<u>493.249</u>	493.2550	493.2450	<u>4.49</u>
70	499.2500	<u>499.2477</u>	499.2550	499.2450	<u>4.49</u>
71	505.2500	<u>505.249</u>	505.2550	499.2450	<u>4.49</u>
72	511.2500	<u>511.249</u>	511.2550	499.2450	<u>4.49</u>
73	517.2500	<u>517.250</u>	517.2550	499.2450	<u>4.49</u>
74	523.2500	<u>523.249</u>	523.2550	499.2450	<u>4.49</u>
75	529.2500	<u>529.249</u>	529.2550	499.2450	<u>4.50</u>
76	535.2500	<u>535.250</u>	535.2550	499.2450	<u>4.50</u>
77	541.2500	<u>541.250</u>	541.2550	499.2450	<u>4.49</u>
78	547.2500	—	547.2550	499.2450	—
79	553.2500	—	553.2550	499.2450	—
80	559.2500	—	559.2550	499.2450	—
81	565.2500	—	565.2550	499.2450	—
82	571.2500	—	571.2550	499.2450	—
83	577.2500	—	577.2550	499.2450	—
84	583.2500	—	583.2550	499.2450	—
85	589.2500	—	589.2550	499.2450	—
86	595.2500	—	595.2550	499.2450	—
87	601.2500	—	601.2550	499.2450	—
116	745.2500	<u>745.25</u>	745.2550	745.2450	<u>4.49</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

# Section 1 - Frequency Accuracy Test

## I-Net or other "Special" Signals

System Name: DURHAM  
 Test Point Location: CREEDMORE HUB D.

Test Point Number: 0.4

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
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Location: <u>Hub D ch 17</u>	<u>189.25</u>	<u>189.2503</u>			<u>4.500</u>
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____
Location: _____	_____	_____	_____	_____	_____

## Section 1 - Frequency Accuracy Test

System Name: Time Warner Cable  
 Test Point Location: Henderson Line up @ WUBA  
 Date of Test: Aug 2, 2005 Time: 10:30 AM  
 Tech(s) Performing Test: Jerome Kelly

Highest Band Pass: 750 MHz  
 Test Point Number: 0.1  
 Temperature: 70°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	Agilent 8591C	3329A02949	05/10/05
Frequency Counter			
Variable Attenuator			
Band Pass Filter 1			N/A
Band Pass Filter 2			N/A

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	55.2499	55.2550	55.2450	4.500
3	61.2500	61.2501	61.2550	61.2450	4.500
4	67.2500	67.2501	67.2550	67.2450	4.500
	73.0000		N/A	N/A	N/A
5	77.2500		77.2550	77.2450	
6	83.2500		83.2550	83.2450	
6+1	89.2500		89.2550	89.2450	
6+2	95.2500		95.2550	95.2450	
6+3	101.2500		101.2550	101.2450	
A-5	91.2500		91.2550	91.2450	
A-4	97.2500		97.2550	97.2450	
A-3	103.2500		103.2550	103.2450	
A-2	109.2750		109.2800	109.2700	
A-1	115.2750		115.2800	115.2700	

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: TIME WARNER CABLE

Test Point Location: HENDERSON LINEUP @ HUB A

Test Point Number: 0.1

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625		367.2675	367.2575	
49	373.2625		373.2675	373.2575	
50	379.2625		379.2675	379.2575	
51	385.2625		385.2675	385.2575	
52	391.2625	<u>391.2624</u>	391.2675	391.2575	<u>4.500</u>
53	397.2625		397.2675	397.2575	
54	403.2500		403.2550	403.2450	
55	409.2500		409.2550	409.2450	
56	415.2500		415.2550	415.2450	
57	421.2500		421.2550	421.2450	
58	427.2500		427.2550	427.2450	
59	433.2500	<u>433.2496</u>	433.2550	433.2450	<u>4.500</u>
60	439.2500	<u>439.2496</u>	439.2550	439.2450	<u>4.500</u>
61	445.2500	<u>445.2490</u>	445.2550	445.2450	<u>4.500</u>
62	451.2500		451.2550	451.2450	
63	457.2500		457.2550	457.2450	
64	463.2500		463.2550	463.2450	
65	469.2500		469.2550	469.2450	
66	475.2500		475.2550	475.2450	
67	481.2500		481.2550	481.2450	
68	487.2500	<u>487.2494</u>	487.2550	487.2450	<u>4.500</u>
69	493.2500		493.2550	493.2450	
70	499.2500		499.2550	499.2450	
71	505.2500		505.2550	499.2450	
72	511.2500		511.2550	499.2450	
73	517.2500		517.2550	499.2450	
74	523.2500		523.2550	499.2450	
75	529.2500		529.2550	499.2450	
76	535.2500		535.2550	499.2450	
77	541.2500		541.2550	499.2450	
78	547.2500		547.2550	499.2450	
79	553.2500		553.2550	499.2450	
80	559.2500		559.2550	499.2450	
81	565.2500		565.2550	499.2450	
82	571.2500		571.2550	499.2450	
83	577.2500		577.2550	499.2450	
84	583.2500		583.2550	499.2450	
85	589.2500		589.2550	499.2450	
86	595.2500		595.2550	499.2450	
87	601.2500		601.2550	499.2450	
116	745.2500		745.2550	745.2450	

\* - Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

System Name: HENDERSON  
 Test Point Location: HUB 22  
 Date of Test: 7/29/05 Time: 8:05 AM  
 Tech(s) Performing Test: JIM VORNDRAN

Highest Band Pass: 765 MHz  
 Test Point Number: 0.10  
 Temperature: 75°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3543A01171</u>	<u>1/24/05</u>
Frequency Counter	_____	_____	_____
Variable Attenuator	_____	_____	_____
Band Pass Filter 1	_____	_____	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup Used:** A drop from the test point is feed to the Frequency Counter Equipment. If needed, a band pass filter is used in addition to any built in band pass filter for selection of the carrier. Measure and record the video carrier frequency then measure the difference between the Audio and Video Carrier frequency and record the results.

All channel carriers should be +/- 5 kHz of the assigned frequency unless the carrier is operating outside the 108 to 137 and 225 to 400 MHz bands AND the input or "off-air" signal is offset +/- 10 kHz. Indicate any "off-set" signals in the results with the "\*" sign.

The Audio Carrier Frequency is to be maintained at 4.5 MHz +/- 5 kHz above the video carrier.

This test must be performed on a minimum of four channels plus one additional channel for every 100 MHz, or fraction thereof, of forward bandwidth. As a good engineering practice we will perform this test on each NTSC channel on the forward system at the Headend. Additionally, all I-Net NTSC video channels or other carriers operating in the 108 to 137 and 225 to 400 MHz bands must be tested to ensure their operating frequency maintains a tolerance of +/- 5 kHz from the assigned frequency.

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
2	55.2500	<u>55.2499</u>	55.2550	55.2450	<u>4.4999</u>
3	61.2500	<u>61.2500</u>	61.2550	61.2450	<u>4.4999</u>
4	67.2500	<u>67.2501</u>	67.2550	67.2450	<u>4.5000</u>
	73.0000		N/A	N/A	N/A
5	77.2500	<u>77.2508</u>	77.2550	77.2450	<u>4.5000</u>
6	83.2500		83.2550	83.2450	
6+1	89.2500		89.2550	89.2450	
6+2	95.2500		95.2550	95.2450	
6+3	101.2500		101.2550	101.2450	
A-5	91.2500		91.2550	91.2450	
A-4	97.2500		97.2550	97.2450	
A-3	103.2500		103.2550	103.2450	
A-2	109.2750		109.2800	109.2700	
A-1	115.2750	<u>115.2751</u>	115.2800	115.2700	<u>4.4999</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)



## Section 1 - Frequency Accuracy Test

Continued

System Name: HENDERSON

Test Point Location: HUB 22

Test Point Number: 0.16

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
14	121.2625	<u>121.2624</u>	121.2675	121.2575	<u>4.5000</u>
15	127.2625	<u>127.2624</u>	127.2675	127.2575	<u>4.4999</u>
16	133.2625	<u>133.2624</u>	133.2675	133.2575	<u>4.5001</u>
17	139.2500	<u>139.2498</u>	139.2550	139.2450	<u>4.5001</u>
18	145.2500	<u>145.2499</u>	145.2550	145.2450	<u>4.5000</u>
19	151.2500	<u>151.2498</u>	151.2550	151.2450	<u>4.5001</u>
20	157.2500	<u>157.2503</u>	157.2550	157.2450	<u>4.5000</u>
21	163.2500	<u>163.2497</u>	163.2550	163.2450	<u>4.4999</u>
22	169.2500	<u>169.2498</u>	169.2550	169.2450	<u>4.5000</u>
7	175.2500	<u>175.2499</u>	175.2550	175.2450	<u>4.5000</u>
8	181.2500	<u>181.2501</u>	181.2550	181.2450	<u>4.4999</u>
* 9	187.2500	<u>187.2394</u>	187.2550	187.2450	<u>4.5000</u>
10	193.2500	<u>193.2495</u>	193.2550	193.2450	<u>4.4999</u>
11	199.2500	<u>199.2497</u>	199.2550	199.2450	<u>4.5000</u>
* 12	205.2500	<u>205.2623</u>	205.2550	204.2450	<u>4.5000</u>
13	211.2500	<u>211.2494</u>	211.2550	211.2450	<u>4.4999</u>
23	217.2500	<u>217.2495</u>	217.2550	217.2450	<u>4.5000</u>
24	223.2500	<u>223.2499</u>	223.2550	223.2450	<u>4.5001</u>
25	229.2625	<u>229.2623</u>	229.2675	229.2575	<u>4.5000</u>
26	235.2625	<u>235.2625</u>	235.2675	235.2575	<u>4.4999</u>
27	241.2625	<u>241.2624</u>	241.2675	241.2575	<u>4.4998</u>
28	247.2625	<u>247.2624</u>	247.2675	247.2575	<u>4.4999</u>
29	253.2625	<u>253.2624</u>	253.2675	253.2575	<u>4.5001</u>
30	259.2625	<u>259.2624</u>	259.2675	259.2575	<u>4.5000</u>
31	265.2625	<u>265.2622</u>	265.2675	265.2575	<u>4.4998</u>
32	271.2625	<u>271.2622</u>	271.2675	271.2575	<u>4.4999</u>
33	277.2625	<u>277.2622</u>	277.2675	277.2575	<u>4.4999</u>
34	283.2625	<u>283.2622</u>	283.2675	283.2575	<u>4.5000</u>
35	289.2625	<u>289.2628</u>	289.2675	289.2575	<u>4.5000</u>
36	295.2625	<u>295.2622</u>	295.2675	295.2575	<u>4.5001</u>
37	301.2625	<u>301.2621</u>	301.2675	301.2575	<u>4.5001</u>
38	307.2625	<u>307.2625</u>	307.2675	307.2575	<u>4.4998</u>
39	313.2625	<u>313.2621</u>	313.2675	313.2575	<u>4.5001</u>
40	319.2625	<u>319.2622</u>	319.2675	319.2575	<u>4.4999</u>
41	325.2625	<u>325.2622</u>	325.2675	325.2575	<u>4.4999</u>
42	331.2750	<u>331.2742</u>	331.2800	331.2700	<u>4.4997</u>
43	337.2625	<u>337.2622</u>	337.2675	337.2575	<u>4.4999</u>
44	343.2625	<u>343.2615</u>	343.2675	343.2575	<u>4.4998</u>
45	349.2625	<u>349.2623</u>	349.2675	349.2575	<u>4.4999</u>
46	355.2625	<u>355.2622</u>	355.2675	355.2575	<u>4.4999</u>
47	361.2625	<u>361.2622</u>	361.2675	361.2575	<u>4.4998</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

Continued

System Name: HENDERSON

Test Point Location: HUB 22

Test Point Number: 0.10

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
48	367.2625	<u>367.2622</u>	367.2675	367.2575	<u>4.4999</u>
49	373.2625	<u>373.2618</u>	373.2675	373.2575	<u>4.5001</u>
50	379.2625	<u>379.2618</u>	379.2675	379.2575	<u>4.4999</u>
51	385.2625	<u>385.2618</u>	385.2675	385.2575	<u>4.5001</u>
52	391.2625	<u>391.2621</u>	391.2675	391.2575	<u>4.4998</u>
53	397.2625	<u>397.2617</u>	397.2675	397.2575	<u>4.4998</u>
54	403.2500	<u>403.2493</u>	403.2550	403.2450	<u>4.5001</u>
55	409.2500	<u>409.2492</u>	409.2550	409.2450	<u>4.4999</u>
56	415.2500	<u>415.2492</u>	415.2550	415.2450	<u>4.5001</u>
57	421.2500	<u>421.2506</u>	421.2550	421.2450	<u>4.5000</u>
58	427.2500	<u>427.2493</u>	427.2550	427.2450	<u>4.4998</u>
59	433.2500	<u>433.2496</u>	433.2550	433.2450	<u>4.5000</u>
60	439.2500	<u>439.2497</u>	439.2550	439.2450	<u>4.5000</u>
61	445.2500	<u>445.2487</u>	445.2550	445.2450	<u>4.4998</u>
62	451.2500	<u>451.2494</u>	451.2550	451.2450	<u>4.5001</u>
63	457.2500	<u>457.2493</u>	457.2550	457.2450	<u>4.4999</u>
64	463.2500	<u>463.2498</u>	463.2550	463.2450	<u>4.4998</u>
65	469.2500	<u>469.2497</u>	469.2550	469.2450	<u>4.5000</u>
66	475.2500	<u>475.2504</u>	475.2550	475.2450	<u>4.5000</u>
67	481.2500	<u>481.2499</u>	481.2550	481.2450	<u>4.5000</u>
68	487.2500	<u>487.2495</u>	487.2550	487.2450	<u>4.5001</u>
69	493.2500	<u>493.2494</u>	493.2550	493.2450	<u>4.5001</u>
70	499.2500	<u>499.2484</u>	499.2550	499.2450	<u>4.5000</u>
71	505.2500	<u>505.2494</u>	505.2550	499.2450	<u>4.4999</u>
72	511.2500	<u>511.2507</u>	511.2550	499.2450	<u>4.4998</u>
73	517.2500	<u>517.2507</u>	517.2550	499.2450	<u>4.5000</u>
74	523.2500	<u>523.2493</u>	523.2550	499.2450	<u>4.4998</u>
75	529.2500	<u>529.2493</u>	529.2550	499.2450	<u>4.5000</u>
76	535.2500	<u>535.2506</u>	535.2550	499.2450	<u>4.5000</u>
77	541.2500	<u>541.2505</u>	541.2550	499.2450	<u>4.5000</u>
78	547.2500		547.2550	499.2450	
79	553.2500		553.2550	499.2450	
80	559.2500		559.2550	499.2450	
81	565.2500		565.2550	499.2450	
82	571.2500		571.2550	499.2450	
83	577.2500		577.2550	499.2450	
84	583.2500		583.2550	499.2450	
85	589.2500		589.2550	499.2450	
86	595.2500		595.2550	499.2450	
87	601.2500		601.2550	499.2450	
116	745.2500	<u>745.2508</u>	745.2550	745.2450	<u>4.5000</u>

\* = Indicates an "off-air" channel with an offset of + or - 10 KHz. being processed on to the system by a processor having an un-compensated input IF stage. (This type of processor cannot be used in the 108 to 137 and 225 to 400 MHz band.)

## Section 1 - Frequency Accuracy Test

### I-Net or other "Special" Signals

System Name: BLANK, CARRIERS / LOCAL INSERTIONS

Test Point Location: Oxford xx, WARREN WW, LOUISBURG VV Test Point Number: VARIOUS

Ch	Assigned Frequency	Measured Frequency	Maximum Frequency Allowed	Minimum Frequency Allowed	Measured Audio Frequency (4.495 MHz-4.505 MHz)
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Location: HUB XX TP 0.9

17	139.2500	139.2499	139.2550	139.2450	4.5001
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Location: HUB WW TP 0.8

17	139.2500	139.2531	139.2550	139.2450	4.5000
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Location: HUB VV TP 0.7

17	139.2500	139.2517	139.2550	139.2450	4.5000
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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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Location: \_\_\_\_\_

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## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER Cable DURHAM  
 Test Point Location: HEADEND - HUB A  
 Date of Test: Aug 2, 2005 Time: 2:00 P.M  
 Tech(s) Performing Test: JEROME Kelly

Highest Band Pass: 765 MHZ  
 Test Point Number: 0.1  
 Temperature: 70.°

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115A04957</u>	<u>8/08/05</u>
Pre-Amplifier	<u>TEKLITHIC AM1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TEKLITHIC VF4 42</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances				C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO CM		
<u>2</u>				<u>78</u>	<u>64.0</u>	<u>0.4</u>
<u>5</u>				<u>73</u>	<u>58.9</u>	
<u>12</u>				<u>72.2</u>	<u>57.0</u>	
<u>16</u>				<u>69.2</u>	<u>59.9</u>	
<u>26</u>				<u>76.9</u>	<u>55.0</u>	
<u>29</u>				<u>72.7</u>	<u>60.0</u>	
<u>34</u>				<u>72.9</u>	<u>53.0</u>	
<u>51</u>				<u>75</u>	<u>57.9</u>	
<u>57</u>				<u>79</u>	<u>60.2</u>	
<u>64</u>				<u>84</u>	<u>59.1</u>	
<u>75</u>				<u>73.</u>	<u>54.9</u>	
116				<u>74.</u>	<u>55.0</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER Cable, DURHAM, NC  
 Test Point Location: HUB B, ARCHDALE DR  
 Date of Test: Aug 4, 2005 Time: 11:00 A.M.  
 Tech(s) Performing Test: JEROME Kelly

Highest Band Pass: 765 MHz  
 Test Point Number: C-2  
 Temperature: 70°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITHIC VF4-22</u>	<u>9809081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances				C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO CM		
<u>2</u>				<u>73.4</u>	<u>58.1</u>	<u>0.5</u>
<u>5</u>				<u>77.9</u>	<u>57.2</u>	
<u>12</u>				<u>76.5</u>	<u>57.0</u>	
<u>16</u>				<u>76.2</u>	<u>52.9</u>	
<u>26</u>				<u>79.0</u>	<u>59.0</u>	
<u>29</u>				<u>75.8</u>	<u>55.0</u>	
<u>34</u>				<u>80.2</u>	<u>57.8</u>	
<u>51</u>				<u>75.6</u>	<u>57.5</u>	
<u>57</u>				<u>74.7</u>	<u>53.7</u>	
<u>64</u>				<u>74.1</u>	<u>59.0</u>	
<u>75</u>				<u>80</u>	<u>56.0</u>	
116				<u>69</u>	<u>51.1</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER CABLE DUBLIN  
 Test Point Location: HUB C STADIUM DR.  
 Date of Test: AUG 4, 2005 Time: 2:00 PM  
 Tech(s) Performing Test: JEROME KELLY

Highest Band Pass: 765 MHz  
 Test Point Number: 0.3  
 Temperature: 70.0

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>41157A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM 1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITHIC VF-4-xx</u>	<u>9009081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>				<u>72.0</u>		<u>56.4</u>	<u>0.4</u>
<u>5</u>				<u>75.1</u>			
<u>12</u>				<u>76.4</u>		<u>56.4</u>	
<u>16</u>				<u>76.4</u>		<u>55.8</u>	
<u>26</u>				<u>73.4</u>		<u>55.0</u>	
<u>29</u>				<u>71.0</u>		<u>53.0</u>	
<u>34</u>				<u>73.3</u>		<u>56.3</u>	
<u>51</u>				<u>66.5</u>		<u>50.0</u>	
<u>57</u>				<u>73.8</u>		<u>58.1</u>	
<u>64</u>				<u>71.6</u>		<u>56.4</u>	
<u>75</u>				<u>74.4</u>		<u>58.4</u>	
116				<u>77.0</u>		<u>55.6</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER CABLE, DURHAM, NC      Highest Band Pass: 765 MHz  
 Test Point Location: HUB D, CREEDMORE, NC      Test Point Number: 0.4  
 Date of Test: AUG 3, 2005      Time: 15:30      Temperature: 70°  
 Tech(s) Performing Test: JEROME KELLY

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115 A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM-1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>VF-4-XX</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viiii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>					<u>75.1</u>	<u>59.5</u>	<u>0.4</u>
<u>5</u>					<u>81.2</u>	<u>59.0</u>	
<u>12</u>					<u>73.2</u>	<u>56.4</u>	
<u>16</u>					<u>77.4</u>	<u>56.5</u>	
<u>26</u>					<u>78.9</u>	<u>56.0</u>	
<u>29</u>					<u>75.2</u>	<u>52.0</u>	
<u>34</u>					<u>73.3</u>	<u>52.0</u>	
<u>51</u>					<u>68.5</u>	<u>50.0</u>	
<u>57</u>					<u>72.0</u>	<u>56.9</u>	
<u>64</u>					<u>76.7</u>	<u>56.7</u>	
<u>75</u>					<u>71.3</u>	<u>55.4</u>	
116					<u>72.5</u>	<u>52.0</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER CABLE, DURHAM, NC  
 Test Point Location: HUB E, South Chapel Hill, NC  
 Date of Test: Aug 3, 2005 Time: 09:30 AM  
 Tech(s) Performing Test: JEROME KELLY

Highest Band Pass: 765 MHz  
 Test Point Number: 0.5  
 Temperature: 70.0

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP8591C</u>	<u>4115A04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRILITHIC AM-1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITHIC VF-4-VV</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>					<u>72</u>		<u>0.4</u>
<u>5</u>					<u>72</u>		
<u>12</u>					<u>73</u>		
<u>16</u>					<u>74</u>		
<u>26</u>					<u>76.7</u>		
<u>29</u>					<u>80.0</u>		
<u>34</u>					<u>76.5</u>		
<u>51</u>					<u>72.0</u>		
<u>57</u>					<u>68.9</u>		
<u>64</u>					<u>70.7</u>		
<u>75</u>					<u>74.0</u>		
<u>116</u>					<u>75.2</u>		



## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: TIME WARNER Cable, Durham, NC  
 Test Point Location: HUB Y, OLD HW 87, Hillsboro  
 Date of Test: Aug 3, 2005 Time: 11:30  
 Tech(s) Performing Test: JEROME KELLY

Highest Band Pass: 765 MHz  
 Test Point Number: 0.6  
 Temperature: 70

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>4115A 04957</u>	<u>4/08/05</u>
Pre-Amplifier	<u>TRULITHIC AM1000</u>	<u>200318015</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRULITHIC VF-4-2x</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peek level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>					<u>75.9</u>		<u>0.3</u>
<u>5</u>					<u>76.7</u>		
<u>12</u>					<u>71.6</u>		
<u>16</u>					<u>74.4</u>		
<u>26</u>					<u>74.4</u>		
<u>29</u>					<u>75.0</u>		
<u>34</u>					<u>76.0</u>		
<u>51</u>					<u>76.5</u>		
<u>57</u>					<u>76.6</u>		
<u>64</u>					<u>69.4</u>		
<u>75</u>					<u>68.0</u>		
116					<u>71.7</u>		<u>52.3</u>

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON  
 Test Point Location: HUB 22  
 Date of Test: 7/29/05 Time: 9:30 AM  
 Tech(s) Performing Test: JIM VORNDRAN

Highest Band Pass: 765 MHz  
 Test Point Number: 0.10  
 Temperature: 75°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3543A01171</u>	<u>1/24/05</u>
Pre-Amplifier	<u>CHAS 962-4205</u>	<u>0227654</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>TRILITIK VF-5-XX</u>	<u>9705011</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances						C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM			
<u>2</u>	<u>1.02</u>	<u>67</u>				<u>53.5</u>	<u>0.5</u>	
<u>4</u>	<u>0.96</u>	<u>72</u>				<u>53.4</u>		
<u>16</u>	<u>1.48</u>	<u>65</u>				<u>52.2</u>		
<u>10</u>	<u>0.87</u>	<u>71</u>				<u>58.0</u>		
<u>26</u>	<u>1.53</u>	<u>69</u>				<u>53.2</u>		
<u>29</u>	<u>1.36</u>	<u>71</u>				<u>51.9</u>		
<u>34</u>	<u>1.56</u>	<u>70</u>				<u>51.4</u>		
<u>51</u>	<u>0.64</u>	<u>63</u>				<u>50.7</u>		
<u>59</u>	<u>0.70</u>	<u>68</u>				<u>56.4</u>		
<u>64</u>	<u>1.20</u>	<u>69</u>				<u>51.2</u>		
<u>75</u>	<u>1.08</u>	<u>68</u>				<u>53.1</u>		
116	<u>1.04</u>	<u>68</u>				<u>52.5</u>		

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHz

Test Point Location: S. Main ST. Warren Ton

Test Point Number: 1

Date of Test: 8/11/05 Time: 2:15 PM

Temperature: 95°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.27	63				47.1	
4	1.20	60				48	
10	1.26	65				48.9	
12	1.27	62				49.1	
26	1.24	57				48.6	
29	1.23	65				48.3	
34	1.26	60				49	
51	1.30	60				49.6	
59	1.20	62				50	
64	1.20	61				48.3	
75	1.21	63				50	
116	1.29	63				49.4	1.0

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass 770 MHZ

Test Point Location: Hibernia Rd

Test Point Number: 2

Date of Test: 8/12/05 Time: 10:30

Temperature: 94°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.20	61				42	
4	1.27	60				48.1	
10	1.24	64				47.9	
12	1.30	64				49.4	
26	1.23	59				49.1	
29	1.23	54				48.3	
34	1.23	64				48.1	
51	1.30	60				48.3	
59	1.23	59				49.6	
64	1.21	62				49.8	
75	1.20	59				50	
116	1.22	60				49.9	0.7

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass 770 MHZ

Test Point Location: 419 Hwy 561 - Louisburg

Test Point Number: 3

Date of Test: 8/11/05 Time: 8:45

Temperature: 29

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

Test Setup used: The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum odulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

Minimum Specifications: All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.26	54				47.2	
4	1.23	54				47.5	
10	1.21	57				48.4	
12	1.23	58				48.7	
26	1.21	65				48.0	
29	1.21	65				48.1	
34	1.23	54				48.	
51	1.26	57				50.9	
59	1.21	63				48.9	
64	1.29	62				50	
75	1.24	66				50.1	
116	1.23	52				50.3	6.3

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHZ

Test Point Location: Lynnbank Rd

Test Point Number: 4

Date of Test: 8/16/05 Time: 2:00 pm

Temperature: 90°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

Minimum Specifications: All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances						C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO	CM		
2	1.29	68					48	
4	1.25	65					48.2	
10	1.23	62					48	
12	1.30	59					48.3	
26	1.27	62					47.6	
29	1.27	57					49	
34	1.26	62					48.7	
51	1.24	60					48.8	
59	1.26	56					56	
64	1.24	65					50.9	
75	1.25	65					48.3	
116	1.19	62					49.7	0.7

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHz

Test Point Location: Pocket St Stovall

Test Point Number: 5

Date of Test: 8/12/05 Time: 2:30 PM

Temperature: 96 °F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Pre-Amplifier			N/A
Variable Attenuator			
Band Pass Filter 1	AM 1000	9705011	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
2	120	60				47.8	
4	120	63				48.5	
10	126	55				47.9	
12	123	57				48.8	
26	124	62				48.3	
29	130	63				48.5	
34	130	65				48.2	
51	129	59				49.4	
59	120	58				50.2	
64	123	62				49.8	
75	127	60				49.9	
116	120	59				49.6	0.7

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Hayworth  
 Date of Test: 7-30-05 Time: 8:55  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 6  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or	CTB	CSO		
<u>2</u>	<u>.78</u>	<u>69.2</u>				<u>49</u>	<u>1.6</u>
<u>3</u>	<u>.72</u>	<u>69.3</u>				<u>48.2</u>	
<u>9</u>	<u>1.23</u>	<u>65.6</u>				<u>49.1</u>	
<u>22</u>	<u>-1.22</u>	<u>67.4</u>				<u>48.6</u>	
<u>26</u>	<u>1.29</u>	<u>70.3</u>				<u>48.7</u>	
<u>29</u>	<u>.76</u>	<u>66.1</u>				<u>48.3</u>	
<u>34</u>	<u>1.26</u>	<u>65.6</u>				<u>48.3</u>	
<u>43</u>	<u>.76</u>	<u>67.5</u>				<u>49.4</u>	
<u>49</u>	<u>.76</u>	<u>67.5</u>				<u>47.9</u>	
<u>57</u>	<u>1.23</u>	<u>69.3</u>				<u>47.7</u>	
<u>75</u>	<u>1.29</u>	<u>67.2</u>				<u>48</u>	
<u>116</u>	<u>-1.29</u>	<u>58.2</u>				<u>48.8</u>	



## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Hoover Rd  
 Date of Test: 7-29-05 Time: 3:07  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 7  
 Temperature: 80

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.26	59.1				47.2	1.3
3	1.20	69.2				47.4	
9	-1.28	63.6				49.1	
22	-1.26	67.2				48.7	
26	-1.28	60.6				49.4	
29	.84	64				47.6	
34	.70	67.5				48	
43	.75	65.8				49.2	
49	1.29	64.8				47.7	
57	1.26	62.4				48.4	
75	1.29	63.9				48.6	
116	-.70	69.5				47.1	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Lavender  
 Date of Test: 7-30-05 Time: 3:06  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 8  
 Temperature: 78

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>1.28</u>	<u>68.2</u>				<u>48</u>	<u>1.8</u>
<u>3</u>	<u>.79</u>	<u>66.4</u>				<u>47.7</u>	
<u>9</u>	<u>.74</u>	<u>66.9</u>				<u>48.1</u>	
<u>22</u>	<u>-1.23</u>	<u>60.8</u>				<u>48.4</u>	
<u>26</u>	<u>-1.22</u>	<u>62.4</u>				<u>47.9</u>	
<u>29</u>	<u>-.76</u>	<u>66.4</u>				<u>47.6</u>	
<u>34</u>	<u>1.24</u>	<u>66.8</u>				<u>49.2</u>	
<u>43</u>	<u>1.28</u>	<u>67.2</u>				<u>48.4</u>	
<u>49</u>	<u>1.22</u>	<u>64.2</u>				<u>48.2</u>	
<u>57</u>	<u>1.75</u>	<u>60.4</u>				<u>47.6</u>	
<u>75</u>	<u>1.78</u>	<u>66.6</u>				<u>46.8</u>	
<u>116</u>	<u>1.23</u>	<u>60.4</u>				<u>48.1</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Ravenwoods  
 Date of Test: 8-1-05 Time: 8:46  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770MHz  
 Test Point Number: 9  
 Temperature: 74

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.29	67.5				50.7	.6
3	.73	68.7				48.3	
9	1.23	67.7				50.8	
22	-1.29	61.7				48.3	
26	1.23	72.3				47.5	
29	.72	73.9				50.2	
34	-1.22	69.5				47.5	
43	.75	70				49.7	
49	-1.25	68.8				48.4	
57	-1.20	68.8				48.3	
75	1.27	73.2				48.9	
116	1.25	67.2				50	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Dixon Rd  
 Date of Test: 7-30-05 Time: 12:41  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 10  
 Temperature: 77

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AvM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>.78</u>	<u>69.1</u>				<u>48.1</u>	<u>.3</u>
<u>3</u>	<u>.79</u>	<u>67.4</u>				<u>48.3</u>	
<u>9</u>	<u>.70</u>	<u>68.4</u>				<u>47</u>	
<u>22</u>	<u>1.29</u>	<u>68.3</u>				<u>48.1</u>	
<u>26</u>	<u>-1.74</u>	<u>66</u>				<u>48.8</u>	
<u>29</u>	<u>.76</u>	<u>65.3</u>				<u>47.2</u>	
<u>34</u>	<u>-1.78</u>	<u>66.3</u>				<u>48.5</u>	
<u>43</u>	<u>-1.28</u>	<u>69.7</u>				<u>49.7</u>	
<u>49</u>	<u>-1.28</u>	<u>66.5</u>				<u>48.4</u>	
<u>57</u>	<u>.78</u>	<u>67.8</u>				<u>47.8</u>	
<u>75</u>	<u>-1.20</u>	<u>66.7</u>				<u>48.1</u>	
<u>116</u>	<u>-1.26</u>	<u>60.8</u>				<u>47.7</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Arbor Field  
 Date of Test: 11/16/05 Time: 10:30am  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 250kHz  
 Test Point Number: 11  
 Temperature: 65°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VS/NA</u>	<u>35-860MHZ</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic Am1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>1.32</u>	<u>67</u>				<u>47</u>	<u>.2</u>
<u>3</u>	<u>-.72</u>	<u>72</u>				<u>51</u>	
<u>9</u>	<u>1.26</u>	<u>66</u>				<u>48</u>	
<u>22</u>	<u>1.28</u>	<u>71</u>				<u>46</u>	
<u>26</u>	<u>-1.72</u>	<u>69</u>				<u>52</u>	
<u>29</u>	<u>1.24</u>	<u>72</u>				<u>45</u>	
<u>34</u>	<u>-1.25</u>	<u>68</u>				<u>49</u>	
<u>43</u>	<u>-1.28</u>	<u>66</u>				<u>51</u>	
<u>49</u>	<u>.72</u>	<u>71</u>				<u>51</u>	
<u>57</u>	<u>1.76</u>	<u>72</u>				<u>47</u>	
<u>75</u>	<u>-1.25</u>	<u>68</u>				<u>50</u>	
<u>116</u>	<u>-1.26</u>	<u>73</u>				<u>45</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Oak Grove  
 Date of Test: 8-1-05 Time: 10:20  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 12  
 Temperature: 78

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AvM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise: Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (+4 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	-1.77	71.2				49	1.0
3	1.24	65.7				47.5	
9	-1.29	65.3				47.1	
22	-1.23	64.5				48.4	
26	-1.28	68.2				47.4	
29	-1.29	65.6				47.5	
34	.78	67				47.1	
43	1.27	65.5				47.7	
49	1.24	63.6				49	
57	1.28	70.2				47.6	
75	1.24	65.7				47.3	
116	1.29	62.1				47.2	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: Adirondack  
 Date of Test: 7-30-05 Time: 10:10  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 13  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Pre-Amplifier	<u>Viewsonic VSLNA</u>	<u>35-860 MHz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic AvM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured, as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better than 3 percent.

Assigned Ch.	Coherent Disturbances			C/N Ratio	% Hum
	Freq.	Level	or CTB		
<u>2</u>	<u>.79</u>	<u>70</u>		<u>49</u>	<u>.9</u>
<u>3</u>	<u>1.20</u>	<u>70.9</u>		<u>48.5</u>	
<u>9</u>	<u>.77</u>	<u>67.9</u>		<u>50.9</u>	
<u>22</u>	<u>.75</u>	<u>70.2</u>		<u>52.6</u>	
<u>26</u>	<u>1.27</u>	<u>69</u>		<u>49.4</u>	
<u>29</u>	<u>.78</u>	<u>68.6</u>		<u>48.8</u>	
<u>34</u>	<u>.79</u>	<u>65.7</u>		<u>48.7</u>	
<u>43</u>	<u>.78</u>	<u>66.1</u>		<u>50.2</u>	
<u>49</u>	<u>.70</u>	<u>71.1</u>		<u>47.5</u>	
<u>57</u>	<u>.71</u>	<u>69.8</u>		<u>47.7</u>	
<u>75</u>	<u>1.26</u>	<u>68.6</u>		<u>49.3</u>	
<u>116</u>	<u>1.29</u>	<u>68.5</u>		<u>48.3</u>	

## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: W Pardee Chapel  
 Date of Test: 7-30-05 Time: 11:17  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 14  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Pre-Amplifier	Viewsonic VSLNA	35-860 MHz	N/A
Variable Attenuator			
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A
Field Strength Meter			
Channel Selector			N/A

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise: Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
2	1.75	67.4				48	1.0
3	1.20	69				48.1	
9	1.26	71.5				48.4	
22	1.29	68.9				48.2	
26	1.27	69.6				48.5	
29	1.72	69.6				49.8	
34	1.23	68.5				47.7	
43	-1.23	68.3				50.4	
49	1.27	70				47	
57	-1.23	67.8				51.1	
75	1.26	68.9				49.1	
116	-1.29	60.1				48.9	



## Section 2 - Carrier-To-Noise, Coherent Disturbance & Hum Test

System Name: Durham / Chapel Hill  
 Test Point Location: New Hope  
 Date of Test: 9-15-05 Time: 11:30 AM  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 mhz  
 Test Point Number: 15  
 Temperature: 85°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3829A02949</u>	<u>5/10/05</u>
Pre-Amplifier	<u>ViewSonic VSLNA</u>	<u>35-860 mhz</u>	<u>N/A</u>
Variable Attenuator			
Band Pass Filter 1	<u>Trilithic Am1000</u>	<u>9509081</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
Field Strength Meter			
Channel Selector			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is feed into a spectrum analyzer through a pre-amplifier, variable attenuator, and band pass filter as required. Coherent Disturbances are measured by first noting the channel carrier level and then removing the channel from the system. The levels of the highest carrier (or groups of carriers) in the channel's pass band and their frequencies are then measured, relative to the peak level and frequency of the removed carrier. The level of the noise floor is also measured as referenced to the removed carrier. An un-modulated carrier is to be used to measure the % of Hum modulation.

If automated test equipment is used to test Coherent Disturbances and Carrier-to-Noise; Composite Triple Beat (CTB), Composite Second Order (CSO), and Cross Modulation (CM) are to be measured and the results recorded individually along with Carrier-to-Noise (C/N). All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 Percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend and each field test point on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii) The highest and lowest channels must be tested for Carrier-to-Noise measurements. Hum modulation need only be tested on one carrier.

**Minimum Specifications:** All Coherent Disturbance measurements must be 52 dB or better, 48 dB or better for coherent systems (HRC and IRC systems). All Carrier-to-Noise measurements must be 46 dB or better (44 dB or better in non-upgraded plant). The Hum measurement must be better then 3 percent.

Assigned Ch.	Coherent Disturbances					C/N Ratio	% Hum
	Freq.	Level	or CTB	CSO	CM		
<u>2</u>	<u>-76</u>	<u>64</u>				<u>47</u>	<u>.3</u>
<u>3</u>	<u>1.28</u>	<u>71</u>				<u>48</u>	
<u>9</u>	<u>1.26</u>	<u>69</u>				<u>49</u>	
<u>22</u>	<u>-78</u>	<u>74</u>				<u>51</u>	
<u>26</u>	<u>1.24</u>	<u>74</u>				<u>50</u>	
<u>29</u>	<u>-1.28</u>	<u>76</u>				<u>53</u>	
<u>34</u>	<u>-1.25</u>	<u>72</u>				<u>53</u>	
<u>43</u>	<u>1.28</u>	<u>68</u>				<u>52</u>	
<u>49</u>	<u>-76</u>	<u>68</u>				<u>52</u>	
<u>57</u>	<u>1.25</u>	<u>70</u>				<u>51</u>	
<u>75</u>	<u>1.26</u>	<u>67</u>				<u>50</u>	
<u>116</u>	<u>1.28</u>	<u>72</u>				<u>46</u>	

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham/Chapel Hill/Henderson      Highest Band Pass: 770MHz  
 Test Point Location: South Main St.      Test Point Number: 1  
 Date of Test: 8-24-05      Time: 8:12      Temperature: 65°C  
 Tech(s) Performing Test: David Lee 11/23/02      Date Begun: 8-24

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>SDH 5000</u>	<u>6317491</u>	<u>7-1-05</u>
FSM			<u>N/A</u>

Test Setup used: A 30 meeter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.  
 Date/Time      8-24 8:12      8-24 11:20      8-24 20:34      8-24 22:21  
 Was the Specification Met? Yes , No

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).  

Maximum Video Carrier Level	<u>15.3</u>	<u>13.3</u>	<u>13.0</u>	<u>14.4</u>
Minimum Video Carrier Level	<u>11.9</u>	<u>9.9</u>	<u>10.5</u>	<u>11.2</u>
Variation Highest & Lowest Video Levels	<u>3.4</u>	<u>3.4</u>	<u>3.1</u>	<u>3.0</u>

 Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5      Was the specification met? Yes , No   
 Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.  
 Justification for any variation in this requirement:      Was the Specification Met? Yes , No

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:  
 Justification for any variation greater than 3 dB:      Was this Specification Met? Yes , No

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.  
 Justification for any video level less then 3 dBmV:      Was this Specification Met? Yes , No

6. During this 24 hour test all video carrier level changes must be less then 8 dB  
 Justification for any variation greater then 8 dB:      Was this Specification Met? Yes , No   
 Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.  
 Justification for any variation greater then 8 dB:      Was this Specification Met? Yes , No

WWG AUTO TEST REPORT

Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05 Page 1

Operator: 9694 File: TP01 Interval: 4  
 Date: 08/25/05 Time: 02:21:32 Temp: +75 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Rum (%)	Mod (%)
2		+13.6	-0.2	13.8	---	---	---
3		+13.9	-0.2	14.1	---	---	---
4		+13.5	-0.5	14.0	---	---	---
5		+13.9	+0.6	13.3	---	---	---
99		+13.3	-2.4	15.7	---	---	---
14		+12.6	-1.5	14.1	---	---	---
15		+13.4	-1.4	14.8	---	---	---
16		+12.8	-1.3	14.1	---	---	---
17		+12.3	-1.2	13.5	---	---	---
18		+14.2	-1.0	15.2	---	---	---
19		+13.3	-0.9	14.2	---	---	---
20		+12.8	-1.1	13.9	---	---	---
21		+14.0	-1.0	15.0	---	---	---
22		+13.0	-1.3	14.3	---	---	---
7		+14.2	+0.2	14.0	---	---	---
8		+13.1	+0.0	13.1	---	---	---
9		+13.8	+0.2	13.6	---	---	---
10		+13.9	+0.1	13.8	---	---	---
11		+14.8	+0.1	14.7	---	---	---
12		+14.2	-2.1	16.3	---	---	---
13		+13.7	+1.1	12.6	---	---	---
23		+14.3	-0.3	14.6	---	---	---
24		+13.4	-0.7	14.1	---	---	---
25		+12.5	-0.3	12.8	---	---	---
26		+14.1	-0.6	14.7	---	---	---
27		+14.0	+0.1	13.9	---	---	---
28		+14.1	-0.4	14.5	---	---	---
29		+12.4	-1.5	13.9	---	---	---
30		+12.3	-0.4	12.7	---	---	---
31		+13.1	-1.6	14.7	---	---	---
32		+12.4	-1.3	13.7	---	---	---
33		+13.0	-0.7	13.7	---	---	---
34		+12.5	-1.4	13.9	---	---	---
35		+13.2	-1.2	14.4	---	---	---
36		+13.0	-0.8	13.8	---	---	---
37		+12.9	+0.1	12.8	---	---	---
38		+13.6	-0.9	14.5	---	---	---
39		+13.7	-0.2	13.9	---	---	---
40		+13.2	+0.1	13.1	---	---	---
41		+13.9	-1.2	15.1	---	---	---
42		+13.5	-1.2	14.7	---	---	---
43		+14.2	-0.2	14.4	---	---	---
44		+13.3	-0.5	13.8	---	---	---
45		+14.0	+0.4	13.6	---	---	---
46		+14.8	+0.6	14.2	---	---	---
47		+14.2	+0.6	13.6	---	---	---
48		+14.1	+0.1	14.0	---	---	---
49		+13.6	+0.1	13.5	---	---	---
50		+14.3	+1.1	13.2	---	---	---
51		+14.2	-0.6	14.8	---	---	---
52		+14.2	+0.4	13.8	---	---	---
53		+14.3	-0.8	15.1	---	---	---
54		+13.6	+0.2	13.4	---	---	---
55		+13.4	-0.6	14.0	---	---	---
56		+13.7	-0.7	14.4	---	---	---
57		+13.8	+0.0	13.8	---	---	---
58		+13.8	-0.5	14.3	---	---	---
59		+13.0	-0.4	13.4	---	---	---
60		+14.3	-0.4	14.7	---	---	---
61		+13.6	-0.6	14.2	---	---	---
62		+12.7	-1.0	13.7	---	---	---
63		+13.5	-1.6	15.1	---	---	---
64		+13.2	-0.8	14.0	---	---	---
65		+13.1	-1.7	14.8	---	---	---
66		+12.4	-1.2	13.6	---	---	---
67		+13.3	-0.6	13.9	---	---	---
68		+13.9	-2.0	15.9	---	---	---
69		+13.0	-1.2	14.2	---	---	---
70		+13.4	-0.6	14.0	---	---	---
71		+13.2	-0.5	13.7	---	---	---
72		+13.6	-0.4	14.0	---	---	---
73		+12.9	-1.3	14.2	---	---	---
74		+12.7	-1.6	14.3	---	---	---
75		+13.1	-2.4	15.5	---	---	---
76		+11.9	-3.1	15.0	---	---	---
77		+11.8	-2.1	13.9	---	---	---
116		+13.7	+0.6	13.1	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 77	+11.8 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 77 & 46	3.0 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.6 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.3 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WWG AUTO TEST REPORT

Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05 Page 1

Operator: 9694 File: TP01 Interval: 1  
 Date: 08/24/05 Time: 08:12:32 Temp: +65 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Rm (%)	Mod (%)
2		+14.0	+0.1	13.9	---	---	---
3		+14.4	-0.2	14.6	---	---	---
4		+13.4	-0.2	13.6	---	---	---
5		+14.7	+0.9	13.8	---	---	---
99		+14.0	-1.9	15.9	---	---	---
14		+12.4	-1.5	13.9	---	---	---
15		+13.3	-1.2	14.5	---	---	---
16		+12.9	-1.3	14.2	---	---	---
17		+12.8	-0.9	13.7	---	---	---
18		+14.4	-0.7	15.1	---	---	---
19		+13.4	-0.6	14.0	---	---	---
20		+13.0	-1.0	14.0	---	---	---
21		+14.1	-0.9	15.0	---	---	---
22		+13.2	-1.1	14.3	---	---	---
7		+14.5	+0.5	14.0	---	---	---
8		+13.5	+0.6	12.9	---	---	---
9		+13.8	+0.2	13.6	---	---	---
10		+14.1	+0.3	13.8	---	---	---
11		+15.3	+0.3	15.0	---	---	---
12		+14.6	-1.5	16.1	---	---	---
13		+13.3	+0.9	12.4	---	---	---
23		+14.2	-0.1	14.3	---	---	---
24		+13.7	-0.4	14.1	---	---	---
25		+13.0	-0.4	13.4	---	---	---
26		+14.4	-0.5	14.9	---	---	---
27		+13.7	+0.3	13.4	---	---	---
28		+13.9	-0.4	14.3	---	---	---
29		+12.6	-1.3	13.9	---	---	---
30		+12.4	-0.4	12.8	---	---	---
31		+13.1	-1.6	14.7	---	---	---
32		+12.6	-1.1	13.7	---	---	---
33		+13.3	-0.6	13.9	---	---	---
34		+12.9	-1.0	13.9	---	---	---
35		+13.1	-1.2	14.3	---	---	---
36		+13.2	-0.8	14.0	---	---	---
37		+13.1	+0.4	12.7	---	---	---
38		+13.5	-0.5	14.0	---	---	---
39		+13.9	-0.1	14.0	---	---	---
40		+13.3	+0.5	12.8	---	---	---
41		+14.3	-0.9	15.2	---	---	---
42		+13.9	-0.8	14.7	---	---	---
43		+13.7	+0.1	13.6	---	---	---
44		+14.0	+0.0	14.0	---	---	---
45		+14.4	+0.4	14.0	---	---	---
46		+14.7	+0.9	13.8	---	---	---
47		+14.3	+0.7	13.6	---	---	---
48		+14.0	+0.2	13.8	---	---	---
49		+13.5	+0.5	13.0	---	---	---
50		+14.3	+1.0	13.3	---	---	---
51		+14.2	-0.1	14.3	---	---	---
52		+14.7	+0.7	14.0	---	---	---
53		+14.2	-0.7	14.9	---	---	---
54		+13.8	+0.3	13.5	---	---	---
55		+13.7	-0.2	13.9	---	---	---
56		+13.9	-0.3	14.2	---	---	---
57		+14.4	+0.4	14.0	---	---	---
58		+13.8	-0.4	14.2	---	---	---
59		+13.2	-0.4	13.6	---	---	---
60		+14.3	-0.4	14.7	---	---	---
61		+13.9	-0.2	14.1	---	---	---
62		+13.3	-0.6	13.9	---	---	---
63		+13.9	-1.3	15.2	---	---	---
64		+13.8	-0.4	14.2	---	---	---
65		+14.4	-1.0	15.4	---	---	---
66		+12.9	-1.0	13.9	---	---	---
67		+13.5	-0.3	13.8	---	---	---
68		+14.4	-1.9	16.3	---	---	---
69		+13.0	-0.7	13.7	---	---	---
70		+13.8	+0.0	13.8	---	---	---
71		+13.6	-0.3	13.9	---	---	---
72		+13.5	-0.4	13.9	---	---	---
73		+13.0	-1.1	14.1	---	---	---
74		+12.7	-1.3	14.0	---	---	---
75		+13.6	-2.0	15.6	---	---	---
76		+11.9	-2.9	14.8	---	---	---
77		+12.0	-2.0	14.0	---	---	---
116		+14.1	+0.8	13.3	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 76	+11.9 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 76 & 11	3.4 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.3 dB	Pass
Max Delta V/A:	17.0 dB	CH 68	16.3 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WVG AUTO TEST REPORT  
 Model: SDA-5000

Serial No: 6313491

Page 1  
 Cal Date: 07/11/05

Operator: 9694  
 Date: 08/24/05

File: TP01  
 Time: 14:28:27

Interval: 2  
 Temp: +90 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+11.6	-2.2	13.8	---	---	---
3		+12.5	-2.5	15.0	---	---	---
4		+11.6	-2.5	14.1	---	---	---
5		+12.2	-1.3	13.5	---	---	---
99		+11.4	-4.0	15.4	---	---	---
14		+10.5	-3.7	14.2	---	---	---
15		+11.2	-3.5	14.7	---	---	---
16		+10.6	-3.5	14.1	---	---	---
17		+10.5	-3.2	13.7	---	---	---
18		+12.1	-3.0	15.1	---	---	---
19		+11.1	-2.8	13.9	---	---	---
20		+11.2	-2.8	14.0	---	---	---
21		+12.0	-2.9	14.9	---	---	---
22		+11.3	-3.2	14.5	---	---	---
7		+12.0	-1.6	13.6	---	---	---
8		+11.4	-1.3	12.7	---	---	---
9		+11.5	-1.5	13.0	---	---	---
10		+12.0	-1.7	13.7	---	---	---
11		+13.0	-1.8	14.8	---	---	---
12		+12.9	-3.6	16.5	---	---	---
13		+11.5	-1.2	12.7	---	---	---
23		+12.2	-2.2	14.4	---	---	---
24		+12.0	-2.7	14.7	---	---	---
25		+10.8	-2.4	13.2	---	---	---
26		+12.6	-2.5	15.1	---	---	---
27		+11.8	-1.6	13.4	---	---	---
28		+11.8	-2.4	14.2	---	---	---
29		+10.8	-3.4	14.2	---	---	---
30		+10.7	-2.2	12.9	---	---	---
31		+11.3	-3.5	14.8	---	---	---
32		+10.8	-3.4	14.2	---	---	---
33		+10.9	-2.6	13.5	---	---	---
34		+10.9	-2.9	13.8	---	---	---
35		+11.4	-2.8	14.2	---	---	---
36		+11.4	-2.5	13.9	---	---	---
37		+11.1	-1.8	12.9	---	---	---
38		+11.6	-2.5	14.1	---	---	---
39		+11.7	-2.2	13.9	---	---	---
40		+11.9	-1.5	13.4	---	---	---
41		+12.4	-3.1	15.5	---	---	---
42		+12.2	-2.9	15.1	---	---	---
43		+12.3	-2.0	14.3	---	---	---
44		+11.9	-2.2	14.1	---	---	---
45		+12.1	-1.6	13.7	---	---	---
46		+13.3	-1.4	14.7	---	---	---
47		+12.4	-1.2	13.6	---	---	---
48		+12.0	-1.7	13.7	---	---	---
49		+11.7	-2.0	13.7	---	---	---
50		+13.1	-0.9	14.0	---	---	---
51		+12.7	-2.0	14.7	---	---	---
52		+12.7	-1.3	14.0	---	---	---
53		+12.5	-2.4	14.9	---	---	---
54		+11.9	-1.5	13.4	---	---	---
55		+11.8	-1.9	13.7	---	---	---
56		+11.9	-2.2	14.1	---	---	---
57		+12.1	-1.5	13.6	---	---	---
58		+12.4	-2.5	14.9	---	---	---
59		+11.2	-2.2	13.4	---	---	---
60		+12.5	-2.4	14.9	---	---	---
61		+12.4	-2.2	14.6	---	---	---
62		+11.6	-2.7	14.3	---	---	---
63		+12.1	-3.3	15.4	---	---	---
64		+11.6	-2.6	14.2	---	---	---
65		+12.4	-3.0	15.4	---	---	---
66		+10.9	-3.1	14.0	---	---	---
67		+11.5	-2.2	13.7	---	---	---
68		+12.4	-3.9	16.3	---	---	---
69		+10.8	-2.9	13.7	---	---	---
70		+12.0	-2.3	14.3	---	---	---
71		+11.5	-2.2	13.7	---	---	---
72		+11.7	-2.5	14.2	---	---	---
73		+11.3	-3.2	14.5	---	---	---
74		+10.6	-3.2	13.8	---	---	---
75		+11.6	-4.0	15.6	---	---	---
76		+9.9	-4.5	14.4	---	---	---
77		+10.1	-3.9	14.0	---	---	---
116		+12.0	-1.2	13.2	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 76	+9.9 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 76 & 46	3.4 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.7 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.5 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion:

P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+12.5	-1.2	13.7	---	---	---
3		+12.8	-1.5	14.3	---	---	---
4		+12.3	-1.7	14.0	---	---	---
5		+13.1	-0.4	13.5	---	---	---
99		+12.3	-3.3	15.6	---	---	---
14		+11.3	-2.7	14.0	---	---	---
15		+12.2	-2.7	14.9	---	---	---
16		+11.7	-2.5	14.2	---	---	---
17		+11.3	-2.1	13.4	---	---	---
18		+13.0	-2.0	15.0	---	---	---
19		+11.4	-1.8	13.2	---	---	---
20		+11.4	-2.2	13.6	---	---	---
21		+12.7	-2.0	14.7	---	---	---
22		+12.1	-2.4	14.5	---	---	---
7		+13.0	-0.8	13.8	---	---	---
8		+12.5	-0.8	13.3	---	---	---
9		+12.6	-0.9	13.5	---	---	---
10		+12.6	-1.1	13.7	---	---	---
11		+12.7	-1.4	14.1	---	---	---
12		+13.4	-3.0	16.4	---	---	---
13		+12.2	-0.2	12.4	---	---	---
23		+13.0	-1.3	14.3	---	---	---
24		+12.7	-1.9	14.6	---	---	---
25		+11.4	-1.7	13.1	---	---	---
26		+12.8	-1.9	14.7	---	---	---
27		+12.3	-1.1	13.4	---	---	---
28		+12.0	-1.8	13.8	---	---	---
29		+11.3	-2.9	14.2	---	---	---
30		+11.2	-1.5	12.7	---	---	---
31		+11.7	-2.7	14.4	---	---	---
32		+10.9	-2.7	13.6	---	---	---
33		+11.4	-2.2	13.6	---	---	---
34		+11.3	-2.4	13.7	---	---	---
35		+11.8	-2.3	14.1	---	---	---
36		+12.1	-2.0	14.1	---	---	---
37		+11.7	-1.2	12.9	---	---	---
38		+12.2	-2.2	14.4	---	---	---
39		+12.1	-1.7	13.8	---	---	---
40		+11.8	-1.0	12.8	---	---	---
41		+12.6	-2.3	14.9	---	---	---
42		+12.4	-2.3	14.7	---	---	---
43		+13.0	-1.6	14.6	---	---	---
44		+12.6	-1.6	14.2	---	---	---
45		+13.1	-1.2	14.3	---	---	---
46		+13.6	-0.7	14.3	---	---	---
47		+13.0	-0.7	13.7	---	---	---
48		+13.1	-1.2	14.3	---	---	---
49		+12.4	-1.3	13.7	---	---	---
50		+13.1	-0.3	13.4	---	---	---
51		+12.6	-1.6	14.2	---	---	---
52		+13.0	-0.8	13.8	---	---	---
53		+12.9	-2.0	14.9	---	---	---
54		+12.6	-1.0	13.6	---	---	---
55		+12.1	-1.4	13.5	---	---	---
56		+12.3	-1.8	14.1	---	---	---
57		+12.8	-1.1	13.9	---	---	---
58		+12.8	-1.8	14.6	---	---	---
59		+11.9	-1.9	13.8	---	---	---
60		+13.1	-1.1	14.2	---	---	---
61		+12.7	-1.7	14.4	---	---	---
62		+11.6	-1.9	13.5	---	---	---
63		+12.5	-2.6	15.1	---	---	---
64		+12.5	-1.9	14.4	---	---	---
65		+12.6	-2.7	15.3	---	---	---
66		+11.6	-2.3	13.9	---	---	---
67		+12.2	-1.6	13.8	---	---	---
68		+13.1	-3.0	16.1	---	---	---
69		+11.9	-2.2	14.1	---	---	---
70		+12.7	-1.2	13.9	---	---	---
71		+12.5	-1.6	14.1	---	---	---
72		+12.7	-1.2	13.9	---	---	---
73		+11.8	-2.3	14.1	---	---	---
74		+11.4	-2.6	14.0	---	---	---
75		+12.3	-3.3	15.6	---	---	---
76		+10.5	-4.3	14.8	---	---	---
77		+11.0	-3.3	14.3	---	---	---
116		+12.6	-0.5	13.1	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 76	+10.5 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 76 & 46	3.1 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.4 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.4 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill / Henderson  
 Test Point Location: Hibernia Rd.  
 Date of Test: 8-23-05 Time: 17:10  
 Tech(s) Performing Test: David Williamson

Highest Band Pass: 770 MHz  
 Test Point Number: 2  
 Temperature: 40°  
 Date Begun: 8-23

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>SD45000</u>	<u>6313491</u>	<u>7-11</u>
FSM			<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

Date/Time	<u>8-23-05 17:10</u>	<u>8-23-05 17:10</u>	<u>8-23-05 17:10</u>	Was the Specification Met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
-----------	----------------------	----------------------	----------------------	--

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>16.0</u>	<u>16.0</u>	<u>15.9</u>	<u>16.0</u>
Minimum Video Carrier Level	<u>11.8</u>	<u>11.5</u>	<u>11.9</u>	<u>11.8</u>
Variation Highest & Lowest Video Levels	<u>4.2</u>	<u>4.5</u>	<u>4.0</u>	<u>4.2</u>
Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth	<u>14.5</u>			Was the specification met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Justification for any variation in this requirement: \_\_\_\_\_  
 Was the Specification Met? Yes  No

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Justification for any variation greater than 3 dB: \_\_\_\_\_  
 Was this Specification Met? Yes  No

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Justification for any video level less then 3 dBmV: \_\_\_\_\_  
 Was this Specification Met? Yes  No

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Justification for any variation greater then 8 dB: \_\_\_\_\_  
 Was this Specification Met? Yes  No

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Justification for any variation greater then 8 dB: \_\_\_\_\_  
 Was this Specification Met? Yes  No

Operator: 9694 File: TP02 Interval: 1  
 Date: 08/23/05 Time: 17:10:34 Temp: +90 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+12.6	-1.3	13.9	---	---	---
3		+13.1	-1.6	14.7	---	---	---
4		+12.7	-1.6	14.3	---	---	---
5		+13.5	-0.3	13.8	---	---	---
99		+12.3	-3.1	15.4	---	---	---
14		+11.8	-2.6	14.4	---	---	---
15		+12.7	-2.5	15.2	---	---	---
16		+12.3	-1.8	14.1	---	---	---
17		+12.6	-1.4	14.0	---	---	---
18		+13.7	-1.4	15.1	---	---	---
19		+12.6	-1.4	14.0	---	---	---
20		+12.3	-1.6	13.9	---	---	---
21		+13.5	-1.4	14.9	---	---	---
22		+12.6	-1.8	14.4	---	---	---
7		+14.1	+0.1	14.0	---	---	---
8		+13.1	-0.1	13.2	---	---	---
9		+13.6	+0.1	13.5	---	---	---
10		+14.1	-0.1	14.2	---	---	---
11		+14.6	-0.3	14.9	---	---	---
12		+14.8	-2.0	16.8	---	---	---
13		+13.5	+0.7	12.8	---	---	---
23		+14.3	-0.3	14.6	---	---	---
24		+14.0	-0.6	14.6	---	---	---
25		+13.2	-0.4	13.6	---	---	---
26		+14.2	-0.7	14.9	---	---	---
27		+13.9	+0.4	13.5	---	---	---
28		+14.4	-0.2	14.6	---	---	---
29		+13.3	-1.0	14.3	---	---	---
30		+13.1	-0.7	13.8	---	---	---
31		+13.2	-1.5	14.7	---	---	---
32		+13.1	-0.8	13.9	---	---	---
33		+13.4	-0.4	13.8	---	---	---
34		+13.3	-0.8	14.1	---	---	---
35		+14.1	-0.3	14.4	---	---	---
36		+14.2	-0.2	14.4	---	---	---
37		+13.5	+0.4	13.1	---	---	---
38		+14.2	-0.4	14.6	---	---	---
39		+14.2	+0.0	14.2	---	---	---
40		+13.9	+0.8	13.1	---	---	---
41		+14.7	-0.4	15.1	---	---	---
42		+14.4	-0.4	14.8	---	---	---
43		+15.2	+0.6	14.6	---	---	---
44		+14.4	+0.0	14.4	---	---	---
45		+15.4	+0.8	14.6	---	---	---
46		+15.6	+1.2	14.4	---	---	---
47		+15.1	+1.5	13.6	---	---	---
48		+15.4	+0.8	14.6	---	---	---
49		+14.7	+0.9	13.8	---	---	---
50		+15.8	+1.6	14.2	---	---	---
51		+15.3	+0.4	14.9	---	---	---
52		+15.3	+1.1	14.2	---	---	---
53		+15.1	+0.3	14.8	---	---	---
54		+14.8	+1.0	13.8	---	---	---
55		+15.1	+0.7	14.4	---	---	---
56		+14.9	+0.4	14.5	---	---	---
57		+15.4	+1.6	13.8	---	---	---
58		+15.6	+0.4	15.2	---	---	---
59		+14.8	+0.7	14.1	---	---	---
60		+15.1	+0.4	14.7	---	---	---
61		+15.3	+0.9	14.4	---	---	---
62		+14.0	+0.4	13.6	---	---	---
63		+15.1	-0.1	15.2	---	---	---
64		+14.9	+0.3	14.6	---	---	---
65		+15.1	-0.1	15.2	---	---	---
66		+14.2	-0.2	14.4	---	---	---
67		+14.8	+0.4	14.4	---	---	---
68		+15.3	-1.0	16.3	---	---	---
69		+14.3	-0.1	14.4	---	---	---
70		+15.7	+0.9	14.8	---	---	---
71		+14.6	+0.3	14.3	---	---	---
72		+15.0	+1.1	13.9	---	---	---
73		+14.5	+0.5	14.0	---	---	---
74		+14.0	-0.2	14.2	---	---	---
75		+15.1	-0.9	16.0	---	---	---
76		+13.4	-1.2	14.6	---	---	---
77		+14.2	-0.6	14.8	---	---	---
116		+16.0	+2.3	13.7	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+11.8 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 116	4.2 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.8 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.8 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: F A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



WVG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05  
 Operator: 9694 File: TP02 Interval: 2  
 Date: 08/23/05 Time: 23:34:38 Temp: +85 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+12.8	-1.5	14.3	---	---	---
3		+13.2	-1.7	14.9	---	---	---
4		+12.6	-1.2	13.8	---	---	---
5		+13.5	-0.7	14.2	---	---	---
99		+12.3	-3.3	15.6	---	---	---
14		+11.5	-2.7	14.2	---	---	---
15		+12.7	-2.2	14.9	---	---	---
16		+12.4	-1.8	14.2	---	---	---
17		+12.7	-1.4	14.1	---	---	---
18		+13.5	-1.4	14.9	---	---	---
19		+12.9	-1.4	14.3	---	---	---
20		+12.5	-1.6	14.1	---	---	---
21		+13.8	-1.5	15.3	---	---	---
22		+12.3	-1.9	14.2	---	---	---
7		+13.8	+0.0	13.8	---	---	---
8		+13.1	-0.2	13.3	---	---	---
9		+13.7	-0.2	13.9	---	---	---
10		+14.1	-0.2	14.3	---	---	---
11		+14.4	-0.4	14.8	---	---	---
12		+14.9	-2.0	16.9	---	---	---
13		+13.3	+0.7	12.6	---	---	---
23		+14.4	-0.3	14.7	---	---	---
24		+14.3	-0.6	14.9	---	---	---
25		+13.1	-0.6	13.7	---	---	---
26		+14.3	-0.6	14.9	---	---	---
27		+13.6	+0.0	13.6	---	---	---
28		+14.5	-0.2	14.7	---	---	---
29		+13.4	-0.9	14.3	---	---	---
30		+13.4	-0.5	13.9	---	---	---
31		+13.2	-1.7	14.9	---	---	---
32		+12.8	-0.8	13.6	---	---	---
33		+13.5	-0.5	14.0	---	---	---
34		+13.5	-1.0	14.5	---	---	---
35		+13.8	-0.4	14.2	---	---	---
36		+13.6	-0.3	13.9	---	---	---
37		+13.6	+0.2	13.4	---	---	---
38		+13.9	-0.2	14.1	---	---	---
39		+14.3	+0.1	14.2	---	---	---
40		+13.7	+0.9	12.8	---	---	---
41		+14.6	-0.7	15.3	---	---	---
42		+14.3	-0.5	14.8	---	---	---
43		+14.8	+0.6	14.2	---	---	---
44		+14.5	+0.2	14.3	---	---	---
45		+15.6	+0.9	14.7	---	---	---
46		+15.9	+1.2	14.7	---	---	---
47		+15.2	+1.3	13.9	---	---	---
48		+15.1	+0.9	14.2	---	---	---
49		+14.9	+0.9	14.0	---	---	---
50		+15.4	+2.0	13.4	---	---	---
51		+15.4	+0.4	15.0	---	---	---
52		+15.4	+1.3	14.1	---	---	---
53		+14.9	+0.1	14.8	---	---	---
54		+14.9	+1.1	13.8	---	---	---
55		+15.2	+0.9	14.3	---	---	---
56		+15.1	+0.4	14.7	---	---	---
57		+15.3	+1.4	13.9	---	---	---
58		+16.0	+0.8	15.2	---	---	---
59		+14.9	+0.8	14.1	---	---	---
60		+15.4	+0.8	14.6	---	---	---
61		+14.9	+0.5	14.4	---	---	---
62		+14.0	+0.4	13.6	---	---	---
63		+15.3	-0.3	15.6	---	---	---
64		+14.9	+0.3	14.6	---	---	---
65		+15.4	+0.1	15.3	---	---	---
66		+14.2	+0.0	14.2	---	---	---
67		+14.8	+0.6	14.2	---	---	---
68		+15.6	-0.6	16.2	---	---	---
69		+14.0	-0.3	14.3	---	---	---
70		+15.2	+1.0	14.2	---	---	---
71		+14.7	+0.5	14.2	---	---	---
72		+14.6	+0.8	13.8	---	---	---
73		+14.5	+0.3	14.2	---	---	---
74		+14.1	-0.2	14.3	---	---	---
75		+15.2	-0.6	15.8	---	---	---
76		+13.5	-1.4	14.9	---	---	---
77		+13.9	-0.4	14.3	---	---	---
116		+15.9	+2.3	13.6	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+11.5 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 58	4.5 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.6 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.9 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WVG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05  
 Operator: 9694 File: TP02 Interval: 3  
 Date: 08/24/05 Time: 05:35:03 Temp: +80 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+12.8	-1.4	14.2	---	---	---
3		+13.3	-1.5	14.8	---	---	---
4		+12.8	-1.4	14.2	---	---	---
5		+13.7	-0.3	14.0	---	---	---
99		+12.4	-3.2	15.6	---	---	---
14		+11.9	-2.3	14.2	---	---	---
15		+12.7	-2.2	14.9	---	---	---
16		+12.5	-1.9	14.4	---	---	---
17		+12.8	-1.0	13.8	---	---	---
18		+13.7	-1.3	15.0	---	---	---
19		+12.7	-1.0	13.7	---	---	---
20		+12.6	-1.6	14.2	---	---	---
21		+13.9	-1.3	15.2	---	---	---
22		+12.5	-1.9	14.4	---	---	---
7		+13.9	-0.2	14.1	---	---	---
8		+12.9	-0.3	13.2	---	---	---
9		+13.3	-0.1	13.4	---	---	---
10		+13.9	-0.2	14.1	---	---	---
11		+15.0	-0.2	15.2	---	---	---
12		+14.9	-2.1	17.0	---	---	---
13		+13.6	+1.0	12.6	---	---	---
23		+14.1	-0.3	14.4	---	---	---
24		+13.5	-0.7	14.2	---	---	---
25		+13.1	-0.2	13.3	---	---	---
26		+14.0	-0.5	14.5	---	---	---
27		+13.6	+0.1	13.5	---	---	---
28		+14.5	+0.0	14.5	---	---	---
29		+13.1	-0.9	14.0	---	---	---
30		+12.8	-0.5	13.3	---	---	---
31		+13.5	-1.7	15.2	---	---	---
32		+13.2	-0.7	13.9	---	---	---
33		+13.4	-0.6	14.0	---	---	---
34		+13.3	-0.7	14.0	---	---	---
35		+13.9	-0.3	14.2	---	---	---
36		+13.6	-0.4	14.0	---	---	---
37		+13.4	+0.2	13.2	---	---	---
38		+14.0	-0.4	14.4	---	---	---
39		+13.9	-0.2	14.1	---	---	---
40		+14.0	+0.7	13.3	---	---	---
41		+14.8	-0.8	15.6	---	---	---
42		+14.2	-0.3	14.5	---	---	---
43		+14.7	+0.6	14.1	---	---	---
44		+14.6	+0.0	14.6	---	---	---
45		+15.0	+1.0	14.0	---	---	---
46		+15.7	+1.1	14.6	---	---	---
47		+15.2	+1.3	13.9	---	---	---
48		+15.2	+0.6	14.6	---	---	---
49		+14.6	+1.0	13.6	---	---	---
50		+15.7	+1.6	14.1	---	---	---
51		+15.1	+0.5	14.6	---	---	---
52		+15.4	+1.2	14.2	---	---	---
53		+14.9	+0.0	14.9	---	---	---
54		+14.5	+1.0	13.5	---	---	---
55		+15.1	+0.9	14.2	---	---	---
56		+15.2	+0.4	14.8	---	---	---
57		+15.2	+1.0	14.2	---	---	---
58		+15.9	+0.6	15.3	---	---	---
59		+14.7	+0.7	14.0	---	---	---
60		+15.4	+0.4	15.0	---	---	---
61		+15.0	+0.5	14.5	---	---	---
62		+14.3	+0.4	13.9	---	---	---
63		+15.2	-0.5	15.7	---	---	---
64		+14.7	+0.2	14.5	---	---	---
65		+15.3	+0.2	15.1	---	---	---
66		+14.3	-0.2	14.5	---	---	---
67		+14.8	+0.6	14.2	---	---	---
68		+15.6	-0.8	16.4	---	---	---
69		+14.3	-0.2	14.5	---	---	---
70		+15.5	+0.9	14.6	---	---	---
71		+14.5	+0.2	14.3	---	---	---
72		+14.7	+0.7	14.0	---	---	---
73		+14.3	+0.6	13.7	---	---	---
74		+14.0	-0.2	14.2	---	---	---
75		+14.9	-0.9	15.8	---	---	---
76		+13.4	-1.4	14.8	---	---	---
77		+14.0	-0.7	14.7	---	---	---
116		+15.8	+2.2	13.6	---	---	---

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+11.9 dBmV Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 58	4.0 dB Pass
Min Delta V/A:	6.5 dB	CH 13	12.6 dB Pass
Max Delta V/A:	17.0 dB	CH 12	17.0 dB Pass
Max Delta Adjacent Channels:	3.0 dB		Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Operator: 9694 File: TP02 Interval: 4  
 Date: 08/24/05 Time: 11:17:33 Temp: +88 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+12.8	-1.3	14.1	---	---	---
3		+13.3	-1.5	14.8	---	---	---
4		+12.8	-1.4	14.2	---	---	---
5		+13.5	-0.5	14.0	---	---	---
99		+12.4	-3.3	15.7	---	---	---
14		+11.8	-2.5	14.3	---	---	---
15		+12.7	-2.2	14.9	---	---	---
16		+12.4	-2.0	14.4	---	---	---
17		+12.8	-1.3	14.1	---	---	---
18		+13.5	-1.4	14.9	---	---	---
19		+13.1	-1.4	14.5	---	---	---
20		+12.6	-1.6	14.2	---	---	---
21		+13.6	-1.4	15.0	---	---	---
22		+12.5	-2.0	14.5	---	---	---
7		+14.1	+0.0	14.1	---	---	---
8		+12.8	-0.4	13.2	---	---	---
9		+13.6	+0.1	13.5	---	---	---
10		+14.1	+0.0	14.1	---	---	---
11		+14.6	-0.3	14.9	---	---	---
12		+15.0	-2.0	17.0	---	---	---
13		+13.9	+1.0	12.9	---	---	---
23		+14.2	-0.3	14.5	---	---	---
24		+13.8	-0.7	14.5	---	---	---
25		+13.2	-0.4	13.6	---	---	---
26		+14.3	-0.8	15.1	---	---	---
27		+14.1	+0.1	14.0	---	---	---
28		+14.6	-0.2	14.8	---	---	---
29		+13.6	-0.9	14.5	---	---	---
30		+13.1	-0.3	13.4	---	---	---
31		+13.4	-1.3	14.7	---	---	---
32		+13.2	-0.7	13.9	---	---	---
33		+13.4	-0.5	13.9	---	---	---
34		+13.4	-0.9	14.3	---	---	---
35		+14.3	-0.4	14.7	---	---	---
36		+13.6	-0.3	13.9	---	---	---
37		+13.5	+0.2	13.3	---	---	---
38		+14.1	-0.4	14.5	---	---	---
39		+14.2	+0.1	14.1	---	---	---
40		+14.3	+0.7	13.6	---	---	---
41		+14.9	-0.7	15.6	---	---	---
42		+14.3	-0.6	14.9	---	---	---
43		+15.1	+0.8	14.3	---	---	---
44		+14.6	+0.3	14.3	---	---	---
45		+15.0	+0.9	14.1	---	---	---
46		+15.7	+1.3	14.4	---	---	---
47		+15.2	+1.3	13.9	---	---	---
48		+15.2	+0.8	14.4	---	---	---
49		+14.7	+0.9	13.8	---	---	---
50		+15.5	+2.1	13.4	---	---	---
51		+15.5	+0.4	15.1	---	---	---
52		+15.4	+1.4	14.0	---	---	---
53		+15.4	+0.3	15.1	---	---	---
54		+14.8	+1.1	13.7	---	---	---
55		+15.3	+0.8	14.5	---	---	---
56		+14.9	+0.4	14.5	---	---	---
57		+15.3	+1.1	14.2	---	---	---
58		+15.7	+0.9	14.8	---	---	---
59		+14.9	+0.9	14.0	---	---	---
60		+15.4	+0.4	15.0	---	---	---
61		+14.9	+0.6	14.3	---	---	---
62		+14.4	+0.3	14.1	---	---	---
63		+15.0	+0.0	15.0	---	---	---
64		+14.9	+0.2	14.7	---	---	---
65		+15.6	+0.0	15.6	---	---	---
66		+14.4	+0.1	14.3	---	---	---
67		+14.8	+0.6	14.2	---	---	---
68		+15.6	-0.7	16.3	---	---	---
69		+14.1	+0.0	14.1	---	---	---
70		+15.2	+1.0	14.2	---	---	---
71		+14.7	+0.5	14.2	---	---	---
72		+14.6	+0.9	13.7	---	---	---
73		+14.6	+0.4	14.2	---	---	---
74		+14.0	-0.2	14.2	---	---	---
75		+15.2	-0.7	15.9	---	---	---
76		+13.4	-1.2	14.6	---	---	---
77		+14.0	-0.6	14.6	---	---	---
116		+16.0	+2.4	13.6	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+11.8 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 116	4.2 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.9 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	17.0 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill / Henderson      Highest Band Pass: 770 MHz  
 Test Point Location: HWY 561      Test Point Number: 3  
 Date of Test: 8-24-05      Time: 7:39      Temperature: 78°  
 Tech(s) Performing Test: David Williamson      Date Begun: 8-24

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer	<u>SDA 5000</u>	<u>6513491</u>	<u>7-11-05</u>
FSM			<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.  
 Date/Time: 8/24/7:39      8/24/13:46      8/24/19:56      Was the Specification Met? Yes  No

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).  

Maximum Video Carrier Level	<u>14.1</u>	<u>14.4</u>	<u>12.7</u>	<u>13.4</u>
Minimum Video Carrier Level	<u>10.7</u>	<u>9.9</u>	<u>9.7</u>	<u>9.7</u>
Variation Highest & Lowest Video Levels	<u>3.4</u>	<u>4.6</u>	<u>3.5</u>	<u>3.7</u>

 Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5      Was the specification met? Yes  No   
 Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.  
 Was the Specification Met? Yes  No   
 Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?  
 Was this Specification Met? Yes  No   
 Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.  
 Was this Specification Met? Yes  No   
 Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB  
 Was this Specification Met? Yes  No   
 Justification for any variation greater then 8 dB:  
 Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.  
 Was this Specification Met? Yes  No   
 Justification for any variation greater then 8 dB:

WVG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05

Operator: 9694 File: TP03 Interval: 1  
 Date: 08/24/05 Time: 07:39:31 Temp: +78 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+11.6	-2.0	13.6	---	---	---
3		+12.1	-2.5	14.6	---	---	---
4		+11.8	-2.3	14.1	---	---	---
5		+12.4	-1.0	13.4	---	---	---
99		+11.7	-3.9	15.6	---	---	---
14		+10.7	-3.4	14.1	---	---	---
15		+11.5	-3.1	14.6	---	---	---
16		+11.3	-2.9	14.2	---	---	---
17		+11.0	-2.8	13.8	---	---	---
18		+12.7	-2.5	15.2	---	---	---
19		+11.7	-2.0	13.7	---	---	---
20		+11.4	-2.4	13.8	---	---	---
21		+12.6	-2.1	14.7	---	---	---
22		+11.8	-2.6	14.4	---	---	---
7		+12.8	-0.9	13.7	---	---	---
8		+12.2	-0.9	13.1	---	---	---
9		+12.6	-1.2	13.8	---	---	---
10		+13.2	-1.0	14.2	---	---	---
11		+13.8	-1.0	14.8	---	---	---
12		+13.1	-2.9	16.0	---	---	---
13		+12.1	-0.3	12.4	---	---	---
23		+13.1	-1.2	14.3	---	---	---
24		+12.5	-1.7	14.2	---	---	---
25		+11.6	-1.5	13.1	---	---	---
26		+13.5	-1.6	15.1	---	---	---
27		+12.4	-0.7	13.1	---	---	---
28		+12.8	-1.4	14.2	---	---	---
29		+11.7	-2.2	13.9	---	---	---
30		+11.9	-1.0	12.9	---	---	---
31		+12.3	-2.3	14.6	---	---	---
32		+11.5	-2.2	13.7	---	---	---
33		+12.3	-1.5	13.8	---	---	---
34		+12.1	-2.1	14.2	---	---	---
35		+12.3	-1.6	13.9	---	---	---
36		+12.5	-1.6	14.1	---	---	---
37		+12.1	-0.7	12.8	---	---	---
38		+12.6	-1.5	14.1	---	---	---
39		+12.7	-1.0	13.7	---	---	---
40		+12.6	-0.5	13.1	---	---	---
41		+13.3	-1.9	15.2	---	---	---
42		+12.7	-1.7	14.4	---	---	---
43		+13.4	-0.9	14.3	---	---	---
44		+13.3	-1.0	14.3	---	---	---
45		+13.4	-0.5	13.9	---	---	---
46		+14.1	+0.0	14.1	---	---	---
47		+13.2	-0.2	13.4	---	---	---
48		+13.1	-0.6	13.7	---	---	---
49		+12.8	-0.6	13.4	---	---	---
50		+14.0	+0.5	13.5	---	---	---
51		+14.0	-1.0	15.0	---	---	---
52		+13.8	+0.0	13.8	---	---	---
53		+13.5	-1.3	14.8	---	---	---
54		+13.1	+0.2	12.9	---	---	---
55		+12.9	-1.0	13.9	---	---	---
56		+13.1	-1.1	14.2	---	---	---
57		+13.0	-0.3	13.3	---	---	---
58		+13.5	-1.3	14.8	---	---	---
59		+12.8	-1.0	13.8	---	---	---
60		+13.5	-1.0	14.5	---	---	---
61		+13.3	-1.0	14.3	---	---	---
62		+12.6	-1.1	13.7	---	---	---
63		+13.3	-1.8	15.1	---	---	---
64		+13.0	-1.2	14.2	---	---	---
65		+13.8	-1.8	15.6	---	---	---
66		+12.4	-1.6	14.0	---	---	---
67		+12.9	-1.2	14.1	---	---	---
68		+13.6	-2.3	15.9	---	---	---
69		+12.4	-1.3	13.7	---	---	---
70		+14.0	-0.6	14.6	---	---	---
71		+13.1	-0.8	13.9	---	---	---
72		+12.8	-0.6	13.4	---	---	---
73		+12.9	-1.5	14.4	---	---	---
74		+12.4	-1.2	13.6	---	---	---
75		+13.2	-2.3	15.5	---	---	---
76		+11.7	-3.1	14.8	---	---	---
77		+12.0	-2.4	14.4	---	---	---
116		+13.6	+0.6	13.0	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+10.7 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 46	3.4 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.4 dB	Pass
Max Delta V/A:	17.0 dB	CH 68	16.0 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WWG AUTO TEST REPORT  
 Model: SDA-5000

Serial No: 6313491

Page 1  
 Cal Date: 07/11/05

Operator: 9694  
 Date: 08/24/05

File: TP03  
 Time: 13:48:00

Interval: 2  
 Temp: +91 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Rum (%)	Mod (%)
2		+9.9	-4.1	14.0	---	---	---
3		+11.0	-2.1	13.1	---	---	---
4		+11.5	-3.5	15.0	---	---	---
5		+12.3	-1.0	13.3	---	---	---
99		+11.7	-3.8	15.5	---	---	---
14		+10.8	-3.4	14.2	---	---	---
15		+11.7	-3.1	14.8	---	---	---
16		+11.5	-2.8	14.3	---	---	---
17		+11.1	-2.8	13.9	---	---	---
18		+12.7	-2.5	15.2	---	---	---
19		+11.7	-2.2	13.9	---	---	---
20		+11.2	-2.4	13.6	---	---	---
21		+12.7	-2.2	14.9	---	---	---
22		+11.8	-2.6	14.4	---	---	---
7		+12.8	-0.9	13.7	---	---	---
8		+12.4	-1.0	13.4	---	---	---
9		+12.3	-1.0	13.3	---	---	---
10		+12.8	-0.9	13.7	---	---	---
11		+12.7	-1.1	13.8	---	---	---
12		+13.4	-2.8	16.2	---	---	---
13		+12.1	-0.3	12.4	---	---	---
23		+13.2	-1.3	14.5	---	---	---
24		+12.5	-1.5	14.0	---	---	---
25		+11.6	-1.3	12.9	---	---	---
26		+13.0	-1.6	14.6	---	---	---
27		+12.7	-0.7	13.4	---	---	---
28		+12.8	-1.3	14.1	---	---	---
29		+11.7	-2.3	14.0	---	---	---
30		+11.6	-1.2	12.8	---	---	---
31		+12.1	-2.5	14.6	---	---	---
32		+11.8	-2.2	14.0	---	---	---
33		+11.9	-1.8	13.7	---	---	---
34		+11.9	-1.9	13.8	---	---	---
35		+12.7	-1.8	14.5	---	---	---
36		+12.4	-1.4	13.8	---	---	---
37		+12.2	-0.9	13.1	---	---	---
38		+12.5	-1.6	14.1	---	---	---
39		+12.6	-1.0	13.6	---	---	---
40		+12.5	-0.5	13.0	---	---	---
41		+13.4	-1.9	15.3	---	---	---
42		+12.8	-1.8	14.6	---	---	---
43		+13.6	-0.9	14.5	---	---	---
44		+13.1	-0.9	14.0	---	---	---
45		+13.7	-0.4	14.1	---	---	---
46		+14.4	-0.1	14.5	---	---	---
47		+13.7	+0.0	13.7	---	---	---
48		+13.3	-0.6	13.9	---	---	---
49		+12.8	-0.7	13.5	---	---	---
50		+13.8	+0.3	13.5	---	---	---
51		+13.8	-0.8	14.6	---	---	---
52		+13.6	+0.1	13.5	---	---	---
53		+13.6	-1.2	14.8	---	---	---
54		+13.1	-0.1	13.2	---	---	---
55		+13.1	-0.7	13.8	---	---	---
56		+13.4	-1.2	14.6	---	---	---
57		+13.6	-0.3	13.9	---	---	---
58		+13.7	-1.1	14.8	---	---	---
59		+12.8	-0.9	13.7	---	---	---
60		+13.4	-0.7	14.1	---	---	---
61		+12.9	-0.8	13.7	---	---	---
62		+13.0	-1.1	14.1	---	---	---
63		+13.4	-1.8	15.2	---	---	---
64		+13.2	-1.1	14.3	---	---	---
65		+14.1	-1.5	15.6	---	---	---
66		+12.7	-1.6	14.3	---	---	---
67		+13.1	-0.8	13.9	---	---	---
68		+14.0	-2.2	16.2	---	---	---
69		+12.6	-1.3	13.9	---	---	---
70		+13.5	-0.3	13.8	---	---	---
71		+13.2	-0.8	14.0	---	---	---
72		+13.2	-1.0	14.2	---	---	---
73		+12.8	-1.4	14.2	---	---	---
74		+12.4	-1.4	13.8	---	---	---
75		+13.4	-2.3	15.7	---	---	---
76		+11.8	-3.0	14.8	---	---	---
77		+11.9	-2.0	13.9	---	---	---
116		+14.0	+0.3	13.2	---	---	---

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level:	+3.0 dBmV	CH 2 +9.9 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 2 & 46 4.6 dB	Pass
Min Delta V/A:	5.5 dB	CH 13 12.4 dB	Pass
Max Delta V/A:	17.0 dB	CH 68 16.2 dB	Pass
Max Delta Adjacent Channels:	3.0 dB		Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Operator: 9694 File: TP03 Interval: 3  
 Date: 08/24/05 Time: 19:56:26 Temp: +85 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+9.7	-3.8	13.5	---	---	---
3		+10.2	-4.3	14.5	---	---	---
4		+9.4	-4.4	13.8	---	---	---
5		+10.5	-3.3	13.8	---	---	---
99		+9.9	-5.8	15.7	---	---	---
14		+8.7	-5.6	14.3	---	---	---
15		+9.9	-5.2	15.1	---	---	---
16		+9.4	-4.8	14.2	---	---	---
17		+8.9	-4.8	13.7	---	---	---
18		+10.5	-4.4	14.9	---	---	---
19		+9.7	-4.3	14.0	---	---	---
20		+9.5	-3.9	13.4	---	---	---
21		+10.7	-4.3	15.0	---	---	---
22		+9.9	-4.6	14.5	---	---	---
7		+11.0	-2.8	13.8	---	---	---
8		+10.5	-2.8	13.3	---	---	---
9		+10.6	-3.0	13.6	---	---	---
10		+11.2	-2.9	14.1	---	---	---
11		+12.0	-2.8	14.8	---	---	---
12		+11.3	-4.7	16.0	---	---	---
13		+10.3	-2.3	12.6	---	---	---
23		+11.2	-3.1	14.3	---	---	---
24		+10.8	-3.6	14.4	---	---	---
25		+10.2	-3.3	13.5	---	---	---
26		+10.8	-3.4	14.2	---	---	---
27		+10.7	-2.4	13.1	---	---	---
28		+11.1	-3.4	14.5	---	---	---
29		+9.7	-4.3	14.0	---	---	---
30		+9.5	-3.1	12.6	---	---	---
31		+10.4	-4.2	14.6	---	---	---
32		+9.7	-4.3	14.0	---	---	---
33		+9.8	-3.7	13.5	---	---	---
34		+10.3	-4.0	14.3	---	---	---
35		+10.4	-3.8	14.2	---	---	---
36		+10.4	-3.6	14.0	---	---	---
37		+10.2	-2.8	13.0	---	---	---
38		+10.6	-3.7	14.3	---	---	---
39		+10.8	-3.1	13.9	---	---	---
40		+10.4	-2.4	12.8	---	---	---
41		+11.6	-3.8	15.4	---	---	---
42		+10.9	-3.5	14.4	---	---	---
43		+11.1	-3.0	14.1	---	---	---
44		+10.8	-3.2	14.0	---	---	---
45		+11.6	-2.4	14.0	---	---	---
46		+11.9	-2.0	13.9	---	---	---
47		+11.6	-2.0	13.6	---	---	---
48		+11.3	-2.5	13.8	---	---	---
49		+10.9	-2.6	13.5	---	---	---
50		+11.9	-1.5	13.4	---	---	---
51		+11.8	-2.9	14.7	---	---	---
52		+12.0	-1.9	13.9	---	---	---
53		+11.6	-3.2	14.8	---	---	---
54		+11.3	-2.0	13.3	---	---	---
55		+11.1	-2.8	13.9	---	---	---
56		+11.3	-2.8	14.1	---	---	---
57		+11.6	-2.4	14.0	---	---	---
58		+11.7	-3.0	14.7	---	---	---
59		+10.5	-3.0	13.5	---	---	---
60		+11.7	-2.8	14.5	---	---	---
61		+11.4	-2.9	14.3	---	---	---
62		+10.8	-3.3	14.1	---	---	---
63		+11.4	-3.9	15.3	---	---	---
64		+11.2	-3.1	14.3	---	---	---
65		+11.8	-3.7	15.5	---	---	---
66		+10.6	-3.6	14.2	---	---	---
67		+11.5	-2.8	14.3	---	---	---
68		+12.1	-4.5	16.6	---	---	---
69		+10.7	-3.2	13.9	---	---	---
70		+11.8	-2.5	14.3	---	---	---
71		+11.0	-2.6	13.6	---	---	---
72		+11.4	-2.9	14.3	---	---	---
73		+11.1	-3.4	14.5	---	---	---
74		+10.8	-3.5	14.3	---	---	---
75		+11.4	-4.2	15.6	---	---	---
76		+9.8	-5.0	14.8	---	---	---
77		+10.0	-4.0	14.0	---	---	---
116		+12.2	-1.0	13.2	---	---	---

LIMIT CHECK		Limit	Actual		
Min Video Carrier Level:		+3.0 dBmV	CH 14	+8.7 dBmV	Pass
Max Delta Video Levels:		15.0 dB	CH 14 & 116	3.5 dB	Pass
Min Delta V/A:		6.5 dB	CH 30	12.6 dB	Pass
Max Delta V/A:		17.0 dB	CH 68	16.6 dB	Pass
Max Delta Adjacent Channels:		3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Operator: 9694 File: TP03 Interval: 4  
 Date: 08/25/05 Time: 01:58:36 Temp: +80 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+10.6	-3.2	13.8	---	---	---
3		+11.1	-3.5	14.6	---	---	---
4		+10.4	-3.4	13.8	---	---	---
5		+11.4	-1.9	13.3	---	---	---
99		+10.6	-4.9	15.5	---	---	---
14		+9.7	-4.6	14.3	---	---	---
15		+10.5	-4.2	14.7	---	---	---
16		+10.0	-4.2	14.2	---	---	---
17		+10.1	-3.7	13.8	---	---	---
18		+11.5	-3.6	15.1	---	---	---
19		+11.0	-3.3	14.3	---	---	---
20		+10.8	-3.6	14.4	---	---	---
21		+11.5	-3.4	14.9	---	---	---
22		+10.8	-3.6	14.4	---	---	---
7		+11.6	-2.0	13.6	---	---	---
8		+10.8	-1.9	12.7	---	---	---
9		+10.9	-2.0	12.9	---	---	---
10		+11.8	-2.0	13.8	---	---	---
11		+11.9	-2.0	13.9	---	---	---
12		+12.1	-4.0	16.1	---	---	---
13		+11.1	-1.2	12.3	---	---	---
23		+12.3	-2.3	14.6	---	---	---
24		+11.4	-2.7	14.1	---	---	---
25		+11.0	-2.7	13.7	---	---	---
26		+12.1	-2.7	14.8	---	---	---
27		+11.3	-1.6	12.9	---	---	---
28		+11.8	-2.2	14.0	---	---	---
29		+10.8	-3.3	14.1	---	---	---
30		+10.7	-2.2	12.9	---	---	---
31		+11.1	-3.2	14.3	---	---	---
32		+10.7	-3.1	13.3	---	---	---
33		+10.9	-2.5	13.4	---	---	---
34		+10.8	-3.2	14.0	---	---	---
35		+11.5	-2.8	14.3	---	---	---
36		+11.4	-2.5	13.9	---	---	---
37		+11.1	-1.8	12.9	---	---	---
38		+11.7	-2.3	14.0	---	---	---
39		+12.1	-1.9	14.0	---	---	---
40		+11.5	-1.5	13.0	---	---	---
41		+12.4	-2.9	15.3	---	---	---
42		+11.6	-2.8	14.4	---	---	---
43		+12.6	-1.5	14.1	---	---	---
44		+12.3	-2.0	14.3	---	---	---
45		+13.0	-1.3	14.3	---	---	---
46		+13.4	-0.9	14.3	---	---	---
47		+12.6	-1.0	13.6	---	---	---
48		+12.7	-1.5	14.2	---	---	---
49		+12.2	-1.5	13.7	---	---	---
50		+13.0	-0.5	13.5	---	---	---
51		+12.7	-1.8	14.5	---	---	---
52		+12.7	-0.9	13.6	---	---	---
53		+12.6	-2.2	14.8	---	---	---
54		+12.3	-1.2	13.5	---	---	---
55		+12.0	-1.9	13.9	---	---	---
56		+12.3	-2.0	14.3	---	---	---
57		+12.6	-1.1	13.7	---	---	---
58		+12.6	-1.8	14.4	---	---	---
59		+11.8	-1.7	13.5	---	---	---
60		+12.6	-1.9	14.5	---	---	---
61		+12.5	-1.8	14.3	---	---	---
62		+11.5	-2.0	13.5	---	---	---
63		+12.3	-2.8	15.1	---	---	---
64		+12.3	-2.2	14.5	---	---	---
65		+12.7	-2.6	15.3	---	---	---
66		+11.5	-2.5	14.0	---	---	---
67		+12.4	-1.9	14.3	---	---	---
68		+13.0	-3.4	16.4	---	---	---
69		+11.9	-2.1	14.0	---	---	---
70		+12.6	-1.5	14.1	---	---	---
71		+12.6	-1.6	14.2	---	---	---
72		+12.2	-1.8	14.0	---	---	---
73		+11.9	-2.4	14.3	---	---	---
74		+11.4	-2.3	13.7	---	---	---
75		+12.4	-3.2	15.6	---	---	---
76		+11.0	-4.0	15.0	---	---	---
77		+11.0	-2.9	13.9	---	---	---
116		+13.2	+0.1	13.1	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+9.7 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 46	3.7 dB	Pass
Min Delta V/A:	6.5 dB	CH 13	12.4 dB	Pass
Max Delta V/A:	17.0 dB	CH 68	16.4 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill / Henderson      Highest Band Pass: 770 MHz  
 Test Point Location: Southern Mill      Test Point Number: 4  
 Date of Test: 8-28-07      Time: 12:12      Temperature: 87°  
 Tech(s) Performing Test: David Williamson      Date Begun: 8-28

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer	<u>SDA 5002</u>	<u>6313191</u>	<u>7-11-05</u>
FSM			<u>N/A</u>

Test Setup used: A 30 meeter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

Date/Time	Was the Specification Met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<u>8/28/07 12:12</u>	<u>5:28:02</u>	<u>8:29:03</u>	<u>8:29:07</u>	

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>17.6</u>	<u>18.1</u>	<u>18.1</u>	<u>17.6</u>
Minimum Video Carrier Level	<u>12.4</u>	<u>12.4</u>	<u>12.4</u>	<u>12.1</u>
Variation Highest & Lowest Video Levels	<u>5.2</u>	<u>5.7</u>	<u>5.7</u>	<u>5.7</u>

Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5      Was the specification met? Yes  No

Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Was the Specification Met? Yes  No

Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Was this Specification Met? Yes  No

Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Was this Specification Met? Yes  No

Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB:

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB:

Operator: 9694 File: TP04 Interval: 1  
 Date: 08/28/05 Time: 12:12:02 Temp: +87 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+14.4	+0.9	13.5	---	---	---
3		+14.8	+0.6	14.2	---	---	---
4		+14.3	+0.2	14.1	---	---	---
5		+14.4	+0.8	13.6	---	---	---
99		+12.5	-2.1	14.6	---	---	---
14		+12.4	-1.8	14.2	---	---	---
15		+13.2	-1.7	14.9	---	---	---
16		+12.4	-1.4	13.8	---	---	---
17		+12.8	-1.3	14.1	---	---	---
18		+14.0	-0.9	14.9	---	---	---
19		+14.1	-0.3	14.4	---	---	---
20		+13.0	-0.9	13.9	---	---	---
21		+14.1	-0.4	14.5	---	---	---
22		+13.4	-1.3	14.7	---	---	---
7		+14.4	+0.9	13.5	---	---	---
8		+13.9	+0.3	13.6	---	---	---
9		+13.6	+0.8	12.8	---	---	---
10		+15.1	+1.5	13.6	---	---	---
11		+14.5	-0.5	15.0	---	---	---
12		+14.3	-0.9	15.2	---	---	---
13		+14.8	+2.2	12.6	---	---	---
23		+15.2	+0.2	15.0	---	---	---
24		+14.6	+0.6	14.0	---	---	---
25		+14.4	+0.7	13.7	---	---	---
26		+15.3	+0.6	14.7	---	---	---
27		+14.6	+1.0	13.6	---	---	---
28		+14.8	+1.0	13.8	---	---	---
29		+14.5	-0.2	14.7	---	---	---
30		+13.9	+0.1	13.8	---	---	---
31		+13.9	-0.2	14.1	---	---	---
32		+13.7	-0.3	14.0	---	---	---
33		+13.3	-0.6	13.9	---	---	---
34		+13.1	-0.1	13.2	---	---	---
35		+14.1	-0.4	14.5	---	---	---
36		+13.4	-0.5	13.9	---	---	---
37		+12.6	+0.0	12.6	---	---	---
38		+13.4	-0.2	13.6	---	---	---
39		+14.1	+0.7	13.4	---	---	---
40		+14.0	+0.4	13.6	---	---	---
41		+14.1	+0.3	13.8	---	---	---
42		+15.1	-0.1	15.2	---	---	---
43		+14.4	-0.1	14.5	---	---	---
44		+14.6	+0.5	14.1	---	---	---
45		+15.0	+0.8	14.2	---	---	---
46		+15.9	+1.5	14.4	---	---	---
47		+14.8	+1.3	13.5	---	---	---
48		+14.7	+1.1	13.6	---	---	---
49		+14.7	+0.9	13.8	---	---	---
50		+15.5	+1.6	13.9	---	---	---
51		+15.1	+0.8	14.3	---	---	---
52		+15.2	+0.7	14.5	---	---	---
53		+14.3	-0.1	14.4	---	---	---
54		+14.4	+1.2	13.2	---	---	---
55		+14.3	+0.3	14.0	---	---	---
56		+14.7	+0.4	14.3	---	---	---
57		+15.3	+1.3	14.0	---	---	---
58		+15.6	+1.2	14.4	---	---	---
59		+15.4	+1.0	14.4	---	---	---
60		+15.5	+0.5	15.0	---	---	---
61		+15.1	+1.0	14.1	---	---	---
62		+14.5	+0.3	14.2	---	---	---
63		+14.8	+0.1	14.7	---	---	---
64		+15.0	-0.1	15.1	---	---	---
65		+14.5	-0.4	14.9	---	---	---
66		+14.0	+0.1	13.9	---	---	---
67		+14.3	-0.2	14.5	---	---	---
68		+14.9	-0.1	15.0	---	---	---
69		+14.7	+0.0	14.7	---	---	---
70		+14.8	+1.4	13.4	---	---	---
71		+15.1	+1.5	13.6	---	---	---
72		+15.6	+1.9	13.7	---	---	---
73		+15.4	+2.3	13.1	---	---	---
74		+15.9	+1.1	14.8	---	---	---
75		+16.4	+2.1	14.3	---	---	---
76		+16.1	+1.0	15.1	---	---	---
77		+15.8	+1.4	14.4	---	---	---
116		+17.6	+2.8	14.8	---	---	---

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level:	+3.0 dBmV	CH 14 +12.4 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 116 5.2 dB	Pass
Min Delta V/A:	6.5 dB	CH 37 12.6 dB	Pass
Max Delta V/A:	17.0 dB	CH 42 15.2 dB	Pass
Max Delta Adjacent Channels:	3.0 dB		Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WVG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05  
 Operator: 9694 File: TP04 Interval: 2  
 Date: 08/28/05 Time: 18:02:13 Temp: +90 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+14.4	+0.6	13.8	---	---	---
3		+14.5	+0.3	14.2	---	---	---
4		+14.1	-0.2	14.3	---	---	---
5		+14.3	+0.6	13.7	---	---	---
99		+13.1	-2.0	15.1	---	---	---
14		+12.4	-1.6	14.0	---	---	---
15		+12.9	-1.9	14.8	---	---	---
16		+12.7	-1.5	14.2	---	---	---
17		+12.6	-1.4	14.0	---	---	---
18		+14.0	-1.1	15.1	---	---	---
19		+13.1	-0.7	13.8	---	---	---
20		+12.9	-0.7	13.6	---	---	---
21		+14.3	-0.2	14.5	---	---	---
22		+13.2	-1.4	14.6	---	---	---
7		+14.2	+0.7	13.5	---	---	---
8		+13.8	+0.3	13.5	---	---	---
9		+13.3	+0.5	12.8	---	---	---
10		+14.7	+1.2	13.5	---	---	---
11		+14.9	-0.4	15.3	---	---	---
12		+14.3	-1.0	15.3	---	---	---
13		+14.8	+2.0	12.8	---	---	---
23		+15.2	+0.3	14.9	---	---	---
24		+14.7	+0.6	14.1	---	---	---
25		+14.3	+0.8	13.5	---	---	---
26		+15.2	+0.4	14.8	---	---	---
27		+14.8	+0.7	14.1	---	---	---
28		+15.0	+0.9	14.1	---	---	---
29		+14.1	-0.1	14.2	---	---	---
30		+13.3	+0.2	13.1	---	---	---
31		+13.5	-0.4	13.9	---	---	---
32		+14.4	-0.2	14.6	---	---	---
33		+13.2	-0.6	13.8	---	---	---
34		+13.3	-0.2	13.5	---	---	---
35		+14.1	-0.5	14.6	---	---	---
36		+13.3	-0.6	13.9	---	---	---
37		+13.2	+0.1	13.1	---	---	---
38		+13.5	-0.2	13.7	---	---	---
39		+14.3	+0.7	13.6	---	---	---
40		+13.7	+0.3	13.4	---	---	---
41		+14.3	+0.1	14.2	---	---	---
42		+15.2	-0.1	15.3	---	---	---
43		+14.3	+0.0	14.3	---	---	---
44		+13.9	+0.5	13.4	---	---	---
45		+15.2	+0.9	14.3	---	---	---
46		+16.1	+1.5	14.6	---	---	---
47		+15.4	+1.4	14.0	---	---	---
48		+14.8	+1.5	13.3	---	---	---
49		+14.8	+1.2	13.6	---	---	---
50		+15.4	+1.7	13.7	---	---	---
51		+15.1	+1.1	14.0	---	---	---
52		+15.6	+1.1	14.5	---	---	---
53		+14.4	+0.0	14.4	---	---	---
54		+14.7	+1.3	13.4	---	---	---
55		+14.4	+0.8	13.6	---	---	---
56		+14.9	+0.4	14.5	---	---	---
57		+15.4	+1.8	13.6	---	---	---
58		+15.6	+1.1	14.5	---	---	---
59		+15.4	+1.1	14.3	---	---	---
60		+15.9	+1.1	14.8	---	---	---
61		+15.6	+1.4	14.2	---	---	---
62		+14.7	+0.7	14.0	---	---	---
63		+15.1	+0.4	14.7	---	---	---
64		+15.4	+0.2	15.2	---	---	---
65		+14.8	-0.1	14.9	---	---	---
66		+14.3	+0.5	13.8	---	---	---
67		+14.7	+0.0	14.7	---	---	---
68		+15.1	+0.2	14.9	---	---	---
69		+15.0	+0.2	14.8	---	---	---
70		+15.2	+1.8	13.4	---	---	---
71		+15.7	+1.7	14.0	---	---	---
72		+16.0	+2.1	13.9	---	---	---
73		+15.7	+2.6	13.1	---	---	---
74		+15.7	+1.3	14.4	---	---	---
75		+16.9	+2.2	14.7	---	---	---
76		+16.2	+1.2	15.0	---	---	---
77		+16.1	+1.7	14.4	---	---	---
116		+18.1	+3.3	14.3	---	---	---

**LIMIT CHECK** Limit Actual  
 Min Video Carrier Level: +3.0 dBmV CH 14 +12.4 dBmV Pass  
 Max Delta Video Levels: 15.0 dB CH 14 & 116 5.7 dB Pass  
 Min Delta V/A: 6.5 dB CH 13 12.8 dB Pass  
 Max Delta V/A: 17.0 dB CH 42 15.3 dB Pass  
 Max Delta Adjacent Channels: 3.0 dB Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Operator: 9694 File: TP04 Interval: 3  
 Date: 08/29/05 Time: 00:03:10 Temp: +78 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+14.5	+0.7	13.8	---	---	---
3		+14.7	+0.6	14.1	---	---	---
4		+14.1	+0.0	14.1	---	---	---
5		+14.2	+0.8	13.4	---	---	---
99		+12.7	-1.9	14.6	---	---	---
14		+12.4	-1.9	14.3	---	---	---
15		+12.9	-1.8	14.7	---	---	---
16		+12.7	-1.1	13.8	---	---	---
17		+12.8	-1.2	14.0	---	---	---
18		+13.8	-0.9	14.7	---	---	---
19		+13.3	-0.7	14.0	---	---	---
20		+13.0	-0.9	13.9	---	---	---
21		+14.2	-0.6	14.8	---	---	---
22		+13.2	-1.4	14.6	---	---	---
7		+14.3	+0.8	13.5	---	---	---
8		+13.6	+0.3	13.3	---	---	---
9		+13.7	+0.6	13.1	---	---	---
10		+15.2	+1.4	13.8	---	---	---
11		+15.0	-0.4	15.4	---	---	---
12		+14.5	-0.9	15.4	---	---	---
13		+15.1	+2.0	13.1	---	---	---
23		+15.2	+0.3	14.9	---	---	---
24		+14.6	+0.7	13.9	---	---	---
25		+14.3	+0.7	13.6	---	---	---
26		+15.1	+0.4	14.7	---	---	---
27		+14.8	+0.9	13.9	---	---	---
28		+14.8	+1.1	13.7	---	---	---
29		+14.1	-0.2	14.3	---	---	---
30		+13.1	+0.2	12.9	---	---	---
31		+13.5	-0.4	13.9	---	---	---
32		+13.9	+0.0	13.9	---	---	---
33		+13.3	-0.2	13.5	---	---	---
34		+13.0	-0.2	13.2	---	---	---
35		+14.2	-0.5	14.7	---	---	---
36		+13.4	-0.6	14.0	---	---	---
37		+13.3	+0.1	13.2	---	---	---
38		+13.4	-0.2	13.6	---	---	---
39		+14.8	+0.6	14.2	---	---	---
40		+14.0	+0.4	13.6	---	---	---
41		+14.0	+0.1	13.9	---	---	---
42		+14.9	-0.3	15.2	---	---	---
43		+14.4	-0.1	14.5	---	---	---
44		+14.3	+0.4	13.9	---	---	---
45		+15.1	+0.7	14.4	---	---	---
46		+15.7	+1.6	14.1	---	---	---
47		+15.0	+1.4	13.6	---	---	---
48		+15.0	+1.3	13.7	---	---	---
49		+14.7	+1.4	13.3	---	---	---
50		+15.9	+2.0	13.9	---	---	---
51		+14.9	+1.1	13.8	---	---	---
52		+15.6	+1.1	14.5	---	---	---
53		+14.8	+0.1	14.7	---	---	---
54		+14.8	+1.6	13.2	---	---	---
55		+14.4	+0.7	13.7	---	---	---
56		+14.5	+0.4	14.1	---	---	---
57		+15.6	+1.6	14.0	---	---	---
58		+15.5	+1.1	14.4	---	---	---
59		+15.4	+1.1	14.3	---	---	---
60		+15.5	+0.9	14.6	---	---	---
61		+15.6	+1.3	14.3	---	---	---
62		+15.0	+0.4	14.6	---	---	---
63		+15.4	+0.6	14.8	---	---	---
64		+15.4	+0.2	15.2	---	---	---
65		+14.5	+0.0	14.5	---	---	---
66		+14.3	+0.2	14.1	---	---	---
67		+14.7	+0.1	14.6	---	---	---
68		+15.3	-0.1	15.4	---	---	---
69		+14.7	+0.3	14.4	---	---	---
70		+15.3	+1.8	13.5	---	---	---
71		+15.7	+1.8	13.9	---	---	---
72		+15.9	+2.2	13.7	---	---	---
73		+15.8	+2.7	13.1	---	---	---
74		+16.0	+1.5	14.5	---	---	---
75		+17.0	+2.3	14.7	---	---	---
76		+16.2	+1.3	14.9	---	---	---
77		+15.4	+1.7	13.7	---	---	---
116		+18.1	+3.4	14.7	---	---	---

LIMIT CHECK		Limit	Actual	Pass
Min Video Carrier Level:	+3.0 dBmV	CH 14	+12.4 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 116	5.7 dB	Pass
Min Delta V/A:	6.5 dB	CH 30	12.9 dB	Pass
Max Delta V/A:	17.0 dB	CH 68	15.4 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05

Operator: 9694 File: TP04 Interval: 4  
 Date: 08/29/05 Time: 06:07:12 Temp: +74 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+14.5	+0.6	13.9	---	---	---
3		+14.7	+0.5	14.2	---	---	---
4		+14.1	-0.1	14.2	---	---	---
5		+14.1	+0.8	13.3	---	---	---
99		+12.8	-1.9	14.7	---	---	---
14		+12.1	-2.0	14.1	---	---	---
15		+12.9	-1.9	14.8	---	---	---
16		+12.2	-1.1	13.3	---	---	---
17		+12.7	-1.4	14.1	---	---	---
18		+13.9	-1.0	14.9	---	---	---
19		+13.1	-0.7	13.8	---	---	---
20		+12.7	-1.0	13.7	---	---	---
21		+14.1	-0.6	14.7	---	---	---
22		+13.1	-1.4	14.5	---	---	---
7		+14.2	+0.8	13.4	---	---	---
8		+13.5	+0.2	13.3	---	---	---
9		+13.6	+0.5	13.1	---	---	---
10		+14.9	+1.2	13.7	---	---	---
11		+14.9	-0.3	15.2	---	---	---
12		+14.6	-0.9	15.5	---	---	---
13		+14.7	+2.0	12.7	---	---	---
23		+15.2	+0.2	15.0	---	---	---
24		+14.8	+0.6	14.2	---	---	---
25		+14.2	+0.6	13.6	---	---	---
26		+15.4	+0.3	15.1	---	---	---
27		+14.8	+0.8	14.0	---	---	---
28		+14.7	+1.0	13.7	---	---	---
29		+13.9	-0.3	14.2	---	---	---
30		+13.2	+0.1	13.1	---	---	---
31		+13.5	-0.4	13.9	---	---	---
32		+13.8	-0.1	13.9	---	---	---
33		+13.4	-0.6	14.0	---	---	---
34		+13.3	-0.3	13.6	---	---	---
35		+13.9	-0.4	14.3	---	---	---
36		+13.5	-0.3	13.8	---	---	---
37		+13.5	+0.1	13.4	---	---	---
38		+13.6	-0.2	13.8	---	---	---
39		+14.5	+0.6	13.9	---	---	---
40		+14.0	+0.4	13.6	---	---	---
41		+14.1	+0.1	14.0	---	---	---
42		+14.8	+0.1	14.7	---	---	---
43		+14.4	+0.2	14.2	---	---	---
44		+14.2	+0.4	13.8	---	---	---
45		+15.2	+0.9	14.3	---	---	---
46		+15.6	+1.5	14.1	---	---	---
47		+15.1	+1.4	13.7	---	---	---
48		+14.9	+1.3	13.6	---	---	---
49		+14.8	+1.1	13.7	---	---	---
50		+15.4	+1.9	13.5	---	---	---
51		+15.0	+1.2	13.8	---	---	---
52		+15.6	+1.1	14.5	---	---	---
53		+14.4	+0.1	14.3	---	---	---
54		+14.9	+1.7	13.2	---	---	---
55		+14.4	+0.6	13.8	---	---	---
56		+14.5	+0.5	14.0	---	---	---
57		+15.5	+1.4	14.1	---	---	---
58		+15.4	+1.3	14.1	---	---	---
59		+15.5	+1.0	14.5	---	---	---
60		+15.6	+1.0	14.6	---	---	---
61		+15.5	+1.2	14.3	---	---	---
62		+14.9	+0.6	14.3	---	---	---
63		+15.5	+0.3	15.2	---	---	---
64		+15.2	+0.2	15.0	---	---	---
65		+15.0	-0.1	15.1	---	---	---
66		+14.8	+0.1	14.7	---	---	---
67		+14.6	+0.0	14.6	---	---	---
68		+15.4	-0.2	15.6	---	---	---
69		+14.7	+0.3	14.4	---	---	---
70		+15.2	+1.7	13.5	---	---	---
71		+15.6	+1.7	13.9	---	---	---
72		+15.9	+2.1	13.8	---	---	---
73		+15.9	+2.4	13.5	---	---	---
74		+16.1	+1.4	14.7	---	---	---
75		+16.7	+2.5	14.2	---	---	---
76		+16.4	+1.1	15.3	---	---	---
77		+15.5	+1.7	13.8	---	---	---
116		+17.8	+3.3	14.5	---	---	---

**LIMIT CHECK**

	Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 14	+12.1 dBmV Pass
Max Delta Video Levels:	15.0 dB	CH 14 & 116	5.7 dB Pass
Min Delta V/A:	6.5 dB	CH 13	12.7 dB Pass
Max Delta V/A:	17.0 dB	CH 68	15.6 dB Pass
Max Delta Adjacent Channels:	3.0 dB		Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

## Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill / Henderson Highest Band Pass: 710 MHz  
 Test Point Location: Docket St Test Point Number: 5  
 Date of Test: 8-24-05 Time: 6:13 Temperature: 75°  
 Tech(s) Performing Test: David Williams Date Begun: 8-24

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer	<u>SDAS000</u>	<u>6313491</u>	<u>7-11-05</u>
FSM			<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

Date/Time	Was the Specification Met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	<u>8-24-05 16:13</u>	<u>5-24-05 12:30</u>	<u>8-21-05 15:24</u>	<u>8-24-05 23:54</u>

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>12.6</u>	<u>13.1</u>	<u>12.4</u>	<u>13.4</u>
Minimum Video Carrier Level	<u>12.5</u>	<u>12.4</u>	<u>12.3</u>	<u>14.0</u>
Variation Highest & Lowest Video Levels	<u>5.1</u>	<u>5.7</u>	<u>5.0</u>	<u>4.4</u>

Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5 Was the specification met? Yes  No

Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Was the Specification Met? Yes  No

Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Was this Specification Met? Yes  No

Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Was this Specification Met? Yes  No

Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB:

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB:

WVG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05

Operator: 9694 File: TP05 Interval: 1  
 Date: 08/24/05 Time: 06:13:23 Temp: +75 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+17.2	+3.5	13.7	---	---	---
3		+17.5	+3.1	14.4	---	---	---
4		+16.8	+2.7	14.1	---	---	---
5		+17.7	+3.9	13.8	---	---	---
99		+16.1	+1.1	15.0	---	---	---
14		+15.6	+1.8	13.8	---	---	---
15		+17.0	+1.7	15.3	---	---	---
16		+15.8	+2.5	13.3	---	---	---
17		+17.8	+4.1	13.7	---	---	---
18		+17.4	+2.5	14.9	---	---	---
19		+16.9	+2.1	14.8	---	---	---
20		+16.0	+2.1	13.9	---	---	---
21		+17.4	+3.3	14.1	---	---	---
22		+16.6	+1.4	15.2	---	---	---
7		+17.3	+3.9	13.4	---	---	---
8		+16.9	+3.2	13.7	---	---	---
9		+16.5	+4.3	12.2	---	---	---
10		+17.6	+4.3	13.3	---	---	---
11		+18.2	+3.3	14.9	---	---	---
12		+18.6	+2.2	16.4	---	---	---
13		+18.1	+5.2	12.9	---	---	---
23		+17.8	+3.6	14.2	---	---	---
24		+17.7	+4.0	13.7	---	---	---
25		+17.4	+3.5	13.9	---	---	---
26		+18.4	+3.5	14.9	---	---	---
27		+17.9	+4.5	13.4	---	---	---
28		+18.0	+4.1	13.9	---	---	---
29		+16.9	+3.1	13.8	---	---	---
30		+17.2	+4.0	13.2	---	---	---
31		+17.6	+3.2	14.4	---	---	---
32		+17.5	+3.4	14.1	---	---	---
33		+16.5	+3.5	13.0	---	---	---
34		+16.6	+3.1	13.5	---	---	---
35		+17.7	+2.3	15.4	---	---	---
36		+17.1	+2.4	14.7	---	---	---
37		+16.1	+3.2	12.9	---	---	---
38		+16.1	+2.3	13.8	---	---	---
39		+17.3	+3.1	14.2	---	---	---
40		+16.4	+2.8	13.6	---	---	---
41		+17.0	+2.4	14.6	---	---	---
42		+17.3	+1.6	15.7	---	---	---
43		+16.7	+2.4	14.3	---	---	---
44		+16.2	+2.5	13.7	---	---	---
45		+17.5	+2.6	14.9	---	---	---
46		+18.3	+3.5	14.8	---	---	---
47		+17.0	+3.2	13.8	---	---	---
48		+16.2	+3.2	13.0	---	---	---
49		+16.6	+2.4	14.2	---	---	---
50		+17.2	+3.0	14.2	---	---	---
51		+16.5	+2.3	14.2	---	---	---
52		+17.0	+2.3	14.7	---	---	---
53		+16.4	+1.7	14.7	---	---	---
54		+15.7	+2.6	13.1	---	---	---
55		+16.4	+1.1	15.3	---	---	---
56		+16.2	+1.9	14.3	---	---	---
57		+16.1	+2.1	14.0	---	---	---
58		+15.9	+1.6	14.3	---	---	---
59		+16.0	+1.1	14.9	---	---	---
60		+16.2	+1.0	15.2	---	---	---
61		+15.1	+1.8	13.3	---	---	---
62		+14.3	+0.8	13.5	---	---	---
63		+15.4	+0.1	15.3	---	---	---
64		+15.4	+0.0	15.4	---	---	---
65		+15.1	+0.2	14.9	---	---	---
66		+14.3	+0.3	14.0	---	---	---
67		+14.6	+0.4	14.2	---	---	---
68		+15.1	-0.6	15.7	---	---	---
69		+14.7	-1.1	15.8	---	---	---
70		+13.7	+1.4	12.3	---	---	---
71		+13.9	+0.1	13.8	---	---	---
72		+14.9	-0.3	15.2	---	---	---
73		+14.3	+0.7	13.6	---	---	---
74		+13.6	-0.4	14.0	---	---	---
75		+14.0	-0.1	14.1	---	---	---
76		+14.0	-2.2	16.2	---	---	---
77		+13.5	-1.4	14.9	---	---	---
116		+13.6	+0.3	13.3	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 77	+13.5 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 77 & 12	5.1 dB	Pass
Min Delta V/A:	6.5 dB	CH 9	12.2 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.4 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Operator: 9694 File: TP05 Interval: 2  
 Date: 08/24/05 Time: 12:30:50 Temp: +85 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+16.7	+3.0	13.7	---	---	---
3		+17.0	+2.8	14.2	---	---	---
4		+16.5	+2.3	14.2	---	---	---
5		+17.0	+3.5	13.5	---	---	---
99		+15.5	+0.6	14.9	---	---	---
14		+15.0	+1.0	14.0	---	---	---
15		+16.3	+1.0	15.3	---	---	---
16		+15.4	+1.9	13.5	---	---	---
17		+17.1	+3.4	13.7	---	---	---
18		+16.8	+2.0	14.8	---	---	---
19		+16.1	+1.5	14.6	---	---	---
20		+15.5	+1.4	14.1	---	---	---
21		+16.8	+2.8	14.0	---	---	---
22		+16.1	+0.7	15.4	---	---	---
7		+17.2	+3.2	14.0	---	---	---
8		+15.8	+2.5	13.3	---	---	---
9		+15.9	+3.1	12.8	---	---	---
10		+16.9	+3.6	13.3	---	---	---
11		+17.4	+2.8	14.6	---	---	---
12		+18.1	+1.5	16.6	---	---	---
13		+17.4	+4.4	13.0	---	---	---
23		+17.3	+2.9	14.4	---	---	---
24		+17.0	+3.8	13.2	---	---	---
25		+16.8	+2.5	14.3	---	---	---
26		+17.9	+2.5	15.4	---	---	---
27		+17.4	+4.1	13.3	---	---	---
28		+17.1	+3.6	13.5	---	---	---
29		+16.5	+2.6	13.9	---	---	---
30		+16.4	+3.5	12.9	---	---	---
31		+17.1	+2.2	14.9	---	---	---
32		+17.0	+2.9	14.1	---	---	---
33		+16.3	+2.7	13.6	---	---	---
34		+16.1	+2.7	13.4	---	---	---
35		+17.0	+1.5	15.5	---	---	---
36		+16.3	+2.0	14.3	---	---	---
37		+15.7	+2.6	13.1	---	---	---
38		+15.5	+1.8	13.7	---	---	---
39		+17.0	+2.5	14.5	---	---	---
40		+16.0	+2.5	13.5	---	---	---
41		+16.1	+1.7	14.4	---	---	---
42		+16.5	+1.1	15.4	---	---	---
43		+15.9	+1.9	14.0	---	---	---
44		+15.6	+1.8	13.8	---	---	---
45		+16.7	+2.0	14.7	---	---	---
46		+17.2	+2.8	14.4	---	---	---
47		+16.2	+2.3	13.9	---	---	---
48		+16.0	+2.8	13.2	---	---	---
49		+16.2	+1.7	14.5	---	---	---
50		+16.4	+2.4	14.0	---	---	---
51		+15.3	+1.8	13.5	---	---	---
52		+16.3	+1.5	14.8	---	---	---
53		+15.9	+1.0	14.9	---	---	---
54		+14.9	+1.7	13.2	---	---	---
55		+15.7	+0.7	15.0	---	---	---
56		+15.8	+1.4	14.4	---	---	---
57		+15.1	+1.6	13.5	---	---	---
58		+15.3	+1.1	14.2	---	---	---
59		+14.9	+0.5	14.4	---	---	---
60		+15.6	+0.6	15.0	---	---	---
61		+14.5	+1.0	13.5	---	---	---
62		+13.8	+0.2	13.6	---	---	---
63		+14.2	-0.6	14.8	---	---	---
64		+15.0	-0.5	15.5	---	---	---
65		+14.4	+0.0	14.4	---	---	---
66		+13.5	-0.2	13.7	---	---	---
67		+14.2	-0.5	14.7	---	---	---
68		+14.4	-1.0	15.4	---	---	---
69		+14.1	-1.5	15.6	---	---	---
70		+13.2	+0.6	12.6	---	---	---
71		+13.3	-0.8	14.1	---	---	---
72		+14.1	-0.7	14.8	---	---	---
73		+13.7	+0.1	13.6	---	---	---
74		+13.2	-1.1	14.3	---	---	---
75		+12.4	-0.6	13.0	---	---	---
76		+13.1	-2.8	15.9	---	---	---
77		+12.9	-2.1	15.0	---	---	---
116		+12.7	-0.5	13.2	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:		+3.0 dBmV	CH 75	+12.4 dBmV Pass
Max Delta Video Levels:		15.0 dB	CH 75 & 12	5.7 dB Pass
Min Delta V/A:		6.5 dB	CH 70	12.6 dB Pass
Max Delta V/A:		17.0 dB	CH 12	16.6 dB Pass
Max Delta Adjacent Channels:		3.0 dB		Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Operator: 9694 File: TP05 Interval: 3  
 Date: 08/24/05 Time: 18:24:15 Temp: +90 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+16.9	+3.2	13.7	---	---	---
3		+17.5	+2.8	14.7	---	---	---
4		+16.5	+2.3	14.2	---	---	---
5		+17.0	+3.4	13.6	---	---	---
99		+15.8	+0.7	15.1	---	---	---
14		+15.1	+1.4	13.7	---	---	---
15		+16.1	+1.2	14.9	---	---	---
16		+15.6	+0.1	15.5	---	---	---
17		+17.1	+3.4	13.7	---	---	---
18		+16.7	+1.9	14.8	---	---	---
19		+16.2	+1.6	14.6	---	---	---
20		+15.2	+1.6	13.6	---	---	---
21		+16.8	+2.7	14.1	---	---	---
22		+15.7	+0.7	15.0	---	---	---
7		+17.1	+3.3	13.8	---	---	---
8		+16.5	+2.7	13.8	---	---	---
9		+16.5	+3.2	13.3	---	---	---
10		+16.8	+3.7	13.1	---	---	---
11		+17.7	+2.6	15.1	---	---	---
12		+17.9	+1.6	16.3	---	---	---
13		+17.7	+4.6	13.1	---	---	---
23		+17.3	+2.9	14.4	---	---	---
24		+16.8	+3.5	13.3	---	---	---
25		+16.9	+2.6	14.3	---	---	---
26		+17.9	+2.8	15.1	---	---	---
27		+17.2	+4.0	13.2	---	---	---
28		+17.4	+3.5	13.9	---	---	---
29		+16.4	+2.6	13.8	---	---	---
30		+16.8	+3.8	13.0	---	---	---
31		+17.2	+2.2	15.0	---	---	---
32		+16.9	+2.7	14.2	---	---	---
33		+16.6	+2.8	13.8	---	---	---
34		+16.3	+2.5	13.8	---	---	---
35		+16.6	+1.5	15.1	---	---	---
36		+16.3	+1.8	14.5	---	---	---
37		+15.7	+2.5	13.2	---	---	---
38		+15.6	+1.5	14.1	---	---	---
39		+16.5	+2.6	13.9	---	---	---
40		+16.1	+2.4	13.7	---	---	---
41		+16.5	+2.0	14.5	---	---	---
42		+16.5	+1.1	15.4	---	---	---
43		+16.0	+1.8	14.2	---	---	---
44		+15.6	+1.9	13.7	---	---	---
45		+16.7	+2.1	14.6	---	---	---
46		+17.3	+2.9	14.4	---	---	---
47		+16.2	+2.4	13.8	---	---	---
48		+15.8	+2.6	13.2	---	---	---
49		+15.7	+1.7	14.0	---	---	---
50		+16.4	+2.5	13.9	---	---	---
51		+15.9	+2.0	13.9	---	---	---
52		+16.8	+1.7	15.1	---	---	---
53		+15.2	+1.1	14.1	---	---	---
54		+15.2	+1.7	13.5	---	---	---
55		+16.0	+0.6	15.4	---	---	---
56		+15.6	+1.2	14.4	---	---	---
57		+15.3	+1.7	13.6	---	---	---
58		+15.0	+1.3	13.7	---	---	---
59		+14.9	+0.3	14.6	---	---	---
60		+15.6	+0.5	15.1	---	---	---
61		+14.3	+1.1	13.2	---	---	---
62		+13.5	-0.1	13.6	---	---	---
63		+14.6	-0.8	15.4	---	---	---
64		+14.4	-1.3	15.7	---	---	---
65		+13.6	-0.8	14.4	---	---	---
66		+12.8	-0.9	13.7	---	---	---
67		+14.3	-0.4	14.7	---	---	---
68		+14.4	-1.4	15.8	---	---	---
69		+14.0	-1.6	15.6	---	---	---
70		+13.1	+0.8	12.3	---	---	---
71		+13.4	-0.7	14.1	---	---	---
72		+13.9	-0.9	14.8	---	---	---
73		+13.9	+0.1	13.8	---	---	---
74		+13.5	-1.2	14.7	---	---	---
75		+12.8	-0.6	13.4	---	---	---
76		+13.1	-2.8	15.9	---	---	---
77		+12.3	-2.0	14.3	---	---	---
116		+12.9	-0.5	13.4	---	---	---

LIMIT CHECK		Limit	Actual	
Min Video Carrier Level:	+3.0 dBmV	CH 77	+12.3 dBmV	Pass
Max Delta Video Levels:	15.0 dB	CH 77 & 12	5.6 dB	Pass
Min Delta V/A:	6.5 dB	CH 70	12.3 dB	Pass
Max Delta V/A:	17.0 dB	CH 12	16.3 dB	Pass
Max Delta Adjacent Channels:	3.0 dB			Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

WMG AUTO TEST REPORT Page 1  
 Model: SDA-5000 Serial No: 6313491 Cal Date: 07/11/05

Operator: 9694 File: TP05 Interval: 4  
 Date: 08/24/05 Time: 23:59:17 Temp: +82 F

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)	C/N (dB)	Hum (%)	Mod (%)
2		+17.3	+3.4	13.9	---	---	---
3		+17.2	+3.0	14.2	---	---	---
4		+16.7	+2.3	14.4	---	---	---
5		+17.0	+3.6	13.4	---	---	---
99		+15.9	+1.0	14.9	---	---	---
14		+15.4	+1.4	14.0	---	---	---
15		+16.5	+1.1	15.4	---	---	---
16		+15.6	+2.3	13.3	---	---	---
17		+17.8	+3.9	13.9	---	---	---
18		+17.1	+2.2	14.9	---	---	---
19		+16.5	+1.7	14.8	---	---	---
20		+15.2	+1.8	13.4	---	---	---
21		+17.1	+3.3	13.8	---	---	---
22		+16.5	+1.3	15.2	---	---	---
7		+17.5	+3.8	13.7	---	---	---
8		+17.0	+2.8	14.2	---	---	---
9		+16.7	+3.5	13.2	---	---	---
10		+17.1	+4.3	12.8	---	---	---
11		+17.9	+3.0	14.9	---	---	---
12		+18.4	+1.9	16.5	---	---	---
13		+17.7	+5.0	12.7	---	---	---
23		+18.0	+3.6	14.4	---	---	---
24		+17.7	+4.1	13.6	---	---	---
25		+17.4	+3.1	14.3	---	---	---
26		+18.4	+3.0	15.4	---	---	---
27		+17.9	+4.6	13.3	---	---	---
28		+18.2	+4.3	13.9	---	---	---
29		+17.2	+3.1	14.1	---	---	---
30		+17.3	+3.9	13.4	---	---	---
31		+17.5	+3.0	14.5	---	---	---
32		+17.6	+3.5	14.1	---	---	---
33		+17.5	+3.2	14.3	---	---	---
34		+16.7	+3.0	13.7	---	---	---
35		+17.2	+2.2	15.0	---	---	---
36		+17.1	+2.7	14.4	---	---	---
37		+16.2	+3.5	12.7	---	---	---
38		+16.1	+2.3	13.8	---	---	---
39		+16.8	+3.1	13.7	---	---	---
40		+16.5	+3.0	13.5	---	---	---
41		+17.1	+2.7	14.4	---	---	---
42		+17.7	+2.1	15.6	---	---	---
43		+17.1	+2.4	14.7	---	---	---
44		+16.4	+2.5	13.9	---	---	---
45		+17.3	+3.1	14.2	---	---	---
46		+18.2	+3.8	14.4	---	---	---
47		+17.5	+3.5	14.0	---	---	---
48		+16.3	+3.2	13.1	---	---	---
49		+16.9	+2.5	14.4	---	---	---
50		+17.4	+3.2	14.2	---	---	---
51		+17.0	+2.8	14.2	---	---	---
52		+17.3	+2.4	14.9	---	---	---
53		+16.4	+1.6	14.8	---	---	---
54		+15.8	+2.7	13.1	---	---	---
55		+16.6	+1.4	15.2	---	---	---
56		+16.6	+2.1	14.5	---	---	---
57		+16.5	+2.4	14.1	---	---	---
58		+15.7	+1.8	13.9	---	---	---
59		+16.0	+1.3	14.7	---	---	---
60		+16.4	+1.7	14.7	---	---	---
61		+15.4	+2.1	13.3	---	---	---
62		+14.8	+0.6	14.2	---	---	---
63		+15.3	+0.2	15.1	---	---	---
64		+15.1	+0.4	14.7	---	---	---
65		+15.5	+0.8	14.7	---	---	---
66		+14.7	+0.8	13.9	---	---	---
67		+15.1	+0.4	14.7	---	---	---
68		+15.3	-0.2	15.5	---	---	---
69		+15.5	-0.5	16.0	---	---	---
70		+14.3	+1.6	12.7	---	---	---
71		+14.1	+0.4	13.7	---	---	---
72		+14.8	+0.4	14.4	---	---	---
73		+14.8	+1.5	13.3	---	---	---
74		+14.2	+0.3	13.9	---	---	---
75		+14.0	+0.4	13.6	---	---	---
76		+14.0	-2.0	16.0	---	---	---
77		+14.1	-0.8	14.9	---	---	---
116		+14.0	+0.4	13.6	---	---	---

LIMIT CHECK Limit Actual  
 Min Video Carrier Level: +3.0 dBmV CH 76 +14.0 dBmV Pass  
 Max Delta Video Levels: 15.0 dB CH 76 & 26 4.4 dB Pass  
 Min Delta V/A: 6.5 dB CH 70 12.7 dB Pass  
 Max Delta V/A: 17.0 dB CH 12 16.5 dB Pass  
 Max Delta Adjacent Channels: 3.0 dB Pass

Conclusion: P A S S

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill  
 Test Point Location: Hayworth  
 Date of Test: 7-28-05 Time: 06:06  
 Tech(s) Performing Test: Dwight Ellis

Highest Band Pass: 770MHz  
 Test Point Number: 6  
 Temperature: 77  
 Date Begun: 7-28-05

Last

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer FSM	<u>SDA-5000</u>	<u>2381246</u>	<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

	Was the Specification Met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Date/Time	<u>7-28: 06:06</u> <u>7-28: 12:00</u> <u>7-28: 17:59</u> <u>7-29: 00:02</u>

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>23.4</u>	<u>22.6</u>	<u>22.4</u>	<u>22.6</u>
Minimum Video Carrier Level	<u>15.3</u>	<u>14.7</u>	<u>13.5</u>	<u>13.4</u>
Variation Highest & Lowest Video Levels	<u>8.1</u>	<u>7.9</u>	<u>8.9</u>	<u>9.2</u>
Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth	<u>14.5</u>			
Justification for any variation in this requirement:	Was the specification met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Was the Specification Met? Yes  No

Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Was this Specification Met? Yes  No

Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Was this Specification Met? Yes  No

Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB: \_\_\_\_\_

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/28/05 Time: 06:06:21  
Description:

Serial #: 2381246  
File: 1HAYWORTH

Cal Date: 05/23/05  
DOS File: 1HAYWORTH

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 77.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	15.3	1.6	13.7
3	WRAL	15.7	1.5	14.2
4	LOCL	18.4	5.1	13.3
5	WGHP	19.5	3.3	16.2
6	WUNC	18.3	5.4	12.9
7	WRPX	21.3	6.8	14.5
8	WUVC	22.2	6.4	15.8
9	WNCN	21.3	7.9	13.4
10	WRDC	22.2	8.6	13.6
11	WRAZ	22.2	6.3	15.9
12	WLFL	20.9	7.7	13.2
13	WTVD	21.0	7.4	13.6
14	NC14	20.5	6.6	13.9
15	HSN	20.0	6.1	13.9
16	QVC	20.2	6.9	13.3
17		20.2	6.7	13.5
18	GOVT	21.6	7.8	13.8
19	WRAY	21.2	6.2	15.0
20	TWI1	21.0	5.6	15.4
21	WGN	20.7	7.3	13.4
22	BET	20.7	7.1	13.6
24	TRI	20.8	7.2	13.6
25	USA	20.8	7.6	13.2
26	TNT	20.6	7.0	13.6
27	A+E	20.7	7.2	13.5
28	FFAM	20.7	7.3	13.4
29	CNN	20.6	6.9	13.7
30	DISC	20.4	5.8	14.6
31	ESPN	20.6	6.7	13.9
32	ESP2	20.3	6.6	13.7
33	LIFE	19.6	5.4	14.2
34	HSN	18.8	5.8	13.0
35	QVC	20.6	7.1	13.5
36	COM	21.2	7.1	14.1
37	CNBC	21.5	7.5	14.0
38	AMC	21.4	8.3	13.1
39	TLC	22.0	8.4	13.6
40	TNN	21.9	7.2	14.7
41	HLN	22.6	7.6	15.0
42	TWC	21.3	6.5	14.8
43	NICK	21.5	6.8	14.7
44	CORT	21.8	8.1	13.7
45	MSN	22.2	7.3	14.9
46	APL	22.0	7.1	14.9
47	CNSI	22.4	6.7	15.7
48	VH1	21.9	6.7	15.2
49	SIFI	22.0	7.4	14.6
50	FSN	22.1	7.4	14.7
51	GOLF	21.3	7.1	14.2



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/28/05 Time: 06:06:21  
Description:

Serial #: 2381246  
File: 1HAYWORTH

Cal Date: 05/23/05  
DOS File: 1HAYWORTH

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	22.3	7.5	14.8
54	TVLN	22.5	8.0	14.5
55	OXY	21.9	7.9	14.0
56	HIST	22.3	7.5	14.8
57	DISN	21.6	8.1	13.5
58	FOXN	22.3	7.6	14.7
59	CSPN	21.4	8.0	13.4
60	CSP2	21.8	8.3	13.5
61	WET	22.1	8.6	13.5
62	E	21.5	7.0	14.5
63	SOAP	22.1	7.0	15.1
64	SNBC	22.0	8.2	13.8
65	OLN	21.5	8.1	13.4
66	ESPC	21.3	7.9	13.4
67	TCM	21.5	6.4	15.1
69	CMT	20.4	5.2	15.2
70	NGEO	20.4	6.2	14.2
71	FX	20.2	5.6	14.6
72	ISPN	19.8	5.0	14.8
73	HLMK	20.0	6.6	13.4
74	TRAV	20.2	5.0	15.2
75	TOON	20.0	5.4	14.6
76	HGTV	20.0	4.9	15.1
77	FOOD	20.3	5.3	15.0
98	TVG	21.5	8.8	12.7
116	TEST	23.4	8.3	15.1

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 15.3	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 116, Delta = 8.1	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.7	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.2	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.7	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/28/05 Time: 12:00:55  
Description:

Serial #: 2381246  
File: 2HAYWORTH

Cal Date: 05/23/05  
DOS File: 2HAYWORTH

Location: ?	AmpID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 88.0 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	14.7	1.2	13.5
3	WRAL	15.0	1.0	14.0
4	LOCL	17.8	4.6	13.2
5	WGHP	18.6	5.2	13.4
6	WUNC	17.9	4.8	13.1
7	WRPX	20.7	6.1	14.6
8	WUVC	21.4	5.6	15.8
9	WNCN	20.4	7.0	13.4
10	WRDC	21.2	7.8	13.4
11	WRAZ	21.1	5.4	15.7
12	WLFL	20.0	6.9	13.1
13	WTVD	20.0	6.3	13.7
14	NC14	20.0	6.3	13.7
15	HSN	19.7	5.6	14.1
16	QVC	19.8	6.4	13.4
17		19.6	4.6	15.0
18	GOVT	21.3	7.7	13.6
19	WRAY	20.3	5.4	14.9
20	TWI1	20.2	4.8	15.4
21	WGN	19.8	6.7	13.1
22	BET	20.0	6.3	13.7
24	TRI	20.0	6.3	13.7
25	USA	20.1	6.7	13.4
26	TNT	19.7	6.0	13.7
27	A+E	19.7	6.1	13.6
28	FFAM	19.6	5.9	13.7
29	CNN	19.3	4.8	14.5
30	DISC	18.3	3.5	14.8
31	ESPN	18.3	5.5	12.8
32	ESP2	19.4	6.8	12.6
33	LIFE	20.3	6.8	13.5
34	HSN	20.1	6.2	13.9
35	QVC	20.7	6.7	14.0
36	COM	20.5	6.4	14.1
37	CNBC	20.8	6.9	13.9
38	AMC	20.7	7.6	13.1
39	TLC	21.7	7.9	13.8
40	TNN	21.3	6.4	14.9
41	HLN	21.8	6.7	15.1
42	TWC	20.6	5.8	14.8
43	NICK	20.7	6.0	14.7
44	CORT	21.2	7.3	13.9
45	MSN	21.1	6.7	14.4
46	APL	21.1	6.6	14.5
47	CNSI	21.8	6.1	15.7
48	VH1	21.1	6.0	15.1
49	SIFI	21.4	6.6	14.8
50	FSN	21.2	6.6	14.6
51	GOLF	20.4	6.3	14.1

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/28/05 Time: 12:00:55  
Description:

Serial #: 2381246  
File: 2HAYWORTH

Cal Date: 05/23/05  
DOS File: 2HAYWORTH

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	21.3	6.7	14.6
54	TVLN	21.6	6.9	14.7
55	OXY	21.2	7.0	14.2
56	HIST	21.4	6.8	14.6
57	DISN	21.0	7.4	13.6
58	FOXN	21.5	6.9	14.6
59	CSPN	20.9	7.4	13.5
60	CSP2	21.3	7.8	13.5
61	WET	21.5	8.0	13.5
62	E	21.0	6.5	14.5
63	SOAP	21.8	6.5	15.3
64	SNBC	21.5	7.6	13.9
65	OLN	20.9	7.6	13.3
66	ESPC	20.8	7.4	13.4
67	TCM	20.9	6.1	14.8
69	CMT	20.1	4.8	15.3
70	NGEO	19.9	5.7	14.2
71	FX	19.7	5.1	14.6
72	ISPN	19.4	4.5	14.9
73	HLMK	19.6	6.2	13.4
74	TRAV	19.7	4.6	15.1
75	TOON	19.8	5.0	14.8
76	HGTV	19.7	4.6	15.1
77	FOOD	20.0	4.9	15.1
98	TVG	20.5	8.1	12.4
116	TEST	22.6	7.5	15.1

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 14.7	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 116, Delta = 7.9	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.4	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.8	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.8	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D'ELLIS  
Date: 07/28/05 Time: 17:59:49  
Description:

Serial #: 2381246  
File: 3HAYWORTH

Cal Date: 05/23/05  
DOS File: 3HAYWORTH

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 91.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.5	0.0	13.5
3	WRAL	14.9	0.9	14.0
4	LOCL	17.7	4.5	13.2
5	WGHP	16.9	3.4	13.5
6	WUNC	16.7	3.0	13.7
7	WRPX	20.5	5.9	14.6
8	WUVC	21.2	5.3	15.9
9	WNCN	19.5	5.5	14.0
10	WRDC	19.8	5.8	14.0
11	WRAZ	19.9	3.7	16.2
12	WLFL	18.7	4.7	14.0
13	WTVD	19.6	6.0	13.6
14	NC14	18.2	3.9	14.3
15	HSN	18.5	3.3	15.2
16	QVC	18.5	4.5	14.0
17		19.6	5.4	14.2
18	GOVT	20.2	7.0	13.2
19	WRAY	19.2	4.8	14.4
20	TWI1	18.5	4.6	13.9
21	WGN	18.8	4.6	14.2
22	BET	19.8	6.2	13.6
24	TRI	19.4	4.3	15.1
25	USA	17.5	3.1	14.4
26	TNT	18.2	4.3	13.9
27	A+E	19.2	5.9	13.3
28	FFAM	19.7	5.3	14.4
29	CNN	18.6	4.3	14.3
30	DISC	18.4	4.1	14.3
31	ESPN	19.0	4.6	14.4
32	ESP2	19.0	5.2	13.8
33	LIFE	19.4	5.0	14.4
34	HSN	19.3	5.3	14.0
35	QVC	19.8	4.9	14.9
36	COM	19.8	5.2	14.6
37	CNBC	19.6	5.7	13.9
38	AMC	19.8	5.3	14.5
39	TLC	20.6	6.0	14.6
40	TNN	20.1	6.0	14.1
41	HLN	19.9	5.0	14.9
42	TWC	20.4	5.7	14.7
43	NICK	19.5	4.9	14.6
44	CORT	19.7	4.9	14.8
45	MSN	20.0	5.6	14.4
46	APL	21.0	6.5	14.5
47	CNSI	20.5	6.2	14.3
48	VH1	19.6	5.3	14.3
49	SIFI	20.0	5.9	14.1
50	FSN	20.1	6.2	13.9
51	GOLF	19.5	5.1	14.4





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708 East club Blvd.  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/28/05 Time: 17:59:49  
Description:

Serial #: 2381246  
File: 3HAYWORTH

Cal Date: 05/23/05  
DOS File: 3HAYWORTH

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	20.4	5.7	14.7
54	TVLN	20.4	6.7	13.7
55	OXY	20.0	6.0	14.0
56	HIST	20.1	5.5	14.6
57	DISN	20.3	5.8	14.5
58	FOXN	20.2	5.7	14.5
59	CSPN	20.7	6.6	14.1
60	CSP2	20.1	5.6	14.5
61	WET	20.6	6.4	14.2
62	E	19.8	5.9	13.9
63	SOAP	20.6	5.4	15.2
64	SNBC	20.6	5.1	15.5
65	OLN	20.1	5.3	14.8
66	ESPC	19.8	5.1	14.7
67	TCM	20.0	4.6	15.4
69	CMT	19.6	4.6	15.0
70	NGEO	20.0	5.6	14.4
71	FX	19.7	4.8	14.9
72	ISPN	19.0	4.3	14.7
73	HLMK	19.4	6.1	13.3
74	TRAV	19.7	4.6	15.1
75	TOON	19.5	4.9	14.6
76	HGTV	19.8	4.6	15.2
77	FOOD	19.8	5.1	14.7
98	TVG	20.5	8.2	12.3
116	TEST	22.4	7.4	15.0

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 13.5	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 116, Delta = 8.9	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.3	Pass
Max Delta V/A	17.0 dB	Ch 11 Delta V/A = 16.2	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.8	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/29/05 Time: 00:02:29  
Description:

Serial #: 2381246  
File: 4HAYWORTH

Cal Date: 05/23/05  
DOS File: 4HAYWORTH

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 78.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.4	0.0	13.4
3	WRAL	14.8	0.9	13.9
4	LOCL	17.6	4.5	13.1
5	WGHP	16.9	3.5	13.4
6	WUNC	16.7	3.1	13.6
7	WRPX	20.3	5.9	14.4
8	WUVC	21.2	5.3	15.9
9	WNCN	19.6	5.5	14.1
10	WRDC	19.9	5.8	14.1
11	WRAZ	19.8	3.9	15.9
12	WLFL	18.8	4.8	14.0
13	WTVD	19.7	5.9	13.8
14	NC14	18.2	3.8	14.4
15	HSN	18.4	3.3	15.1
16	QVC	18.4	4.6	13.8
17		19.5	5.7	13.8
18	GOVT	20.1	7.0	13.1
19	WRAY	19.0	4.7	14.3
20	TWI1	18.5	4.6	13.9
21	WGN	18.7	4.6	14.1
22	BET	19.7	6.2	13.5
24	TRI	19.4	4.4	15.0
25	USA	17.8	3.2	14.6
26	TNT	18.1	4.3	13.8
27	A+E	19.1	6.0	13.1
28	FFAM	19.7	5.3	14.4
29	CNN	18.7	4.3	14.4
30	DISC	18.2	4.1	14.1
31	ESPN	18.8	4.5	14.3
32	ESP2	18.8	5.2	13.6
33	LIFE	19.2	4.9	14.3
34	HSN	19.2	5.3	13.9
35	QVC	19.9	4.9	15.0
36	COM	19.2	5.2	14.0
37	CNBC	19.6	5.8	13.8
38	AMC	19.6	5.3	14.3
39	TLC	20.6	6.1	14.5
40	TNN	20.1	6.0	14.1
41	HLN	19.9	5.0	14.9
42	TWC	20.4	5.7	14.7
43	NICK	19.3	5.0	14.3
44	CORT	19.6	4.9	14.7
45	MSN	20.2	5.8	14.4
46	APL	21.0	6.5	14.5
47	CNSI	20.4	6.3	14.1
48	VH1	19.7	5.4	14.3
49	SIFI	20.0	6.1	13.9
50	FSN	20.1	6.3	13.8
51	GOLF	19.5	5.2	14.3



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^ELLIS  
Date: 07/29/05 Time: 00:02:29  
Description:

Serial #: 2381246  
File: 4HAYWORTH

Cal Date: 05/23/05  
DOS File: 4HAYWORTH

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	20.3	5.7	14.6
54	TVLN	20.5	6.8	13.7
55	OXY	20.0	6.1	13.9
56	HIST	20.4	5.8	14.6
57	DISN	20.5	5.7	14.8
58	FOXN	20.4	5.8	14.6
59	CSPN	20.8	6.6	14.2
60	CSP2	20.1	5.7	14.4
61	WET	20.7	6.4	14.3
62	E	19.9	6.1	13.8
63	SOAP	20.6	5.6	15.0
64	SNBC	20.7	5.3	15.4
65	OLN	20.1	5.4	14.7
66	ESPC	20.0	5.4	14.6
67	TCM	20.0	4.8	15.2
69	CMT	19.8	4.7	15.1
70	NGEO	20.0	5.8	14.2
71	FX	20.0	5.1	14.9
72	ISPN	19.4	4.5	14.9
73	HLMK	19.5	6.3	13.2
74	TRAV	19.7	4.7	15.0
75	TOON	19.5	5.0	14.5
76	HGTV	19.9	4.6	15.3
77	FOOD	19.8	5.1	14.7
98	TVG	20.4	8.2	12.2
116	TEST	22.6	7.6	15.0

LIMIT CHECK

Min Video Carrier Level

Limit  
3.0 dBmV

Max Delta Video Level

14.5 dB

Min Delta V/A

10.0 dB

Max Delta V/A

17.0 dB

Max Delta Adjacent Chan

3.0 dB

Min Digital Level

undefined

Max Digital Level

undefined

Conclusion:

Actual

Ch 2 Video = 13.4

Ch 2 and 116, Delta = 9.2

Ch 98 Delta V/A = 12.2

Ch 8 Delta V/A = 15.9

Ch 3 and 4, Delta = 2.8

No data

No data

Pass

Pass

Pass

Pass

Pass

Pass

Pass

**P A S S**

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

## Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill  
 Test Point Location: Hoover Rd  
 Date of Test: 7-28-05 Time: 05:56  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 7  
 Temperature: 76  
 Date Begun: 7-28-05

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer FSM	<u>SDA-5000</u>	<u>7213632</u>	<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.  
 Date: Time 7-28 05:56 7-28 11:58 7-28 17:55 7-28 23:58 Was the Specification Met? Yes , No

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).  

Maximum Video Carrier Level	<u>14.3</u>	<u>14.1</u>	<u>14.7</u>	<u>14.8</u>
Minimum Video Carrier Level	<u>10.9</u>	<u>10.6</u>	<u>10.3</u>	<u>10.1</u>
Variation Highest & Lowest Video Levels	<u>3.4</u>	<u>3.5</u>	<u>4.4</u>	<u>4.7</u>

 Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5 Was the specification met? Yes , No   
 Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.  
 Was the Specification Met? Yes , No   
 Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:  
 Was this Specification Met? Yes , No   
 Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.  
 Was this Specification Met? Yes , No   
 Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB  
 Was this Specification Met? Yes , No   
 Justification for any variation greater then 8 dB: \_\_\_\_\_  
 Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.  
 Was this Specification Met? Yes , No   
 Justification for any variation greater then 8 dB: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 05:56:52  
Description:

Serial #: 7213632  
File: 1\_HOOVER

Cal Date: 06/15/05  
DOS File: 1\_HOOVER

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 75.9 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	11.5	-2.5	14.0
3	WRAL	11.2	-3.5	14.7
4	LOCL	13.2	-0.7	13.9
5	WGHP	13.1	-3.8	16.9
6	WUNC	11.4	-2.4	13.8
7	WRPX	12.4	-2.1	14.5
8	WUVC	13.6	-2.8	16.4
9	WNCN	12.7	-0.9	13.6
10	WRDC	13.4	0.3	13.1
11	WRAZ	13.9	-2.1	16.0
12	WLFL	12.4	-0.4	12.8
13	WTVD	13.3	-0.5	13.8
14	NC14	12.6	-1.5	14.1
15	HSN	12.0	-2.1	14.1
16	QVC	11.5	-2.0	13.5
17		10.9	-3.9	14.8
18	GOVT	12.7	-1.0	13.7
19	WRAY	11.8	-2.9	14.7
20	TWI1	12.0	-3.5	15.5
21	WGN	11.7	-1.6	13.3
22	BET	12.1	-1.9	14.0
24	TRI	13.1	-0.8	13.9
25	USA	12.9	-0.8	13.7
26	TNT	12.2	-1.1	13.3
27	A+E	12.7	-0.7	13.4
28	FFAM	13.4	0.2	13.2
29	CNN	13.7	0.1	13.6
30	DISC	14.0	-0.3	14.3
31	ESPN	14.1	0.3	13.8
32	ESP2	14.0	0.3	13.7
33	LIFE	14.0	0.0	14.0
34	HSN	13.5	-0.5	14.0
35	QVC	14.1	-0.1	14.2
36	COM	14.2	-0.1	14.3
37	CNBC	13.9	0.0	13.9
38	AMC	13.6	0.1	13.5
39	TLC	13.7	0.2	13.5
40	TNN	13.7	-1.4	15.1
41	HLN	14.2	-0.9	15.1
42	TWC	13.2	-1.9	15.1
43	NICK	13.3	-1.5	14.8
44	CORT	13.1	-0.4	13.5
45	MSN	13.3	-1.3	14.6
46	APL	12.8	-2.0	14.8
47	CNSI	13.3	-2.7	16.0
48	VH1	13.0	-2.6	15.6
49	SIFI	13.3	-1.4	14.7
50	FSN	13.8	-1.2	15.0
51	GOLF	13.0	-1.6	14.6



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 05:56:52  
Description:

Serial #: 7213632  
File: 1\_HOOVER

Cal Date: 06/15/05  
DOS File: 1\_HOOVER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	12.6	-2.3	14.9
54	TVLN	12.6	-2.2	14.8
55	OXY	12.1	-3.0	15.1
56	HIST	11.4	-2.9	14.3
57	DISN	11.4	-1.5	12.9
58	FOXN	12.8	-1.4	14.2
59	CSPN	12.5	-0.7	13.2
60	CSP2	13.0	-0.5	13.5
61	WET	13.4	-0.3	13.7
62	E	12.8	-2.0	14.8
63	SOAP	13.5	-1.4	14.9
64	SNBC	13.3	-0.2	13.5
65	OLN	13.2	-0.4	13.6
66	ESPC	12.9	-0.2	13.1
67	TCM	13.6	-1.0	14.6
69	CMT	13.1	-1.6	14.7
70	NGEO	13.7	-0.2	13.9
71	FX	13.7	-0.6	14.3
72	ISPN	13.5	-1.3	14.8
73	HLMK	14.0	0.4	13.6
74	TRAV	13.9	-0.9	14.8
75	TOON	14.3	-0.5	14.8
76	HGTV	14.3	-1.0	15.3
77	FOOD	14.0	-0.6	14.6
98	TVG	13.1	0.3	12.8
116	TEST	12.7	-1.7	14.4

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 17 Video = 10.9	Pass
Max Delta Video Level	14.5 dB	Ch 17 and 75, Delta = 3.4	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.8	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.9	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.0	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 11:58:32  
Description:

Serial #: 7213632  
File: 2\_HOOVER

Cal Date: 06/15/05  
DOS File: 2\_HOOVER

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 87.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	11.5	-2.5	14.0
3	WRAL	11.1	-3.4	14.5
4	LOCL	13.3	-0.8	14.1
5	WGHP	12.1	-2.0	14.1
6	WUNC	10.6	-2.3	12.9
7	WRPX	12.4	-2.2	14.6
8	WUVC	13.6	-2.8	16.4
9	WNCN	12.4	-0.9	13.3
10	WRDC	13.4	0.2	13.2
11	WRAZ	13.9	-2.0	15.9
12	WLFL	12.7	-0.6	13.3
13	WTVD	13.1	-0.6	13.7
14	NC14	12.3	-1.6	13.9
15	HSN	11.8	-2.2	14.0
16	QVC	11.7	-2.0	13.7
17		11.5	-4.9	16.4
18	GOVT	12.9	-0.8	13.7
19	WRAY	11.9	-2.9	14.8
20	TWI1	12.1	-3.5	15.6
21	WGN	11.8	-1.4	13.2
22	BET	12.1	-2.0	14.1
24	TRI	12.9	-0.9	13.8
25	USA	12.5	-0.9	13.4
26	TNT	12.4	-1.1	13.5
27	A+E	12.7	-0.9	13.6
28	FFAM	13.3	0.1	13.2
29	CNN	13.7	0.0	13.7
30	DISC	14.0	-0.5	14.5
31	ESPN	14.1	0.2	13.9
32	ESP2	13.8	0.2	13.6
33	LIFE	13.6	-0.2	13.8
34	HSN	13.3	-0.9	14.2
35	QVC	13.9	-0.4	14.3
36	COM	13.8	-0.5	14.3
37	CNBC	13.5	-0.6	14.1
38	AMC	13.1	-0.1	13.2
39	TLC	13.6	0.0	13.6
40	TNN	13.2	-1.8	15.0
41	HLN	13.5	-1.2	14.7
42	TWC	12.6	-2.1	14.7
43	NICK	12.6	-2.0	14.6
44	CORT	12.6	-0.8	13.4
45	MSN	12.9	-1.9	14.8
46	APL	12.1	-2.4	14.5
47	CNSI	12.9	-3.2	16.1
48	VH1	12.4	-3.1	15.5
49	SIFI	12.5	-2.0	14.5
50	FSN	12.9	-1.6	14.5
51	GOLF	12.6	-2.0	14.6



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 11:58:32  
Description:

Serial #: 7213632  
File: 2\_HOOVER

Cal Date: 06/15/05  
DOS File: 2\_HOOVER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	12.3	-2.3	14.6
54	TVLN	12.7	-2.1	14.8
55	OXY	12.2	-2.2	14.4
56	HIST	12.6	-2.2	14.8
57	DISN	11.9	-1.5	13.4
58	FOXN	12.5	-2.3	14.8
59	CSPN	11.6	-2.3	13.9
60	CSP2	11.2	-2.5	13.7
61	WET	11.5	-1.6	13.1
62	E	11.8	-2.8	14.6
63	SOAP	12.8	-2.1	14.9
64	SNBC	12.8	-0.7	13.5
65	OLN	12.6	-1.1	13.7
66	ESPC	12.3	-0.8	13.1
67	TCM	12.9	-1.8	14.7
69	CMT	12.8	-2.3	15.1
70	NGEO	13.2	-0.8	14.0
71	FX	13.1	-1.2	14.3
72	ISPN	12.8	-1.9	14.7
73	HLMK	13.7	-0.4	14.1
74	TRAV	13.5	-1.5	15.0
75	TOON	13.9	-1.0	14.9
76	HGTV	13.8	-1.5	15.3
77	FOOD	13.0	-1.4	14.4
98	TVG	13.1	0.3	12.8
116	TEST	12.0	-2.5	14.5

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 10.6	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 31, Delta = 3.5	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.8	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 16.4	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.2	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 17:55:34  
Description:

Serial #: 7213632  
File: 3\_HOOVER

Cal Date: 06/15/05  
DOS File: 3\_HOOVER

Location: ?	AmpID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 93.0 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	10.6	-2.8	13.4
3	WRAL	11.9	-2.8	14.7
4	LOCL	13.9	-0.2	14.1
5	WGHP	11.5	-3.0	14.5
6	WUNC	10.3	-3.1	13.4
7	WRPX	13.2	-1.5	14.7
8	WUVC	14.2	-2.3	16.5
9	WNCN	12.3	-1.5	13.8
10	WRDC	12.8	-1.1	13.9
11	WRAZ	13.0	-2.5	15.5
12	WLFL	12.3	-2.0	14.3
13	WTVD	13.7	0.0	13.7
14	NC14	11.1	-3.2	14.3
15	HSN	11.5	-3.5	15.0
16	QVC	11.1	-3.2	14.3
17		12.0	-2.7	14.7
18	GOVT	13.1	-0.8	13.9
19	WRAY	11.5	-2.8	14.3
20	TWI1	11.1	-3.1	14.2
21	WGN	11.4	-2.8	14.2
22	BET	12.5	-1.3	13.8
24	TRI	13.4	-1.3	14.7
25	USA	11.9	-2.0	13.9
26	TNT	12.9	-1.5	14.4
27	A+E	13.3	-0.3	13.6
28	FFAM	14.2	-0.2	14.4
29	CNN	13.1	-1.0	14.1
30	DISC	13.1	-1.2	14.3
31	ESPN	13.6	-1.0	14.6
32	ESP2	13.4	-0.7	14.1
33	LIFE	13.3	-1.1	14.4
34	HSN	13.1	-1.0	14.1
35	QVC	13.7	-1.2	14.9
36	COM	13.3	-1.0	14.3
37	CNBC	13.0	-0.8	13.8
38	AMC	12.8	-1.6	14.4
39	TLC	13.3	-1.0	14.3
40	TNN	12.7	-1.4	14.1
41	HLN	12.7	-2.1	14.8
42	TWC	13.1	-1.5	14.6
43	NICK	12.4	-2.1	14.5
44	CORT	12.3	-2.3	14.6
45	MSN	12.5	-2.1	14.6
46	APL	13.0	-1.7	14.7
47	CNSI	12.1	-2.2	14.3
48	VH1	11.6	-2.9	14.5
49	SIFI	12.0	-1.8	13.8
50	FSN	12.5	-1.2	13.7
51	GOLF	12.4	-2.2	14.6

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 17:55:34  
Description:

Serial #: 7213632  
File: 3\_HOOVER

Cal Date: 06/15/05  
DOS File: 3\_HOOVER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	12.5	-2.5	15.0
54	TVLN	12.3	-1.8	14.1
55	OXY	12.0	-2.6	14.6
56	HIST	11.8	-3.1	14.9
57	DISN	11.1	-3.7	14.8
58	FOXN	10.9	-2.8	13.7
59	CSPN	12.4	-1.3	13.7
60	CSP2	12.3	-2.2	14.5
61	WET	12.7	-1.4	14.1
62	E	12.3	-2.0	14.3
63	SOAP	12.8	-2.0	14.8
64	SNBC	12.9	-2.1	15.0
65	OLN	13.1	-1.9	15.0
66	ESPC	12.4	-1.9	14.3
67	TCM	12.9	-1.9	14.8
69	CMT	13.4	-1.5	14.9
70	NGEO	13.8	0.1	13.7
71	FX	13.8	-0.3	14.1
72	ISPN	13.5	-0.9	14.4
73	HLMK	14.4	0.7	13.7
74	TRAV	14.5	-0.5	15.0
75	TOON	14.7	-0.1	14.8
76	HGTV	14.5	-0.6	15.1
77	FOOD	14.2	-0.4	14.6
98	TVG	13.8	1.1	12.7
116	TEST	13.0	-1.4	14.4

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 10.3	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 75, Delta = 4.4	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.7	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.5	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.0	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 23:58:40  
Description:

Serial #: 7213632  
File: 4\_HOOVER

Cal Date: 06/15/05  
DOS File: 4\_HOOVER

Location: ?	AmpID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 82.0 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	11.0	-2.9	13.9
3	WRAL	11.6	-2.8	14.4
4	LOCL	13.9	-0.2	14.1
5	WGHP	11.5	-3.0	14.5
6	WUNC	10.1	-3.1	13.2
7	WRPX	13.0	-1.6	14.6
8	WUVC	14.0	-2.4	16.4
9	WNCN	12.2	-1.6	13.8
10	WRDC	12.8	-1.1	13.9
11	WRAZ	13.0	-2.7	15.7
12	WLFL	12.2	-2.0	14.2
13	WTVD	13.4	0.0	13.4
14	NC14	11.2	-3.3	14.5
15	HSN	11.4	-3.5	14.9
16	QVC	11.1	-3.1	14.2
17		11.9	-4.4	16.3
18	GOVT	13.3	-0.6	13.9
19	WRAY	11.2	-2.8	14.0
20	TWI1	10.9	-3.1	14.0
21	WGN	11.3	-2.9	14.2
22	BET	12.4	-1.4	13.8
24	TRI	13.4	-1.3	14.7
25	USA	11.9	-2.0	13.9
26	TNT	12.9	-1.4	14.3
27	A+E	13.2	-0.3	13.5
28	FFAM	14.2	-0.2	14.4
29	CNN	13.2	-1.1	14.3
30	DISC	13.1	-1.2	14.3
31	ESPN	13.6	-0.9	14.5
32	ESP2	13.5	-0.8	14.3
33	LIFE	13.4	-1.2	14.6
34	HSN	13.1	-1.0	14.1
35	QVC	13.7	-1.3	15.0
36	COM	13.0	-1.0	14.0
37	CNBC	12.8	-0.9	13.7
38	AMC	12.6	-1.6	14.2
39	TLC	13.3	-0.9	14.2
40	TNN	12.7	-1.4	14.1
41	HLN	12.5	-2.2	14.7
42	TWC	13.4	-1.4	14.8
43	NICK	12.6	-2.0	14.6
44	CORT	12.4	-2.3	14.7
45	MSN	12.4	-2.2	14.6
46	APL	13.0	-1.6	14.6
47	CNSI	12.2	-2.2	14.4
48	VH1	11.8	-2.7	14.5
49	SIFI	12.1	-1.7	13.8
50	FSN	12.6	-1.1	13.7
51	GOLF	12.5	-2.1	14.6

# AutoTest Report



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: P\_DOBSON  
Date: 07/28/05 Time: 23:58:40  
Description:

Serial #: 7213632  
File: 4\_HOOVER

Cal Date: 06/15/05  
DOS File: 4\_HOOVER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	12.5	-2.6	15.1
54	TVLN	12.6	-1.6	14.2
55	OXY	12.2	-2.6	14.8
56	HIST	11.9	-3.1	15.0
57	DISN	11.1	-3.7	14.8
58	FOXN	11.1	-2.9	14.0
59	CSPN	12.2	-1.3	13.5
60	CSP2	12.3	-2.2	14.5
61	WET	12.5	-1.5	14.0
62	E	12.2	-2.1	14.3
63	SOAP	12.7	-2.0	14.7
64	SNBC	12.8	-2.2	15.0
65	OLN	13.0	-2.0	15.0
66	ESPC	12.4	-1.9	14.3
67	TCM	12.8	-2.0	14.8
69	CMT	13.1	-1.4	14.5
70	NGEO	13.7	0.0	13.7
71	FX	14.0	-0.4	14.4
72	ISPN	13.7	-1.0	14.7
73	HLMK	14.2	0.6	13.6
74	TRAV	14.3	-0.6	14.9
75	TOON	14.8	-0.1	14.9
76	HGTV	14.5	-0.7	15.2
77	FOOD	13.7	-0.5	14.2
98	TVG	13.8	1.2	12.6
116	TEST	12.9	-1.4	14.3

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 10.1	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 75, Delta = 4.7	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.6	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.4	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.3	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill  
 Test Point Location: Lavender  
 Date of Test: 7-28-05 Time: 06:00  
 Tech(s) Performing Test: Terrell Henderson

Highest Band Pass: 770 MHz  
 Test Point Number: 8  
 Temperature: 77  
 Date Begun: 7-28-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer			
FSM	<u>SDA-5000</u>	<u>7213736</u>	<u>N/A</u>

Test Setup used: A 30 meeter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour. Date/Time: <u>7-28/06:00</u> <u>7-28/12:04</u> <u>7-28/18:01</u> <u>7-29/00:02</u>	Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed). Maximum Video Carrier Level <u>20.7</u> <u>20.4</u> <u>21</u> <u>19.5</u> Minimum Video Carrier Level <u>12.3</u> <u>12.6</u> <u>12.5</u> <u>11.8</u> Variation Highest & Lowest Video Levels <u>8.4</u> <u>7.8</u> <u>7.5</u> <u>7.7</u> Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth <u>14.5</u> Justification for any variation in this requirement:	Was the specification met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier. Justification for any variation in this requirement:	Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel? Justification for any variation greater than 3 dB:	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop. Justification for any video level less then 3 dBmV:	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
6. During this 24 hour test all video carrier level changes must be less then 8 dB Justification for any variation greater then 8 dB: _____ Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test. Justification for any variation greater then 8 dB: _____	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/> Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/28/05 Time: 06:00:04  
Description:

Serial #: 7213436  
File: 1LAVENDER

Cal Date: 03/21/05  
DOS File: 1LAVENDER

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 77.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.4	-0.1	13.5
3	WRAL	13.5	-0.5	14.0
4	LOCL	14.9	1.4	13.5
5	WGHP	16.8	0.4	16.4
6	WUNC	16.2	3.2	13.0
7	WRPX	18.4	3.9	14.5
8	WUVC	18.7	3.0	15.7
9	WNCN	17.7	4.2	13.5
10	WRDC	17.9	4.8	13.1
11	WRAZ	18.4	3.6	14.8
12	WLFL	18.7	5.6	13.1
13	WTVB	18.8	5.1	13.7
14	NC14	18.0	3.8	14.2
15	HSN	17.5	3.1	14.4
16	QVC	17.2	3.9	13.3
17		16.8	3.4	13.4
18	CSPN	18.1	3.8	14.3
19	WRAY	17.4	2.4	15.0
20	TWI1	17.4	2.3	15.1
21	WGN	18.0	4.5	13.5
22	BET	17.4	3.9	13.5
24	TRI	18.0	4.7	13.3
25	USA	17.6	5.4	12.2
26	TNT	18.4	5.3	13.1
27	A+E	19.3	5.4	13.9
28	FFAM	18.9	5.3	13.6
29	CNN	18.3	4.8	13.5
30	DISC	17.9	3.5	14.4
31	ESPN	18.1	4.4	13.7
32	ESP2	18.4	4.3	14.1
33	LIFE	17.2	3.0	14.2
34	HSN	15.8	1.5	14.3
35	QVC	15.9	1.3	14.6
36	COM	15.6	0.7	14.9
37	CNBC	14.1	-0.3	14.4
38	AMC	12.3	0.9	11.4
39	TLC	14.8	2.4	12.4
40	TNN	16.0	2.7	13.3
41	HLN	18.2	4.3	13.9
42	TWC	18.0	3.8	14.2
43	NICK	18.7	4.2	14.5
44	CORT	18.8	4.7	14.1
45	MSN	18.4	4.1	14.3
46	APL	17.9	3.6	14.3
47	CNSI	19.0	3.7	15.3
48	VH1	18.8	3.7	15.1
49	SIFI	18.2	4.0	14.2
50	FSN	19.0	4.1	14.9
51	GOLF	18.4	4.4	14.0



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T\*HENDERSN  
Date: 07/28/05 Time: 06:00:04  
Description:

Serial #: 7213436  
File: 1LAVENDER

Cal Date: 03/21/05  
DOS File: 1LAVENDER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	19.2	4.3	14.9
54	TVLN	19.0	4.5	14.5
55	OXY	18.9	4.9	14.0
56	HIST	19.6	5.6	14.0
57	DISN	19.9	6.5	13.4
58	FOXN	20.7	6.1	14.6
60	CSP2	20.1	6.4	13.7
61	WET	19.1	5.6	13.5
62	E	19.1	3.9	15.2
63	SOAP	19.1	4.6	14.5
64	SNBC	19.3	5.9	13.4
65	OLN	18.9	5.1	13.8
66	ESPC	18.3	4.5	13.8
67	TCM	18.0	3.2	14.8
69	CMT	17.1	1.9	15.2
70	NGEO	16.9	2.6	14.3
71	FX	16.9	2.4	14.5
72	ISPN	16.0	1.9	14.1
73	HLMK	15.8	2.6	13.2
74	TRAV	16.3	1.2	15.1
75	TOON	15.9	1.0	14.9
76	HGTV	15.5	0.3	15.2
77	FOOD	15.1	0.6	14.5
98	TVG	18.3	4.2	14.1
116	TEST	14.4	0.2	14.2

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 38 Video = 12.3	Pass
Max Delta Video Level	14.5 dB	Ch 38 and 58, Delta = 8.4	Pass
Min Delta V/A	10.0 dB	Ch 38 Delta V/A = 11.4	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.4	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 38 and 39, Delta = 2.5	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/28/05 Time: 12:04:14  
Description:

Serial #: 7213436  
File: 2LAVENDER

Cal Date: 03/21/05  
DOS File: 2LAVENDER

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 88.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.1	-0.1	13.2
3	WRAL	13.5	-0.3	13.8
4	LOCL	14.8	1.4	13.4
5	WGHP	16.1	2.8	13.3
6	WUNC	16.3	3.3	13.0
7	WRPX	18.2	4.0	14.2
8	WUVC	18.6	3.2	15.4
9	WNCN	17.8	4.3	13.5
10	WRDC	17.8	4.9	12.9
11	WRAZ	18.5	3.8	14.7
12	WLFL	18.4	5.6	12.8
13	WTVD	18.8	5.3	13.5
14	NC14	18.0	3.9	14.1
15	HSN	17.2	3.1	14.1
16	QVC	17.2	3.9	13.3
17		17.0	3.4	13.6
18	CSPN	17.9	3.8	14.1
19	WRAY	17.3	2.4	14.9
20	TW11	17.4	2.4	15.0
21	WGN	17.9	4.6	13.3
22	BET	17.2	4.0	13.2
24	TRI	18.0	4.9	13.1
25	USA	17.8	5.6	12.2
26	TNT	18.4	5.4	13.0
27	A+E	19.5	5.6	13.9
28	FFAM	19.0	5.5	13.5
29	CNN	18.6	5.1	13.5
30	DISC	18.0	3.7	14.3
31	ESPN	18.5	4.6	13.9
32	ESP2	18.5	4.6	13.9
33	LIFE	17.6	3.4	14.2
34	HSN	16.1	2.2	13.9
35	QVC	16.2	2.0	14.2
36	COM	16.3	1.9	14.4
37	CNBC	15.1	0.3	14.8
38	AMC	12.6	-0.1	12.7
39	TLC	13.5	1.4	12.1
40	TNN	14.9	2.1	12.8
41	HLN	17.3	4.1	13.2
42	TWC	17.6	3.7	13.9
43	NICK	18.5	4.1	14.4
44	CORT	18.5	4.6	13.9
45	MSN	18.5	4.3	14.2
46	APL	18.0	3.8	14.2
47	CNSI	18.8	3.7	15.1
48	VH1	19.1	3.7	15.4
49	SIFI	18.4	4.3	14.1
50	FSN	18.9	4.4	14.5
51	GOLF	18.4	4.8	13.6





Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/28/05 Time: 12:04:14  
Description:

Serial #: 7213436  
File: 2LAVENDER

Cal Date: 03/21/05  
DOS File: 2LAVENDER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	19.6	4.3	15.3
54	TVLN	19.1	4.6	14.5
55	OXY	18.8	5.1	13.7
56	HIST	19.5	5.6	13.9
57	DISN	19.6	6.6	13.0
58	FOXN	20.4	6.1	14.3
60	CSP2	20.3	6.6	13.7
61	WET	19.0	5.7	13.3
62	E	19.0	4.0	15.0
63	SOAP	19.0	4.5	14.5
64	SNBC	19.3	5.7	13.6
65	OLN	18.6	4.6	14.0
66	ESPC	18.1	4.6	13.5
67	TCM	18.1	3.2	14.9
69	CMT	17.2	1.9	15.3
70	NGEO	16.7	2.6	14.1
71	FX	16.8	2.2	14.6
72	ISPN	15.7	1.3	14.4
73	HLMK	15.5	2.3	13.2
74	TRAV	15.9	0.9	15.0
75	TOON	15.5	0.9	14.6
76	HGTV	15.1	-0.2	15.3
77	FOOD	14.6	0.3	14.3
98	TVG	18.3	4.3	14.0
116	TEST	13.8	-0.3	14.1

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 38 Video = 12.6	Pass
Max Delta Video Level	14.5 dB	Ch 38 and 58, Delta = 7.8	Pass
Min Delta V/A	10.0 dB	Ch 39 Delta V/A = 12.1	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.4	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 37 and 38, Delta = 2.5	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/28/05 Time: 18:01:51  
Description:

Serial #: 7213436  
File: 3LAVENDER

Cal Date: 03/21/05  
DOS File: 3LAVENDER

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 89.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	12.5	-0.5	13.0
3	WRAL	14.7	0.7	14.0
4	LOCL	14.9	1.7	13.2
5	WGHP	16.1	2.2	13.9
6	WUNC	16.1	2.5	13.6
7	WRPX	18.8	4.6	14.2
8	WUVC	18.7	3.7	15.0
9	WNCN	18.5	4.7	13.8
10	WRDC	18.8	4.9	13.9
11	WRAZ	18.8	3.6	15.2
12	WLFL	18.4	4.4	14.0
13	WTVD	19.4	6.0	13.4
14	NC14	17.1	2.6	14.5
15	HSN	17.6	2.5	15.1
16	QVC	17.2	3.2	14.0
17		17.8	2.5	15.3
18	CSPN	18.0	3.2	14.8
19	WRAY	17.5	3.2	14.3
20	TWI1	17.5	3.4	14.1
21	WGN	18.3	3.9	14.4
22	BET	18.3	4.6	13.7
24	TRI	20.0	6.0	14.0
25	USA	18.8	5.5	13.3
26	TNT	19.8	5.5	14.3
27	A+E	20.2	6.6	13.6
28	FFAM	20.2	6.3	13.9
29	CNN	19.1	5.1	14.0
30	DISC	18.6	4.1	14.5
31	ESPN	18.9	4.5	14.4
32	ESP2	19.0	4.3	14.7
33	LIFE	18.0	3.7	14.3
34	HSN	17.2	3.2	14.0
35	QVC	17.4	2.1	15.3
36	COM	16.9	2.6	14.3
37	CNBC	15.8	1.3	14.5
38	AMC	13.6	-0.4	14.0
39	TLC	14.2	0.4	13.8
40	TNN	14.9	2.8	12.1
41	HLN	17.0	3.7	13.3
42	TWC	18.6	4.3	14.3
43	NICK	18.4	4.5	13.9
44	CORT	18.9	4.4	14.5
45	MSN	19.4	5.2	14.2
46	APL	19.8	5.3	14.5
47	CNSI	18.8	4.9	13.9
48	VH1	19.0	4.6	14.4
49	SIFI	18.7	5.2	13.5
50	FSN	19.5	5.6	13.9
51	GOLF	19.0	5.3	13.7



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/28/05 Time: 18:01:51  
Description:

Serial #: 7213436  
File: 3LAVENDER

Cal Date: 03/21/05  
DOS File: 3LAVENDER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	19.8	5.0	14.8
54	TVLN	19.7	6.3	13.4
55	OXY	19.7	6.1	13.6
56	HIST	20.4	6.3	14.1
57	DISN	20.9	6.8	14.1
58	FOXN	20.9	6.9	14.0
60	CSP2	21.0	6.5	14.5
61	WET	20.3	6.4	13.9
62	E	19.9	5.1	14.8
63	SOAP	19.7	4.9	14.8
64	SNBC	19.9	5.0	14.9
65	OLN	19.5	4.4	15.1
66	ESPC	18.9	4.6	14.3
67	TCM	19.1	4.0	15.1
69	CMT	19.1	4.1	15.0
70	NGEO	18.8	4.2	14.6
71	FX	18.5	4.0	14.5
72	ISPN	17.9	3.1	14.8
73	HLMK	17.2	3.8	13.4
74	TRAV	17.4	2.7	14.7
75	TOON	17.3	2.3	15.0
76	HGTV	16.7	1.9	14.8
77	FOOD	16.9	2.2	14.7
98	TVG	19.5	5.3	14.2
116	TEST	16.0	1.5	14.5

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 12.5	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 60, Delta = 8.5	Pass
Min Delta V/A	10.0 dB	Ch 40 Delta V/A = 12.1	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 15.3	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 2 and 3, Delta = 2.2	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/29/05 Time: 00:02:39  
Description:

Serial #: 7213436  
File: 4LAVENDER

Cal Date: 03/21/05  
DOS File: 4LAVENDER

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 73.9 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.3	0.1	13.2
3	WRAL	15.0	1.3	13.7
4	LOCL	15.6	2.3	13.3
5	WGHP	16.7	2.4	14.3
6	WUNC	16.6	2.8	13.8
7	WRPX	18.4	3.9	14.5
8	WUVC	17.9	3.0	14.9
9	WNCN	17.8	4.2	13.6
10	WRDC	18.0	4.0	14.0
11	WRAZ	18.2	2.8	15.4
12	WLFL	17.5	3.2	14.3
13	WTVB	18.3	5.1	13.2
14	NC14	16.5	2.3	14.2
15	HSN	17.1	1.8	15.3
16	QVC	16.8	2.9	13.9
17		17.6	1.3	16.3
18	CSPN	17.6	2.8	14.8
19	WRAY	16.8	2.8	14.0
20	TWI1	16.7	3.2	13.5
21	WGN	18.3	3.3	15.0
22	BET	17.9	4.1	13.8
24	TRI	19.0	4.9	14.1
25	USA	17.9	4.0	13.9
26	TNT	18.3	4.0	14.3
27	A+E	18.9	5.3	13.6
28	FFAM	18.8	4.6	14.2
29	CNN	17.5	3.3	14.2
30	DISC	16.7	2.2	14.5
31	ESPN	17.1	2.3	14.8
32	ESP2	17.0	2.2	14.8
33	LIFE	16.0	1.3	14.7
34	HSN	14.6	-0.1	14.7
35	QVC	14.6	-1.7	16.3
36	COM	13.2	-1.7	14.9
37	CNBC	11.8	-1.4	13.2
38	AMC	12.5	0.3	12.2
39	TLC	15.5	2.0	13.5
40	TNN	16.4	2.9	13.5
41	HLN	17.1	2.8	14.3
42	TWC	17.7	3.3	14.4
43	NICK	17.4	3.1	14.3
44	CORT	18.0	3.1	14.9
45	MSN	17.8	3.7	14.1
46	APL	18.3	3.8	14.5
47	CNSI	17.5	3.4	14.1
48	VH1	17.4	2.9	14.5
49	SIFI	17.5	3.8	13.7
50	FSN	18.1	4.1	14.0
51	GOLF	17.5	3.6	13.9



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: T^HENDERSN  
Date: 07/29/05 Time: 00:02:39  
Description:

Serial #: 7213436  
File: 4LAVENDER

Cal Date: 03/21/05  
DOS File: 4LAVENDER

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	18.4	3.2	15.2
54	TVLN	17.9	4.4	13.5
55	OXY	18.2	4.4	13.8
56	HIST	19.0	4.4	14.6
57	DISN	19.1	5.0	14.1
58	FOXN	19.3	5.0	14.3
60	CSP2	19.5	4.9	14.6
61	WET	18.8	4.6	14.2
62	E	18.3	3.6	14.7
63	SOAP	18.6	3.5	15.1
64	SNBC	18.2	3.5	14.7
65	OLN	17.5	2.9	14.6
66	ESPC	17.6	2.7	14.9
67	TCM	17.3	2.7	14.6
69	CMT	17.3	2.1	15.2
70	NGEO	17.2	3.1	14.1
71	FX	17.3	2.8	14.5
72	ISPN	16.7	1.9	14.8
73	HLMK	16.1	3.0	13.1
74	TRAV	16.6	1.3	15.3
75	TOON	16.2	1.4	14.8
76	HGTV	15.6	0.7	14.9
77	FOOD	15.3	1.1	14.2
98	TVG	19.5	4.8	14.7
116	TEST	15.9	1.3	14.6

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 37 Video = 11.8	Pass
Max Delta Video Level	14.5 dB	Ch 98 and 37, Delta = 7.7	Pass
Min Delta V/A	10.0 dB	Ch 38 Delta V/A = 12.2	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 16.3	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 38 and 39, Delta = 3.0	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham / Chapel Hill  
 Test Point Location: Ravenwood  
 Date of Test: 7-29-05 Time: 12:05:30  
 Tech(s) Performing Test: John Schmidt

Highest Band Pass: 770 MHz  
 Test Point Number: 9  
 Temperature: 73  
 Date Begun: 7-29-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer			
FSM	<u>SDA5000</u>	<u>5513748</u>	<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

Date/Time	<u>7-29/12:05</u>	<u>7-29/18:01</u>	<u>7-29/23:53</u>	<u>7-30/06:11</u>
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Was the Specification Met? Yes , No

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>17.4</u>	<u>17.4</u>	<u>17.3</u>	<u>17.3</u>
Minimum Video Carrier Level	<u>8.5</u>	<u>8.4</u>	<u>8.4</u>	<u>8.3</u>
Variation Highest & Lowest Video Levels	<u>8.9</u>	<u>9.0</u>	<u>8.9</u>	<u>9.0</u>

Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5 Was the specification met? Yes , No

Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Was the Specification Met? Yes , No

Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Was this Specification Met? Yes , No

Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Was this Specification Met? Yes , No

Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Was this Specification Met? Yes , No

Justification for any variation greater then 8 dB: \_\_\_\_\_

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Was this Specification Met? Yes , No

Justification for any variation greater then 8 dB: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/29/05 Time: 12:05:30  
Description:

Serial #: 5513748  
File: 1RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 1RAVENWOOD\_

Location: ?	AmplID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 73.0 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	9.2	-5.0	14.2
3	WRAL	9.7	-4.4	14.1
4	LOCL	9.5	-4.5	14.0
5	WGHP	10.1	-4.2	14.3
6	WUNC	9.2	-4.4	13.6
7	WRPX	11.4	-2.6	14.0
8	WUVC	11.9	-4.0	15.9
9	WNCN	10.8	-2.7	13.5
10	WRDC	11.4	-2.5	13.9
11	WRAZ	11.0	-3.6	14.6
12	WLFL	10.6	-3.2	13.8
13	WTVD	11.7	-1.6	13.3
14	NC14	8.9	-5.1	14.0
15	HSN	9.0	-5.9	14.9
16	QVC	8.5	-7.2	15.7
17		11.2	-3.3	14.5
18	CSPN	10.4	-3.5	13.9
19	WRAY	10.0	-3.7	13.7
20	TWI1	9.9	-3.5	13.4
21	WGN	11.2	-2.9	14.1
22	BET	11.0	-2.5	13.5
24	TRI	12.3	-2.2	14.5
25	USA	11.1	-2.6	13.7
26	TNT	11.9	-2.4	14.3
27	A+E	12.1	-1.0	13.1
28	FFAM	12.7	-1.2	13.9
29	CNN	11.6	-2.4	14.0
30	DISC	11.3	-2.7	14.0
31	ESPN	11.3	-2.9	14.2
32	ESP2	11.4	-2.2	13.6
33	LIFE	11.7	-2.4	14.1
34	HSN	11.5	-1.8	13.3
35	QVC	12.5	-1.8	14.3
36	COM	12.2	-1.0	13.2
37	CNBC	12.6	-0.5	13.1
38	AMC	12.9	-1.0	13.9
39	TLC	13.4	-0.4	13.8
40	TNN	13.0	-0.7	13.7
41	HLN	13.0	-1.1	14.1
42	TWC	13.6	-0.6	14.2
43	NICK	13.3	-0.6	13.9
44	CORT	13.3	-0.9	14.2
45	MSN	13.5	-0.7	14.2
46	APL	14.3	-0.4	14.7
47	CNSI	13.2	-0.8	14.0
48	VH1	12.9	-1.2	14.1
49	SIFI	13.1	-0.1	13.2
50	FSN	13.8	0.2	13.6
51	GOLF	13.5	-0.1	13.6

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/29/05 Time: 12:05:30  
Description:

Serial #: 5513748  
File: 1RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 1RAVENWOOD\_

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	14.3	-0.2	14.5
54	TVLN	14.6	0.9	13.7
55	OXY	14.5	0.6	13.9
56	HIST	15.1	0.8	14.3
57	DISN	15.1	1.1	14.0
58	FOXN	15.3	0.9	14.4
60	CSP2	15.4	1.2	14.2
61	WET	15.5	1.3	14.2
62	E	14.8	1.4	13.4
63	SOAP	16.0	1.8	14.2
64	SNBC	16.4	2.2	14.2
65	OLN	16.5	2.0	14.5
66	ESPC	16.6	2.3	14.3
67	TCM	17.0	1.9	15.1
69	CMT	16.3	1.5	14.8
70	NGEO	16.6	2.9	13.7
71	FX	16.5	2.3	14.2
72	ISPN	16.4	2.1	14.3
73	HLMK	16.7	3.1	13.6
74	TRAV	17.0	2.2	14.8
75	TOON	17.2	2.5	14.7
76	HGTV	17.0	2.1	14.9
77	FOOD	16.6	2.5	14.1
98	TVG	11.6	-2.1	13.7
116	TEST	17.4	2.8	14.6

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 16 Video = 8.5	Pass
Max Delta Video Level	14.5 dB	Ch 16 and 116, Delta = 8.9	Pass
Min Delta V/A	10.0 dB	Ch 27 Delta V/A = 13.1	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.9	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 2.7	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			PASS

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/29/05 Time: 18:01:31  
Description:

Serial #: 5513748  
File: 2RAVENWOOD\_

Cal Date: 11/17/04  
DQS File: 2RAVENWOOD\_

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplD:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 79.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	9.5	-4.9	14.4
3	WRAL	9.7	-4.8	14.5
4	LOCL	9.2	-4.9	14.1
5	WGHP	9.7	-3.9	13.6
6	WUNC	9.6	-3.9	13.5
7	WRPX	12.0	-2.3	14.3
8	WUVC	11.9	-4.0	15.9
9	WNCN	10.5	-3.7	14.2
10	WRDC	10.4	-3.0	13.4
11	WRAZ	10.8	-3.6	14.4
12	WLFL	11.1	-2.4	13.5
13	WTVB	12.4	-0.9	13.3
14	NC14	8.9	-5.2	14.1
15	HSN	8.8	-6.0	14.8
16	QVC	8.4	-7.1	15.5
17		11.2	-2.2	13.4
18	CSPN	10.3	-3.6	13.9
19	WRAY	9.9	-4.0	13.9
20	TWI1	9.4	-4.1	13.5
21	WGN	10.9	-2.7	13.6
22	BET	11.1	-2.0	13.1
24	TRI	11.7	-2.6	14.3
25	USA	10.6	-2.7	13.3
26	TNT	12.0	-1.6	13.6
27	A+E	12.7	-0.6	13.3
28	FFAM	12.9	-1.3	14.2
29	CNN	11.5	-2.5	14.0
30	DISC	11.2	-2.7	13.9
31	ESPN	11.6	-2.5	14.1
32	ESP2	11.6	-2.0	13.6
33	LIFE	11.7	-2.5	14.2
34	HSN	11.3	-2.0	13.3
35	QVC	12.3	-1.7	14.0
36	COM	12.4	-0.6	13.0
37	CNBC	13.1	-0.1	13.2
38	AMC	13.0	-1.0	14.0
39	TLC	13.3	-0.9	14.2
40	TNN	12.5	-0.9	13.4
41	HLN	12.9	-0.8	13.7
42	TWC	13.9	0.2	13.7
43	NICK	13.8	-0.3	14.1
44	CORT	13.4	-1.2	14.6
45	MSN	13.1	-1.0	14.1
46	APL	13.7	-0.3	14.0
47	CNSI	13.3	-0.4	13.7
48	VH1	13.1	-1.2	14.3
49	SIFI	13.2	-0.2	13.4
50	FSN	13.6	0.1	13.5
51	GOLF	13.2	-0.1	13.3

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/29/05 Time: 18:01:31  
Description:

Serial #: 5513748  
File: 2RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 2RAVENWOOD\_

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	14.5	-0.1	14.6
54	TVLN	14.5	0.6	13.9
55	OXY	14.3	0.3	14.0
56	HIST	14.6	0.9	13.7
57	DISN	15.4	1.5	13.9
58	FOXN	15.7	1.6	14.1
60	CSP2	15.9	1.4	14.5
61	WET	15.4	1.3	14.1
62	E	14.9	1.5	13.4
63	SOAP	16.1	2.0	14.1
64	SNBC	16.7	2.3	14.4
65	OLN	16.7	2.0	14.7
66	ESPC	16.5	2.0	14.5
67	TCM	16.8	1.7	15.1
69	CMT	16.3	1.6	14.7
70	NGEO	16.7	3.0	13.7
71	FX	16.6	2.5	14.1
72	ISPN	16.6	2.4	14.2
73	HLMK	16.8	3.3	13.5
74	TRAV	16.9	2.2	14.7
75	TOON	17.4	2.5	14.9
76	HGTV	16.9	2.1	14.8
77	FOOD	16.7	2.7	14.0
98	TVG	11.3	-2.1	13.4
116	TEST	17.3	3.4	13.9

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 16 Video = 8.4	Pass
Max Delta Video Level	14.5 dB	Ch 16 and 75, Delta = 9.0	Pass
Min Delta V/A	10.0 dB	Ch 36 Delta V/A = 13.0	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.9	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 2.8	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/29/05 Time: 23:53:34  
Description:

Serial #: 5513748  
File: 3RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 3RAVENWOOD\_

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 72.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	9.6	-4.8	14.4
3	WRAL	9.7	-4.8	14.5
4	LOCL	9.2	-4.8	14.0
5	WGHP	9.7	-3.8	13.5
6	WUNC	9.4	-3.9	13.3
7	WRPX	12.0	-2.2	14.2
8	WJVC	12.0	-4.0	16.0
9	WNCN	10.5	-3.7	14.2
10	WRDC	10.5	-3.0	13.5
11	WRAZ	10.8	-3.5	14.3
12	WLFL	11.1	-2.3	13.4
13	WTVD	12.5	-0.9	13.4
14	NC14	9.0	-5.1	14.1
15	HSN	8.9	-6.0	14.9
16	QVC	8.4	-7.0	15.4
17		11.2	-3.2	14.4
18	CSPN	10.3	-3.5	13.8
19	WRAY	9.8	-3.8	13.6
20	TWI1	9.5	-4.0	13.5
21	WGN	10.9	-2.8	13.7
22	BET	11.1	-2.0	13.1
24	TRI	11.8	-2.6	14.4
25	USA	10.9	-2.6	13.5
26	TNT	12.1	-1.5	13.6
27	A+E	12.6	-0.6	13.2
28	FFAM	13.1	-1.2	14.3
29	CNN	11.7	-2.4	14.1
30	DISC	11.3	-2.7	14.0
31	ESPN	11.6	-2.5	14.1
32	ESP2	11.8	-1.9	13.7
33	LIFE	11.8	-2.4	14.2
34	HSN	11.4	-1.8	13.2
35	QVC	12.3	-1.6	13.9
36	COM	12.5	-0.6	13.1
37	CNBC	13.1	0.0	13.1
38	AMC	13.0	-0.9	13.9
39	TLC	13.2	-0.8	14.0
40	TNN	12.7	-0.9	13.6
41	HLN	12.9	-0.8	13.7
42	TWC	13.9	0.0	13.9
43	NICK	13.8	-0.3	14.1
44	CORT	13.4	-1.2	14.6
45	MSN	13.0	-1.0	14.0
46	APL	13.8	-0.3	14.1
47	CNSI	13.4	-0.4	13.8
48	VH1	13.1	-1.3	14.4
49	SIFI	13.1	-0.3	13.4
50	FSN	13.5	0.1	13.4
51	GOLF	13.2	-0.1	13.3

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/29/05 Time: 23:53:34  
Description:

Serial #: 5513748  
File: 3RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 3RAVENWOOD\_

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	14.5	-0.1	14.6
54	TVLN	14.5	0.6	13.9
55	OXY	14.2	0.3	13.9
56	HIST	14.6	1.0	13.6
57	DISN	15.4	1.5	13.9
58	FOXN	15.8	1.6	14.2
60	CSP2	15.8	1.5	14.3
61	WET	15.4	1.3	14.1
62	E	14.9	1.3	13.6
63	SOAP	16.0	1.8	14.2
64	SNBC	16.6	2.3	14.3
65	OLN	16.7	2.0	14.7
66	ESPC	16.5	1.9	14.6
67	TCM	16.6	1.6	15.0
69	CMT	16.3	1.6	14.7
70	NGEO	16.5	3.0	13.5
71	FX	16.5	2.5	14.0
72	ISPN	16.5	2.3	14.2
73	HLMK	16.6	3.1	13.5
74	TRAV	17.1	2.1	15.0
75	TOON	17.2	2.5	14.7
76	HGTV	16.8	2.0	14.8
77	FOOD	16.5	2.6	13.9
98	TVG	11.6	-1.9	13.5
116	TEST	17.3	3.3	14.0

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 16 Video = 8.4	Pass
Max Delta Video Level	14.5 dB	Ch 16 and 116, Delta = 8.9	Pass
Min Delta V/A	10.0 dB	Ch 22 Delta V/A = 13.1	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.0	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 2.8	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/30/05 Time: 06:11:08  
Description:

Serial #: 5513748  
File: 4RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 4RAVENWOOD\_

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 72.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	9.5	-4.9	14.4
3	WRAL	9.5	-4.9	14.4
4	LOCL	9.1	-4.9	14.0
5	WGHP	9.6	-3.9	13.5
6	WUNC	9.5	-3.9	13.4
7	WRPX	11.9	-2.2	14.1
8	WUVC	11.9	-3.8	15.7
9	WNCN	10.4	-3.7	14.1
10	WRDC	10.4	-3.1	13.5
11	WRAZ	10.7	-3.6	14.3
12	WLFL	11.0	-2.4	13.4
13	WTVD	12.3	-0.9	13.2
14	NC14	9.0	-5.2	14.2
15	HSN	8.8	-6.0	14.8
16	QVC	8.3	-7.1	15.4
17		11.1	-2.0	13.1
18	CSPN	10.3	-3.7	14.0
19	WRAY	9.9	-4.0	13.9
20	TWI1	9.3	-4.1	13.4
21	WGN	10.8	-2.8	13.6
22	BET	11.0	-2.0	13.0
24	TRI	11.6	-2.6	14.2
25	USA	10.8	-2.8	13.6
26	TNT	11.9	-1.5	13.4
27	A+E	12.6	-0.7	13.3
28	FFAM	12.9	-1.2	14.1
29	CNN	11.5	-2.5	14.0
30	DISC	11.1	-2.7	13.8
31	ESPN	11.6	-2.5	14.1
32	ESP2	11.6	-2.0	13.6
33	LIFE	11.6	-2.5	14.1
34	HSN	11.3	-2.1	13.4
35	QVC	12.3	-1.6	13.9
36	COM	12.3	-0.6	12.9
37	CNBC	13.1	-0.1	13.2
38	AMC	13.1	-1.0	14.1
39	TLC	13.2	-0.9	14.1
40	TNN	12.5	-0.8	13.3
41	HLN	12.9	-0.7	13.6
42	TWC	14.0	0.1	13.9
43	NICK	13.8	-0.3	14.1
44	CORT	13.4	-1.1	14.5
45	MSN	13.1	-1.1	14.2
46	APL	13.8	-0.2	14.0
47	CNSI	13.4	-0.4	13.8
48	VH1	13.1	-1.2	14.3
49	SIFI	13.1	-0.3	13.4
50	FSN	13.6	0.1	13.5
51	GOLF	13.2	-0.1	13.3

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: J\_SCHMITT  
Date: 07/30/05 Time: 06:11:08  
Description:

Serial #: 5513748  
File: 4RAVENWOOD\_

Cal Date: 11/17/04  
DOS File: 4RAVENWOOD\_

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	14.6	-0.1	14.7
54	TVLN	14.6	0.8	13.8
55	OXY	14.0	0.4	13.6
56	HIST	14.6	0.8	13.8
57	DISN	15.4	1.5	13.9
58	FOXN	15.8	1.7	14.1
60	CSP2	15.9	1.4	14.5
61	WET	15.3	1.3	14.0
62	E	14.8	1.4	13.4
63	SOAP	16.1	1.9	14.2
64	SNBC	16.6	2.3	14.3
65	OLN	16.6	1.9	14.7
66	ESPC	16.4	2.0	14.4
67	TCM	16.6	1.7	14.9
69	CMT	16.3	1.6	14.7
70	NGEO	16.6	2.9	13.7
71	FX	16.5	2.4	14.1
72	ISPN	16.5	2.3	14.2
73	HLMK	16.9	3.3	13.6
74	TRAV	16.9	2.1	14.8
75	TOON	17.2	2.5	14.7
76	HGTV	16.8	2.1	14.7
77	FOOD	16.7	2.7	14.0
98	TVG	11.4	-2.0	13.4
116	TEST	17.3	3.4	13.9

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 16 Video = 8.3	Pass
Max Delta Video Level	14.5 dB	Ch 16 and 116, Delta = 9.0	Pass
Min Delta V/A	10.0 dB	Ch 36 Delta V/A = 12.9	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.7	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 2.8	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham / Chapel Hill  
 Test Point Location: Dixon Rd  
 Date of Test: 7-28-05 Time: 06:01  
 Tech(s) Performing Test: Rodney Houlier

Highest Band Pass: 770 MHz  
 Test Point Number: 10  
 Temperature: 73.9  
 Date Begun: 7-28-05  
 Last

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer			
FSM	<u>SDA-5000</u>	<u>8513331</u>	<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

Date/Time	<u>7-28/06:01</u>	<u>7-28/12:01</u>	<u>7-28/18:04</u>	<u>7-29/00:00:57</u>
	Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>			

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>17.6</u>	<u>17</u>	<u>16.6</u>	<u>17.4</u>
Minimum Video Carrier Level	<u>4.1</u>	<u>4.3</u>	<u>3.5</u>	<u>3.9</u>
Variation Highest & Lowest Video Levels	<u>13.5</u>	<u>12.7</u>	<u>13.1</u>	<u>13.5</u>
Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth	<u>14.5</u>			

Justification for any variation in this requirement: \_\_\_\_\_

Was the specification met? Yes , No

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Was the Specification Met? Yes , No

Justification for any variation in this requirement: \_\_\_\_\_

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Was this Specification Met? Yes , No

Justification for any variation greater than 3 dB: \_\_\_\_\_

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Was this Specification Met? Yes , No

Justification for any video level less then 3 dBmV: \_\_\_\_\_

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Was this Specification Met? Yes , No

Justification for any variation greater then 8 dB: \_\_\_\_\_

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Was this Specification Met? Yes , No

Justification for any variation greater then 8 dB: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/28/05 Time: 06:01:28  
Description:

Serial #: 8513331  
File: 1DIXON

Cal Date: 08/06/04  
DOS File: 1DIXON

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplD:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 73.9 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	8.6	-6.9	15.5
3	WRAL	6.7	-9.8	16.5
4	LOCL	5.1	-9.9	15.0
5	WGHP	5.0	-11.5	16.5
6	WUNC	4.1	-9.0	13.1
7	WRPX	10.6	-3.3	13.9
8	WUVC	11.7	-3.3	15.0
9	WNCN	10.7	-2.6	13.3
10	WRDC	11.3	-1.3	12.6
11	WRAZ	11.2	-3.1	14.3
12	WLFL	11.5	-0.8	12.3
13	WTVD	12.4	-1.1	13.5
14	NC14	7.9	-5.5	13.4
15	HSN	7.9	-5.6	13.5
16	QVC	8.1	-4.7	12.8
17		8.7	-6.0	14.7
18	CSPN	9.8	-3.8	13.6
19	WRAY	9.3	-5.3	14.6
20	TWI1	9.5	-5.3	14.8
21	WGN	10.4	-2.4	12.8
22	BET	9.9	-3.4	13.3
24	TRI	11.2	-2.0	13.2
25	USA	11.5	-1.4	12.9
26	TNT	11.7	-1.0	12.7
27	A+E	12.5	-0.8	13.3
28	FFAM	12.8	-0.4	13.2
29	CNN	12.6	-0.4	13.0
30	DISC	12.9	-1.1	14.0
31	ESPN	13.1	-0.1	13.2
32	ESP2	13.2	0.0	13.2
33	LIFE	13.1	-0.4	13.5
34	HSN	12.4	-1.0	13.4
35	QVC	13.7	0.3	13.4
36	COM	13.9	0.7	13.2
37	CNBC	14.2	0.6	13.6
38	AMC	13.6	0.9	12.7
39	TLC	13.7	0.7	13.0
40	TNN	13.7	-0.6	14.3
41	HLN	14.3	0.7	13.6
42	TWC	14.1	0.0	14.1
43	NICK	14.9	0.9	14.0
44	CORT	14.9	1.4	13.5
45	MSN	14.6	0.7	13.9
46	APL	14.4	0.6	13.8
47	CNSI	16.0	0.3	15.7
48	VH1	15.6	0.3	15.3
49	SIFI	15.8	1.1	14.7
50	FSN	15.7	0.7	15.0
51	GOLF	14.7	1.3	13.4



# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/28/05 Time: 06:01:28  
Description:

Serial #: 8513331  
File: 1DIXON

Cal Date: 08/06/04  
DOS File: 1DIXON

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	16.3	1.5	14.8
54	TVLN	16.3	1.5	14.8
55	OXY	15.8	1.9	13.9
56	HIST	16.4	2.5	13.9
57	DISN	16.7	3.5	13.2
58	FOXN	17.4	3.1	14.3
60	CSP2	17.2	3.7	13.5
61	WET	16.8	3.4	13.4
62	E	16.7	2.1	14.6
63	SOAP	17.4	2.9	14.5
64	SNBC	17.6	4.3	13.3
65	OLN	17.3	3.8	13.5
66	ESPC	16.8	3.4	13.4
67	TCM	16.8	2.2	14.6
69	CMT	16.1	1.2	14.9
70	NGEO	16.1	1.9	14.2
71	FX	15.7	1.5	14.2
72	ISPN	15.8	0.9	14.9
73	HLMK	15.8	2.1	13.7
74	TRAV	15.8	0.5	15.3
75	TOON	15.9	1.0	14.9
76	HGTV	15.0	0.5	14.5
77	FOOD	14.8	0.8	14.0
98	TVG	7.1	-6.4	13.5
116	TEST	13.6	0.0	13.6

**LIMIT CHECK**

	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 4.1	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 64, Delta = 13.5	Pass
Min Delta V/A	10.0 dB	Ch 12 Delta V/A = 12.3	Pass
Max Delta V/A	17.0 dB	Ch 3 Delta V/A = 16.5	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 2 and 3, Delta = 1.9	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/28/05 Time: 12:01:14  
Description:

Serial #: 8513331  
File: 2DIXON

Cal Date: 08/06/04  
DOS File: 2DIXON

Location: ?	AmpID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 84.0 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	9.4	-5.8	15.2
3	WRAL	7.3	-8.9	16.2
4	LOCL	5.7	-9.2	14.9
5	WGHP	4.9	-8.5	13.4
6	WUNC	4.3	-8.5	12.8
7	WRPX	10.3	-3.9	14.2
8	WUVC	11.4	-3.5	14.9
9	WNCN	10.4	-3.0	13.4
10	WRDC	11.0	-1.6	12.6
11	WRAZ	11.2	-3.2	14.4
12	WLFL	11.2	-1.2	12.4
13	WTVD	11.9	-1.5	13.4
14	NC14	7.7	-5.5	13.2
15	HSN	7.3	-6.1	13.4
16	QVC	7.8	-4.8	12.6
17		8.3	-6.8	15.1
18	CSPN	9.5	-3.9	13.4
19	WRAY	9.2	-5.6	14.8
20	TWI1	8.9	-6.0	14.9
21	WGN	9.7	-2.8	12.5
22	BET	9.5	-3.8	13.3
24	TRI	10.9	-2.4	13.3
25	USA	11.3	-1.6	12.9
26	TNT	11.4	-1.2	12.6
27	A+E	12.2	-1.0	13.2
28	FFAM	12.5	-0.7	13.2
29	CNN	12.5	-0.7	13.2
30	DISC	12.5	-1.4	13.9
31	ESPN	12.8	-0.4	13.2
32	ESP2	12.7	-0.7	13.4
33	LIFE	12.7	-0.6	13.3
34	HSN	12.3	-1.1	13.4
35	QVC	13.4	-0.1	13.5
36	COM	13.7	0.5	13.2
37	CNBC	13.9	0.5	13.4
38	AMC	13.4	0.7	12.7
39	TLC	13.8	0.8	13.0
40	TNN	13.3	-1.0	14.3
41	HLN	14.2	0.4	13.8
42	TWC	13.8	-0.4	14.2
43	NICK	14.8	0.5	14.3
44	CORT	14.6	1.2	13.4
45	MSN	14.3	0.3	14.0
46	APL	14.0	0.4	13.6
47	CNSI	15.3	-0.2	15.5
48	VH1	14.9	-0.3	15.2
49	SIFI	15.0	0.8	14.2
50	FSN	15.0	0.5	14.5
51	GOLF	14.3	1.1	13.2



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/28/05 Time: 12:01:14  
Description:

Serial #: 8513331  
File: 2DIXON

Cal Date: 08/06/04  
DOS File: 2DIXON

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	15.5	1.2	14.3
54	TVLN	15.6	1.3	14.3
55	OXY	15.2	1.7	13.5
56	HIST	15.6	2.0	13.6
57	DISN	15.8	3.2	12.6
58	FOXN	17.0	2.8	14.2
60	CSP2	16.7	3.3	13.4
61	WET	16.0	3.0	13.0
62	E	15.8	1.7	14.1
63	SOAP	16.9	2.5	14.4
64	SNBC	16.9	3.8	13.1
65	OLN	16.7	3.3	13.4
66	ESPC	16.3	3.0	13.3
67	TCM	16.4	1.7	14.7
69	CMT	15.3	0.9	14.4
70	NGEO	15.4	1.5	13.9
71	FX	15.0	1.1	13.9
72	ISPN	15.0	0.6	14.4
73	HLMK	15.1	1.8	13.3
74	TRAV	14.9	0.2	14.7
75	TOON	15.0	0.6	14.4
76	HGTV	14.7	0.0	14.7
77	FOOD	14.4	0.5	13.9
98	TVG	7.0	-6.3	13.3
116	TEST	13.1	-0.5	13.6

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 4.3	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 58, Delta = 12.7	Pass
Min Delta V/A	10.0 dB	Ch 12 Delta V/A = 12.4	Pass
Max Delta V/A	17.0 dB	Ch 3 Delta V/A = 16.2	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 2 and 3, Delta = 2.1	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000

Operator: R^HOULIER

Date: 07/28/05 Time: 18:04:38

Description:

Serial #: 8513331

File: 3DIXON

Cal Date: 08/06/04

DOS File: 3DIXON

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 89.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	8.1	-7.0	15.1
3	WRAL	7.3	-8.5	15.8
4	LOCL	5.3	-9.6	14.9
5	WGHP	4.0	-9.9	13.9
6	WUNC	3.5	-10.0	13.5
7	WRPX	10.6	-3.5	14.1
8	WUVC	11.1	-3.6	14.7
9	WNCN	10.8	-2.5	13.3
10	WRDC	11.5	-1.8	13.3
11	WRAZ	11.4	-3.6	15.0
12	WLFL	10.7	-2.9	13.6
13	WTVD	12.1	-1.1	13.2
14	NC14	6.4	-7.3	13.7
15	HSN	7.3	-7.2	14.5
16	QVC	7.3	-6.0	13.3
17		9.0	-4.8	13.8
18	CSPN	9.2	-4.9	14.1
19	WRAY	8.9	-5.2	14.1
20	TWI1	8.6	-5.0	13.6
21	WGN	9.8	-4.0	13.8
22	BET	10.2	-3.3	13.5
24	TRI	12.3	-1.6	13.9
25	USA	11.7	-2.1	13.8
26	TNT	12.2	-1.6	13.8
27	A+E	12.5	-0.6	13.1
28	FFAM	13.1	-0.6	13.7
29	CNN	12.4	-1.4	13.8
30	DISC	12.2	-1.7	13.9
31	ESPN	12.5	-1.4	13.9
32	ESP2	12.8	-1.0	13.8
33	LIFE	12.6	-1.3	13.9
34	HSN	12.3	-1.0	13.3
35	QVC	13.2	-1.2	14.4
36	COM	13.1	-0.6	13.7
37	CNBC	13.2	-0.6	13.8
38	AMC	12.9	-0.8	13.7
39	TLC	13.8	-0.2	14.0
40	TNN	13.3	-0.3	13.6
41	HLN	13.2	-0.8	14.0
42	TWC	13.9	-0.3	14.2
43	NICK	13.8	0.0	13.8
44	CORT	14.0	-0.2	14.2
45	MSN	14.3	0.2	14.1
46	APL	15.1	1.1	14.0
47	CNSI	14.4	0.4	14.0
48	VH1	13.9	0.0	13.9
49	SIFI	14.5	1.0	13.5
50	FSN	14.9	1.1	13.8
51	GOLF	14.1	0.4	13.7



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/28/05 Time: 18:04:38  
Description:

Serial #: 8513331  
File: 3DIXON

Cal Date: 08/06/04  
DOS File: 3DIXON

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	15.0	1.1	13.9
54	TVLN	15.4	2.0	13.4
55	OXY	15.1	1.7	13.4
56	HIST	15.8	1.8	14.0
57	DISN	16.1	2.2	13.9
58	FOXN	16.3	2.3	14.0
60	CSP2	16.6	2.5	14.1
61	WET	16.3	2.6	13.7
62	E	15.7	2.2	13.5
63	SOAP	16.5	2.2	14.3
64	SNBC	16.4	2.2	14.2
65	OLN	16.4	2.1	14.3
66	ESPC	16.2	2.2	14.0
67	TCM	16.4	1.8	14.6
69	CMT	16.2	1.9	14.3
70	NGEO	16.1	2.4	13.7
71	FX	16.0	1.9	14.1
72	ISPN	15.9	1.5	14.4
73	HLMK	15.8	2.7	13.1
74	TRAV	15.7	1.4	14.3
75	TOON	16.1	1.9	14.2
76	HGTV	15.9	1.2	14.7
77	FOOD	15.4	1.4	14.0
98	TVG	7.7	-5.9	13.6
116	TEST	14.6	0.5	14.1

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 3.5	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 60, Delta = 13.1	Pass
Min Delta V/A	10.0 dB	Ch 27 Delta V/A = 13.1	Pass
Max Delta V/A	17.0 dB	Ch 3 Delta V/A = 15.8	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.0	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/29/05 Time: 00:00:57  
Description:

Serial #: 8513331  
File: 4DIXON

Cal Date: 08/06/04  
DOS File: 4DIXON

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 75.9 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	8.4	-7.0	15.4
3	WRAL	7.7	-8.4	16.1
4	LOCL	5.6	-9.5	15.1
5	WGHP	4.6	-9.9	14.5
6	WUNC	3.9	-9.9	13.8
7	WRPX	10.9	-3.0	13.9
8	WUVC	11.4	-3.3	14.7
9	WNCN	11.0	-2.4	13.4
10	WRDC	11.6	-1.9	13.5
11	WRAZ	11.4	-3.6	15.0
12	WLFL	10.9	-2.8	13.7
13	WTVD	12.4	-0.8	13.2
14	NC14	6.7	-7.0	13.7
15	HSN	7.4	-7.2	14.6
16	QVC	7.7	-5.6	13.3
17		9.4	-5.5	14.9
18	CSPN	9.5	-4.6	14.1
19	WRAY	9.2	-4.6	13.8
20	TWI1	9.2	-4.3	13.5
21	WGN	10.4	-3.4	13.8
22	BET	10.6	-2.8	13.4
24	TRI	12.8	-1.2	14.0
25	USA	12.3	-1.7	14.0
26	TNT	12.5	-1.3	13.8
27	A+E	13.2	0.1	13.1
28	FFAM	13.6	-0.2	13.8
29	CNN	12.9	-1.0	13.9
30	DISC	12.7	-1.3	14.0
31	ESPN	13.0	-1.1	14.1
32	ESP2	13.1	-0.9	14.0
33	LIFE	13.1	-0.9	14.0
34	HSN	12.8	-0.7	13.5
35	QVC	13.9	-0.8	14.7
36	COM	13.6	0.1	13.5
37	CNBC	13.7	0.1	13.6
38	AMC	13.4	0.0	13.4
39	TLC	14.3	0.6	13.7
40	TNN	13.9	0.2	13.7
41	HLN	13.8	-0.3	14.1
42	TWC	14.6	0.4	14.2
43	NICK	14.3	0.6	13.7
44	CORT	14.6	0.5	14.1
45	MSN	14.9	1.1	13.8
46	APL	16.1	1.6	14.5
47	CNSI	15.1	1.1	14.0
48	VH1	14.6	0.6	14.0
49	SIFI	15.0	1.6	13.4
50	FSN	15.4	1.7	13.7
51	GOLF	14.9	1.2	13.7



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: R^HOULIER  
Date: 07/29/05 Time: 00:00:57  
Description:

Serial #: 8513331  
File: 4DIXON

Cal Date: 08/06/04  
DOS File: 4DIXON

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	15.9	1.5	14.4
54	TVLN	16.1	2.5	13.6
55	OXY	16.2	2.2	14.0
56	HIST	16.5	2.3	14.2
57	DISN	16.9	2.7	14.2
58	FOXN	17.0	2.7	14.3
60	CSP2	17.3	3.2	14.1
61	WET	17.1	3.1	14.0
62	E	16.5	2.5	14.0
63	SOAP	17.4	2.7	14.7
64	SNBC	17.4	2.6	14.8
65	OLN	17.0	2.4	14.6
66	ESPC	17.1	2.6	14.5
67	TCM	17.1	2.2	14.9
69	CMT	16.6	1.8	14.8
70	NGEO	17.0	2.8	14.2
71	FX	16.6	2.3	14.3
72	ISPN	16.5	1.8	14.7
73	HLMK	16.4	2.9	13.5
74	TRAV	16.5	1.5	15.0
75	TOON	16.7	2.1	14.6
76	HGTV	16.4	1.5	14.9
77	FOOD	15.6	1.6	14.0
98	TVG	8.1	-5.5	13.6
116	TEST	14.6	0.5	14.1

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 6 Video = 3.9	Pass
Max Delta Video Level	14.5 dB	Ch 6 and 63, Delta = 13.5	Pass
Min Delta V/A	10.0 dB	Ch 27 Delta V/A = 13.1	Pass
Max Delta V/A	17.0 dB	Ch 3 Delta V/A = 16.1	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 2.1	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham / Chapel Hill  
 Test Point Location: Arborfield  
 Date of Test: 7-28-05 Time: 06:08  
 Tech(s) Performing Test: Eddie Blake

Highest Band Pass: 770 MHz  
 Test Point Number: 11  
 Temperature: 76  
 Date Begun: 7-28-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer			
FSM	<u>SDA - 5000</u>	<u>5513748</u>	<u>N/A</u>

Test Setup used: A 30 meeter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.

Date/Time	<u>7-28 06:08</u>	<u>7-28 12:07</u>	<u>7-28 18:07</u>	<u>7-29 00:06</u>
	Was the Specification Met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>13.5</u>	<u>13.8</u>	<u>14.2</u>	<u>13.9</u>
Minimum Video Carrier Level	<u>9.8</u>	<u>9.9</u>	<u>10.5</u>	<u>9.8</u>
Variation Highest & Lowest Video Levels	<u>3.7</u>	<u>3.9</u>	<u>3.7</u>	<u>4.1</u>

Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5 Was the specification met? Yes  No

Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.

Was the Specification Met? Yes  No

Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:

Was this Specification Met? Yes  No

Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.

Was this Specification Met? Yes  No

Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB: \_\_\_\_\_

Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.

Was this Specification Met? Yes  No

Justification for any variation greater then 8 dB: \_\_\_\_\_



# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/28/05 Time: 06:08:17  
Description:

Serial #: 5513748  
File: 1ARBORFIELD

Cal Date: 11/17/04  
DOS File: 1ARBORFIELD

Location: ?	AmpID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 75.9 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	12.1	-2.1	14.2
3	WRAL	12.3	-2.0	14.3
4	LOCL	11.7	-2.1	13.8
5	WGHP	11.8	-1.8	13.6
6	WUNC	11.4	-2.1	13.5
7	WRPX	11.2	-3.0	14.2
8	WUVC	11.1	-4.0	15.1
9	WNCN	10.3	-3.4	13.7
10	WRDC	10.9	-2.8	13.7
11	WRAZ	10.9	-4.3	15.2
12	WLFL	10.4	-3.1	13.5
13	WTVD	11.7	-1.9	13.6
14	NC14	10.4	-3.1	13.5
15	HSN	10.7	-3.6	14.3
16	QVC	10.6	-2.6	13.2
17		12.0	-3.5	15.5
18	CSPN	11.6	-2.4	14.0
19	WRAY	11.1	-2.9	14.0
20	TWI1	10.3	-3.1	13.4
21	WGN	11.2	-2.8	14.0
22	BET	11.3	-2.6	13.9
24	TRI	11.5	-2.3	13.8
25	USA	10.8	-2.9	13.7
26	TNT	11.3	-2.8	14.1
27	A+E	11.5	-1.6	13.1
28	FFAM	11.8	-2.1	13.9
29	CNN	10.9	-3.1	14.0
30	DISC	11.1	-3.2	14.3
31	ESPN	10.9	-3.2	14.1
32	ESP2	10.9	-2.9	13.8
33	LIFE	10.8	-3.2	14.0
34	HSN	10.7	-3.0	13.7
35	QVC	11.4	-3.2	14.6
36	COM	11.1	-2.6	13.7
37	CNBC	11.1	-2.5	13.6
38	AMC	11.0	-2.7	13.7
39	TLC	11.9	-1.9	13.8
40	TNN	11.6	-1.9	13.5
41	HLN	11.6	-2.7	14.3
42	TWC	12.0	-2.3	14.3
43	NICK	11.7	-2.5	14.2
44	CORT	11.6	-2.5	14.1
45	MSN	12.0	-2.2	14.2
46	APL	12.4	-1.6	14.0
47	CNSI	11.7	-2.6	14.3
48	VH1	10.9	-3.2	14.1
49	SIFI	11.4	-2.4	13.8
50	FSN	11.6	-2.0	13.6
51	GOLF	11.1	-2.7	13.8



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/28/05 Time: 06:08:17  
Description:

Serial #: 5513748  
File: 1ARBORFIELD

Cal Date: 11/17/04  
DOS File: 1ARBORFIELD

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	11.4	-2.7	14.1
54	TVLN	11.6	-1.7	13.3
55	OXY	11.4	-2.1	13.5
56	HIST	11.8	-2.1	13.9
57	DISN	11.6	-1.0	12.6
58	FOXN	12.7	-1.0	13.7
60	CSP2	12.2	-0.2	12.4
61	WET	12.1	-1.3	13.4
62	E	11.6	-3.2	14.8
63	SOAP	11.8	-2.5	14.3
64	SNBC	11.7	-1.4	13.1
65	OLN	11.5	-1.3	12.8
66	ESPC	11.3	-1.6	12.9
67	TCM	11.6	-2.8	14.4
69	CMT	10.4	-4.1	14.5
70	NGEO	10.5	-3.3	13.8
71	FX	10.2	-3.9	14.1
72	ISPN	10.2	-4.4	14.6
73	HLMK	9.8	-3.3	13.1
74	TRAV	10.0	-4.4	14.4
75	TOON	10.0	-4.1	14.1
76	HGTV	9.9	-4.8	14.7
77	FOOD	9.8	-4.2	14.0
98	TVG	13.5	-0.3	13.8
116	TEST	13.5	-0.8	14.3

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 73 Video = 9.8	Pass
Max Delta Video Level	14.5 dB	Ch 98 and 73, Delta = 3.7	Pass
Min Delta V/A	10.0 dB	Ch 60 Delta V/A = 12.4	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 15.5	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.4	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
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Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/28/05 Time: 12:07:22  
Description:

Serial #: 5513748  
File: 2ARBORFIELD

Cal Date: 11/17/04  
DOS File: 2ARBORFIELD

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 91.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.5	-1.1	14.6
3	WRAL	12.3	-2.5	14.8
4	LOCL	12.4	-1.8	14.2
5	WGHP	12.7	-0.8	13.5
6	WUNC	12.6	-0.5	13.1
7	WRPX	11.5	-2.5	14.0
8	WUVC	12.1	-3.3	15.4
9	WNCN	10.8	-3.0	13.8
10	WRDC	11.1	-1.6	12.7
11	WRAZ	11.6	-3.4	15.0
12	WLFL	11.2	-0.9	12.1
13	WTVB	12.1	-1.5	13.6
14	NC14	12.5	-0.8	13.3
15	HSN	11.3	-2.0	13.3
16	QVC	11.4	-1.0	12.4
17		11.6	-3.3	14.9
18	CSPN	12.4	-0.9	13.3
19	WRAY	11.9	-2.8	14.7
20	TWI1	11.2	-3.5	14.7
21	WGN	11.9	-1.0	12.9
22	BET	11.3	-2.3	13.6
24	TRI	10.8	-2.3	13.1
25	USA	10.9	-1.4	12.3
26	TNT	11.2	-1.4	12.6
27	A+E	11.7	-1.4	13.1
28	FFAM	11.8	-1.4	13.2
29	CNN	11.5	-1.8	13.3
30	DISC	11.5	-2.6	14.1
31	ESPN	11.8	-1.4	13.2
32	ESP2	11.9	-1.2	13.1
33	LIFE	11.6	-2.0	13.6
34	HSN	11.1	-2.6	13.7
35	QVC	12.1	-1.5	13.6
36	COM	12.1	-1.2	13.3
37	CNBC	12.4	-1.0	13.4
38	AMC	12.1	-0.6	12.7
39	TLC	12.3	-0.7	13.0
40	TNN	12.1	-2.0	14.1
41	HLN	12.9	-0.9	13.8
42	TWC	12.4	-1.6	14.0
43	NICK	13.2	-1.1	14.3
44	CORT	12.9	-0.4	13.3
45	MSN	12.6	-1.5	14.1
46	APL	12.1	-1.6	13.7
47	CNSI	13.2	-2.2	15.4
48	VH1	12.7	-2.7	15.4
49	SIFI	12.8	-1.8	14.6
50	FSN	12.5	-1.8	14.3
51	GOLF	12.0	-1.4	13.4



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/28/05 Time: 12:07:22  
Description:

Serial #: 5513748  
File: 2ARBORFIELD

Cal Date: 11/17/04  
DOS File: 2ARBORFIELD

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	12.6	-1.5	14.1
54	TVLN	12.8	-1.7	14.5
55	OXY	12.2	-1.4	13.6
56	HIST	12.7	-1.1	13.8
57	DISN	12.5	-0.1	12.6
58	FOXN	13.1	-0.7	13.8
60	CSP2	12.4	-0.6	13.0
61	WET	11.9	-1.4	13.3
62	E	11.4	-3.0	14.4
63	SOAP	12.0	-2.3	14.3
64	SNBC	12.1	-0.9	13.0
65	OLN	11.6	-1.5	13.1
66	ESPC	11.4	-1.8	13.2
67	TCM	11.5	-2.9	14.4
69	CMT	10.6	-4.0	14.6
70	NGEO	10.8	-3.0	13.8
71	FX	10.5	-3.6	14.1
72	ISPN	10.5	-4.3	14.8
73	HLMK	10.1	-3.1	13.2
74	TRAV	10.1	-4.4	14.5
75	TOON	10.1	-4.0	14.1
76	HGTV	9.9	-4.6	14.5
77	FOOD	10.0	-4.0	14.0
98	TVG	13.1	-0.4	13.5
116	TEST	13.8	0.1	13.7

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 76 Video = 9.9	Pass
Max Delta Video Level	14.5 dB	Ch 76 and 116, Delta = 3.9	Pass
Min Delta V/A	10.0 dB	Ch 12 Delta V/A = 12.1	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.4	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 8 and 9, Delta = 1.3	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/28/05 Time: 18:07:37  
Description:

Serial #: 5513748  
File: 3ARBORFIELD

Cal Date: 11/17/04  
DOS File: 3ARBORFIELD

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 91.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	12.6	-1.9	14.5
3	WRAL	12.9	-1.5	14.4
4	LOCL	12.4	-1.8	14.2
5	WGHP	12.3	-1.5	13.8
6	WUNC	11.8	-1.7	13.5
7	WRPX	11.6	-2.4	14.0
8	WUVC	11.5	-3.3	14.8
9	WNCN	10.8	-2.9	13.7
10	WRDC	11.3	-2.4	13.7
11	WRAZ	11.3	-3.9	15.2
12	WLFL	10.8	-2.7	13.5
13	WTVD	12.1	-1.2	13.3
14	NC14	10.9	-2.7	13.6
15	HSN	11.1	-3.3	14.4
16	QVC	11.0	-2.3	13.3
17		12.3	-1.0	13.3
18	CSPN	12.1	-1.9	14.0
19	WRAY	11.5	-2.4	13.9
20	TWI1	10.7	-2.7	13.4
21	WGN	11.7	-2.4	14.1
22	BET	11.7	-2.2	13.9
24	TRI	12.1	-1.8	13.9
25	USA	11.4	-2.2	13.6
26	TNT	11.7	-2.3	14.0
27	A+E	12.0	-1.1	13.1
28	FFAM	12.4	-1.6	14.0
29	CNN	11.4	-2.6	14.0
30	DISC	11.4	-2.6	14.0
31	ESPN	11.3	-2.7	14.0
32	ESP2	11.2	-2.5	13.7
33	LIFE	11.2	-2.7	13.9
34	HSN	11.1	-2.5	13.6
35	QVC	11.9	-2.6	14.5
36	COM	11.6	-2.1	13.7
37	CNBC	11.6	-1.7	13.3
38	AMC	11.4	-1.9	13.3
39	TLC	12.4	-1.4	13.8
40	TNN	12.0	-1.5	13.5
41	HLN	12.1	-2.2	14.3
42	TWC	12.6	-1.4	14.0
43	NICK	12.2	-1.7	13.9
44	CORT	12.2	-1.9	14.1
45	MSN	12.5	-1.5	14.0
46	APL	13.0	-1.1	14.1
47	CNSI	12.2	-1.8	14.0
48	VH1	11.5	-2.6	14.1
49	SIFI	12.1	-1.6	13.7
50	FSN	12.1	-1.4	13.5
51	GOLF	11.8	-1.8	13.6



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708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/28/05 Time: 18:07:37  
Description:

Serial #: 5513748  
File: 3ARBORFIELD

Cal Date: 11/17/04  
DOS File: 3ARBORFIELD

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	11.9	-1.8	13.7
54	TVLN	12.4	-1.1	13.5
55	OXY	12.0	-1.5	13.5
56	HIST	12.4	-1.5	13.9
57	DISN	12.4	-1.5	13.9
58	FOXN	12.4	-1.5	13.9
60	CSP2	12.1	-1.6	13.7
61	WET	11.9	-2.0	13.9
62	E	12.3	-2.5	14.8
63	SOAP	12.5	-1.8	14.3
64	SNBC	11.4	-3.1	14.5
65	OLN	12.2	-0.6	12.8
66	ESPC	11.9	-1.0	12.9
67	TCM	12.2	-2.1	14.3
69	CMT	11.1	-3.4	14.5
70	NGEO	11.2	-2.7	13.9
71	FX	11.0	-3.1	14.1
72	ISPN	10.9	-3.8	14.7
73	HLMK	10.5	-2.7	13.2
74	TRAV	10.6	-3.7	14.3
75	TOON	10.7	-3.3	14.0
76	HGTV	10.6	-4.0	14.6
77	FOOD	10.5	-3.5	14.0
98	TVG	13.9	0.1	13.8
116	TEST	14.2	0.0	14.2

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 73 Video = 10.5	Pass
Max Delta Video Level	14.5 dB	Ch 73 and 116, Delta = 3.7	Pass
Min Delta V/A	10.0 dB	Ch 65 Delta V/A = 12.8	Pass
Max Delta V/A	17.0 dB	Ch 11 Delta V/A = 15.2	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.3	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/29/05 Time: 00:06:20  
Description:

Serial #: 5513748  
File: 4ARBORFIELD

Cal Date: 11/17/04  
DOS File: 4ARBORFIELD

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 80.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	12.1	-2.1	14.2
3	WRAL	12.4	-1.8	14.2
4	LOCL	11.8	-2.1	13.9
5	WGHP	11.8	-1.9	13.7
6	WUNC	11.5	-2.1	13.6
7	WRPX	11.3	-2.9	14.2
8	WUVC	11.1	-3.7	14.8
9	WNCN	10.5	-3.3	13.8
10	WRDC	10.9	-2.7	13.6
11	WRAZ	11.0	-4.3	15.3
12	WLFL	10.6	-3.0	13.6
13	WTVD	11.7	-1.8	13.5
14	NC14	10.6	-3.0	13.6
15	HSN	10.8	-3.6	14.4
16	QVC	10.6	-2.5	13.1
17		12.1	-3.6	15.7
18	CSPN	11.7	-2.3	14.0
19	WRAY	11.1	-2.8	13.9
20	TWI1	10.4	-3.0	13.4
21	WGN	11.6	-2.7	14.3
22	BET	11.4	-2.4	13.8
24	TRI	11.7	-2.2	13.9
25	USA	10.9	-2.7	13.6
26	TNT	11.3	-2.7	14.0
27	A+E	11.7	-1.4	13.1
28	FFAM	11.9	-2.0	13.9
29	CNN	11.0	-3.0	14.0
30	DISC	10.9	-3.0	13.9
31	ESPN	11.0	-3.1	14.1
32	ESP2	10.9	-2.8	13.7
33	LIFE	10.8	-3.2	14.0
34	HSN	10.8	-2.9	13.7
35	QVC	11.5	-3.0	14.5
36	COM	11.1	-2.4	13.5
37	CNBC	11.3	-2.4	13.7
38	AMC	11.1	-2.6	13.7
39	TLC	11.9	-1.8	13.7
40	TNN	11.6	-1.9	13.5
41	HLN	11.7	-2.7	14.4
42	TWC	12.1	-2.2	14.3
43	NICK	11.8	-2.4	14.2
44	CORT	11.8	-2.4	14.2
45	MSN	12.1	-1.9	14.0
46	APL	12.6	-1.6	14.2
47	CNSI	11.7	-2.4	14.1
48	VH1	11.0	-3.1	14.1
49	SIFI	11.6	-2.0	13.6
50	FSN	11.8	-1.7	13.5
51	GOLF	12.2	-1.4	13.6



Durham/Chapel Hill  
708 East club Blvd.  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: E\_BLAKE  
Date: 07/29/05 Time: 00:06:20  
Description:

Serial #: 5513748  
File: 4ARBORFIELD

Cal Date: 11/17/04  
DOS File: 4ARBORFIELD

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	12.6	-1.4	14.0
54	TVLN	12.9	-1.5	14.4
55	OXY	12.5	-1.1	13.6
56	HIST	12.9	-1.0	13.9
57	DISN	12.3	-0.4	12.7
58	FOXN	12.8	-1.1	13.9
60	CSP2	12.4	-0.2	12.6
61	WET	12.2	-1.1	13.3
62	E	11.7	-3.0	14.7
63	SOAP	11.9	-2.3	14.2
64	SNBC	11.7	-1.3	13.0
65	OLN	11.6	-1.3	12.9
66	ESPC	11.3	-1.7	13.0
67	TCM	11.6	-2.7	14.3
69	CMT	10.4	-4.1	14.5
70	NGEO	10.6	-3.3	13.9
71	FX	10.3	-3.8	14.1
72	ISPN	10.2	-4.5	14.7
73	HLMK	9.9	-3.3	13.2
74	TRAV	9.8	-4.5	14.3
75	TOON	10.0	-4.0	14.0
76	HGTV	9.9	-4.8	14.7
77	FOOD	9.9	-4.2	14.1
98	TVG	13.4	-0.2	13.6
116	TEST	13.9	-0.4	14.3

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 74 Video = 9.8	Pass
Max Delta Video Level	14.5 dB	Ch 74 and 116, Delta = 4.1	Pass
Min Delta V/A	10.0 dB	Ch 60 Delta V/A = 12.6	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 15.7	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.5	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_



## Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Dorham / Chapel Hill  
 Test Point Location: 800 Oak Grove Parkway  
 Date of Test: 7-25-05 Time: 06:02  
 Tech(s) Performing Test: Roben Sulgans

Highest Band Pass: 770 MHz  
 Test Point Number: 12  
 Temperature: 71  
 Date Begun: 7-25-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer FSM	<u>SDA-5000</u>	<u>6313666</u>	<u>N/A</u>

Test Setup used: A 30 meeter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.				
Date/Time				Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
	<u>7-28 06:02</u>	<u>7-28 12:01</u>	<u>7-28 18:00</u>	<u>7-29 00:01</u>

2. The Visual Carrier Level cannot vary more than 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).				
Maximum Video Carrier Level	<u>19.9</u>	<u>20</u>	<u>20</u>	<u>20</u>
Minimum Video Carrier Level	<u>13.8</u>	<u>13.6</u>	<u>13.8</u>	<u>12.8</u>
Variation Highest & Lowest Video Levels	<u>6.1</u>	<u>6.4</u>	<u>6.2</u>	<u>7.2</u>
Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth	<u>14.5</u>			
				Was the specification met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Justification for any variation in this requirement:				

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.	
Justification for any variation in this requirement:	
Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel!?:	
Justification for any variation greater than 3 dB:	
Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.	
Justification for any video level less then 3 dBmV:	
Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	

6. During this 24 hour test all video carrier level changes must be less then 8 dB	
Justification for any variation greater then 8 dB: _____	
Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.	
Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	
Justification for any variation greater then 8 dB: _____	

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/28/05 Time: 06:02:17  
Description:

Serial #: 8513335  
File: 1OAKGROVE

Cal Date: 09/20/04  
DOS File: 1OAKGROVE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 71.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.8	-0.4	14.2
3	WRAL	14.0	0.5	13.5
4	LOCL	14.7	0.4	14.3
5	WGHP	15.4	1.7	13.7
6	WUNC	15.1	1.6	13.5
7	WRPX	17.4	3.3	14.1
8	WUVC	17.5	2.8	14.7
9	WNCN	17.2	3.2	14.0
10	WRDC	17.2	3.8	13.4
11	WRAZ	17.3	2.5	14.8
12	WLFL	16.3	2.2	14.1
13	WTVD	17.7	4.0	13.7
14	NC14	15.4	1.7	13.7
15	HSN	16.0	1.0	15.0
16	QVC	15.7	2.3	13.4
17		17.2	2.1	15.1
18	CSPN	16.9	3.0	13.9
19	WRAY	16.5	2.7	13.8
20	TWI1	16.4	2.6	13.8
21	WGN	17.3	2.7	14.6
22	BET	17.2	3.4	13.8
24	TRI	18.0	4.1	13.9
25	USA	17.3	3.1	14.2
26	TNT	17.5	3.7	13.8
27	A+E	18.1	4.7	13.4
28	FFAM	18.5	4.4	14.1
29	CNN	17.7	3.7	14.0
30	DISC	16.8	3.1	13.7
31	ESPN	17.3	3.4	13.9
32	ESP2	17.7	3.5	14.2
33	LIFE	17.8	3.8	14.0
34	HSN	17.8	4.3	13.5
35	QVC	18.4	3.7	14.7
36	COM	18.2	4.3	13.9
37	CNBC	18.0	4.2	13.8
38	AMC	17.5	3.2	14.3
39	TLC	18.5	3.9	14.6
40	TNN	17.8	3.9	13.9
41	HLN	18.0	3.4	14.6
42	TWC	18.5	3.7	14.8
43	NICK	18.0	4.0	14.0
44	CORT	18.1	3.6	14.5
45	MSN	17.9	3.7	14.2
46	APL	18.3	4.4	13.9
47	CNSI	17.8	3.5	14.3
48	VH1	17.3	3.3	14.0
49	SIFI	17.5	3.9	13.6
50	FSN	18.0	4.2	13.8
51	GOLF	17.7	3.6	14.1

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/28/05 Time: 06:02:17  
Description:

Serial #: 8513335  
File: 1OAKGROVE

Cal Date: 09/20/04  
DOS File: 1OAKGROVE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	18.3	3.9	14.4
54	TVLN	18.0	4.9	13.1
55	OXY	18.3	4.8	13.5
56	HIST	18.9	4.7	14.2
57	DISN	19.1	5.2	13.9
58	FOXN	19.5	5.7	13.8
60	CSP2	19.6	5.5	14.1
61	WET	19.6	5.2	14.4
62	E	18.8	4.8	14.0
63	SOAP	19.5	4.9	14.6
64	SNBC	19.5	4.6	14.9
65	OLN	19.3	5.0	14.3
66	ESPC	19.6	5.2	14.4
67	TCM	19.7	4.9	14.8
69	CMT	19.6	4.6	15.0
70	NGEO	19.9	6.0	13.9
71	FX	19.8	5.3	14.5
72	ISPN	19.6	5.2	14.4
73	HLMK	19.5	5.7	13.8
74	TRAV	19.4	4.8	14.6
75	TOON	19.7	5.2	14.5
76	HGTV	19.0	4.2	14.8
77	FOOD	18.9	4.8	14.1
98	TVG	17.9	3.8	14.1
116	TEST	18.1	3.6	14.5

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 13.8	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 70, Delta = 6.1	Pass
Min Delta V/A	10.0 dB	Ch 54 Delta V/A = 13.1	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 15.1	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.5	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/28/05 Time: 12:01:29  
Description:

Serial #: 8513335  
File: 2OAKGROVE

Cal Date: 09/20/04  
DOS File: 2OAKGROVE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 88.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.6	-2.0	15.6
3	WRAL	14.4	0.3	14.1
4	LOCL	14.7	0.6	14.1
5	WGHP	15.4	1.8	13.6
6	WUNC	15.2	1.5	13.7
7	WRPX	17.4	3.5	13.9
8	WUVC	17.4	2.9	14.5
9	WNCN	17.1	3.1	14.0
10	WRDC	17.1	3.7	13.4
11	WRAZ	17.3	1.8	15.5
12	WLFL	16.4	2.2	14.2
13	WTVB	17.8	4.0	13.8
14	NC14	15.4	1.5	13.9
15	HSN	16.4	1.4	15.0
16	QVC	15.7	2.4	13.3
17		17.2	1.3	15.9
18	CSPN	16.8	2.9	13.9
19	WRAY	16.4	2.7	13.7
20	TWI1	16.3	2.6	13.7
21	WGN	17.1	2.5	14.6
22	BET	17.1	3.4	13.7
24	TRI	18.0	3.9	14.1
25	USA	17.2	3.3	13.9
26	TNT	17.4	3.6	13.8
27	A+E	18.0	4.7	13.3
28	FFAM	18.5	4.6	13.9
29	CNN	17.6	3.5	14.1
30	DISC	16.8	3.1	13.7
31	ESPN	17.1	3.2	13.9
32	ESP2	17.4	3.5	13.9
33	LIFE	17.6	3.9	13.7
34	HSN	17.5	4.1	13.4
35	QVC	18.3	3.7	14.6
36	COM	18.1	4.4	13.7
37	CNBC	17.7	4.3	13.4
38	AMC	17.3	3.2	14.1
39	TLC	18.4	3.8	14.6
40	TNN	17.6	4.0	13.6
41	HLN	17.9	3.4	14.5
42	TWC	18.4	3.8	14.6
43	NICK	17.9	4.0	13.9
44	CORT	18.2	3.7	14.5
45	MSN	17.9	3.6	14.3
46	APL	18.3	3.9	14.4
47	CNSI	17.8	3.3	14.5
48	VH1	17.3	3.3	14.0
49	SIFI	17.5	3.7	13.8
50	FSN	18.1	4.0	14.1
51	GOLF	17.7	3.7	14.0

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/28/05 Time: 12:01:29  
Description:

Serial #: 8513335  
File: 2OAKGROVE

Cal Date: 09/20/04  
DOS File: 2OAKGROVE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	18.2	3.8	14.4
54	TVLN	18.0	5.0	13.0
55	OXY	18.2	4.8	13.4
56	HIST	19.3	4.8	14.5
57	DISN	19.2	5.3	13.9
58	FOXN	19.5	5.7	13.8
60	CSP2	19.7	5.7	14.0
61	WET	19.6	5.2	14.4
62	E	18.9	4.9	14.0
63	SOAP	19.6	4.8	14.8
64	SNBC	19.5	4.6	14.9
65	OLN	19.4	5.1	14.3
66	ESPC	19.6	5.2	14.4
67	TCM	19.8	5.0	14.8
69	CMT	19.6	4.6	15.0
70	NGEO	20.0	6.1	13.9
71	FX	19.8	5.4	14.4
72	ISPN	19.6	5.0	14.6
73	HLMK	19.6	5.7	13.9
74	TRAV	19.6	5.0	14.6
75	TOON	20.0	5.1	14.9
76	HGTV	19.1	4.2	14.9
77	FOOD	18.7	4.6	14.1
98	TVG	17.9	3.9	14.0
116	TEST	18.2	3.6	14.6

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 13.6	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 70, Delta = 6.4	Pass
Min Delta V/A	10.0 dB	Ch 54 Delta V/A = 13.0	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 15.9	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.5	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/28/05 Time: 18:00:30  
Description:

Serial #: 8513335  
File: 3OAKGROVE

Cal Date: 09/20/04  
DOS File: 3OAKGROVE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 91.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.8	-0.4	14.2
3	WRAL	14.6	0.3	14.3
4	LOCL	14.6	0.3	14.3
5	WGHP	15.3	1.7	13.6
6	WUNC	15.1	1.4	13.7
7	WRPX	17.4	3.3	14.1
8	WUVC	17.7	2.9	14.8
9	WNCN	17.2	3.3	13.9
10	WRDC	17.3	3.7	13.6
11	WRAZ	17.2	2.4	14.8
12	WLFL	16.5	2.3	14.2
13	WTVD	17.9	4.0	13.9
14	NC14	15.6	1.5	14.1
15	HSN	16.3	1.5	14.8
16	QVC	15.8	2.4	13.4
17		17.4	1.4	16.0
18	CSPN	16.9	2.9	14.0
19	WRAY	16.5	2.8	13.7
20	TWI1	16.3	2.6	13.7
21	WGN	16.9	2.5	14.4
22	BET	17.1	3.5	13.6
24	TRI	17.9	4.0	13.9
25	USA	17.2	3.1	14.1
26	TNT	17.5	3.7	13.8
27	A+E	18.2	4.8	13.4
28	FFAM	18.6	4.6	14.0
29	CNN	17.5	3.7	13.8
30	DISC	16.9	3.3	13.6
31	ESPN	17.2	3.3	13.9
32	ESP2	17.5	3.7	13.8
33	LIFE	17.9	3.9	14.0
34	HSN	17.8	4.3	13.5
35	QVC	18.2	3.8	14.4
36	COM	18.2	4.3	13.9
37	CNBC	17.8	4.4	13.4
38	AMC	17.6	3.3	14.3
39	TLC	18.6	4.0	14.6
40	TNN	17.6	4.0	13.6
41	HLN	17.9	3.5	14.4
42	TWC	18.4	3.7	14.7
43	NICK	18.0	3.9	14.1
44	CORT	18.2	3.9	14.3
45	MSN	17.9	3.6	14.3
46	APL	18.4	4.2	14.2
47	CNSI	17.8	3.7	14.1
48	VH1	17.3	3.4	13.9
49	SIFI	17.6	4.0	13.6
50	FSN	18.1	4.0	14.1
51	GOLF	17.8	3.4	14.4

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/28/05 Time: 18:00:30  
Description:

Serial #: 8513335  
File: 3OAKGROVE

Cal Date: 09/20/04  
DOS File: 3OAKGROVE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	18.3	3.8	14.5
54	TVLN	18.0	5.1	12.9
55	OXY	18.2	4.8	13.4
56	HIST	19.0	4.7	14.3
57	DISN	19.3	5.3	14.0
58	FOXN	19.5	5.7	13.8
60	CSP2	19.7	5.8	13.9
61	WET	19.5	5.3	14.2
62	E	18.9	4.9	14.0
63	SOAP	19.4	5.0	14.4
64	SNBC	19.5	4.9	14.6
65	OLN	19.4	5.2	14.2
66	ESPC	19.5	5.3	14.2
67	TCM	19.7	5.0	14.7
69	CMT	19.8	4.8	15.0
70	NGEO	20.0	6.1	13.9
71	FX	19.9	5.3	14.6
72	ISPN	19.8	5.1	14.7
73	HLMK	19.5	5.9	13.6
74	TRAV	19.6	5.1	14.5
75	TOON	19.8	5.1	14.7
76	HGTV	19.2	4.2	15.0
77	FOOD	18.7	4.7	14.0
98	TVG	17.8	3.8	14.0
116	TEST	18.1	3.6	14.5

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 13.8	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 70, Delta = 6.2	Pass
Min Delta V/A	10.0 dB	Ch 54 Delta V/A = 12.9	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 16.0	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.6	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/29/05 Time: 00:01:38  
Description:

Serial #: 8513335  
File: 4OAKGROVE

Cal Date: 09/20/04  
DOS File: 4OAKGROVE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 75.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	12.8	-1.6	14.4
3	WRAL	14.4	0.4	14.0
4	LOCL	14.5	0.1	14.4
5	WGHP	15.2	1.5	13.7
6	WUNC	14.9	1.3	13.6
7	WRPX	17.4	3.5	13.9
8	WUVC	17.9	3.2	14.7
9	WNCN	17.1	3.1	14.0
10	WRDC	17.3	3.8	13.5
11	WRAZ	17.3	2.0	15.3
12	WLFL	16.4	2.2	14.2
13	WTVD	17.8	4.0	13.8
14	NC14	15.4	1.4	14.0
15	HSN	16.2	1.3	14.9
16	QVC	15.6	2.2	13.4
17		17.3	1.6	15.7
18	CSPN	16.9	2.9	14.0
19	WRAY	16.5	2.8	13.7
20	TWI1	16.3	2.6	13.7
21	WGN	17.3	2.7	14.6
22	BET	17.3	3.5	13.8
24	TRI	17.9	3.8	14.1
25	USA	17.3	3.1	14.2
26	TNT	17.4	3.7	13.7
27	A+E	18.1	5.0	13.1
28	FFAM	18.6	4.7	13.9
29	CNN	17.7	3.5	14.2
30	DISC	16.8	3.3	13.5
31	ESPN	17.4	3.3	14.1
32	ESP2	17.5	3.5	14.0
33	LIFE	17.9	3.7	14.2
34	HSN	17.6	4.3	13.3
35	QVC	18.3	3.7	14.6
36	COM	18.2	4.6	13.6
37	CNBC	17.8	4.3	13.5
38	AMC	17.6	3.4	14.2
39	TLC	18.6	4.1	14.5
40	TNN	17.6	3.9	13.7
41	HLN	17.9	3.5	14.4
42	TWC	18.3	3.8	14.5
43	NICK	18.1	3.9	14.2
44	CORT	18.2	3.8	14.4
45	MSN	18.0	3.8	14.2
46	APL	18.6	4.4	14.2
47	CNSI	17.9	3.6	14.3
48	VH1	17.5	3.4	14.1
49	SIFI	17.6	4.0	13.6
50	FSN	18.1	4.1	14.0
51	GOLF	17.8	3.7	14.1





Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Durham, North Carolina  
Channel line up

Model: SDA-5000  
Operator: R^SULYENS  
Date: 07/29/05 Time: 00:01:38  
Description:

Serial #: 8513335  
File: 4OAKGROVE

Cal Date: 09/20/04  
DOS File: 4OAKGROVE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	18.4	4.0	14.4
54	TVLN	18.0	5.0	13.0
55	OXY	18.4	4.9	13.5
56	HIST	19.4	5.0	14.1
57	DISN	19.2	5.2	14.0
58	FOXN	19.4	5.7	13.7
60	CSP2	19.6	5.7	13.9
61	WET	19.5	5.3	14.2
62	E	19.0	5.1	13.9
63	SOAP	19.5	4.8	14.7
64	SNBC	19.5	4.8	14.7
65	OLN	19.3	5.1	14.2
66	ESPC	19.4	5.2	14.2
67	TCM	19.7	5.1	14.6
69	CMT	19.5	4.7	14.8
70	NGEO	20.0	5.8	14.2
71	FX	19.4	5.6	13.8
72	ISPN	19.5	4.7	14.8
73	HLMK	19.4	5.5	13.9
74	TRAV	19.3	4.8	14.5
75	TOON	19.8	4.9	14.9
76	HGTV	19.1	4.0	15.1
77	FOOD	18.6	4.7	13.9
98	TVG	17.8	3.7	14.1
116	TEST	18.2	3.6	14.6

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 2 Video = 12.8	Pass
Max Delta Video Level	14.5 dB	Ch 2 and 70, Delta = 7.2	Pass
Min Delta V/A	10.0 dB	Ch 54 Delta V/A = 13.0	Pass
Max Delta V/A	17.0 dB	Ch 17 Delta V/A = 15.7	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 16 and 17, Delta = 1.7	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

## Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham / Chapel Hill  
 Test Point Location: Adirondack  
 Date of Test: 7-28-05 Time: 06:04  
 Tech(s) Performing Test: Jon Wooding

Highest Band Pass: 770 MHz  
 Test Point Number: 13  
 Temperature: 77  
 Date Begun: 7-28-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer FSM	<u>SDA 5000</u>	<u>2381234</u>	<u>N/A</u>

Test Setup used: A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.				
Date/Time				Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
	<u>7-28 06:04</u>	<u>7-28 12:04</u>	<u>7-28 17:30</u>	<u>7-28 23:29</u>

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).				
Maximum Video Carrier Level	<u>17.9</u>	<u>17.3</u>	<u>16.1</u>	<u>17.9</u>
Minimum Video Carrier Level	<u>8.6</u>	<u>8.0</u>	<u>6.3</u>	<u>9.4</u>
Variation Highest & Lowest Video Levels	<u>9.3</u>	<u>9.3</u>	<u>9.8</u>	<u>8.5</u>
Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth	<u>14.5</u>	Was the specification met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>		
Justification for any variation in this requirement:				

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.	
Justification for any variation in this requirement:	
Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?	
Justification for any variation greater than 3 dB:	
Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.	
Justification for any video level less then 3 dBmV:	
Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	

6. During this 24 hour test all video carrier level changes must be less then 8 dB	
Justification for any variation greater then 8 dB: _____	
Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.	
Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>	
Justification for any variation greater then 8 dB: _____	

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 06:04:22  
Description:

Serial #: 2381234  
File: 1\_ADIRONDAK

Cal Date: 12/10/04  
DOS File: 1\_ADIRONDAK

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 77.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	17.4	3.7	13.7
3	WRAL	16.9	1.5	15.4
4	LOCL	17.9	4.0	13.9
5	WGHP	17.3	0.7	16.6
6	WUNC	15.9	2.7	13.2
7	WRPX	15.0	0.9	14.1
8	WUVC	16.0	0.4	15.6
9	WNCN	15.2	1.6	13.6
10	WRDC	15.6	2.3	13.3
11	WRAZ	15.4	-0.2	15.6
12	WLFL	14.3	1.0	13.3
13	WTVD	14.6	0.9	13.7
14	NC14	16.2	2.5	13.7
15	HSN	15.6	1.9	13.7
16	QVC	15.4	2.1	13.3
17		15.2	0.9	14.3
18	GOVT	15.4	2.2	13.2
19	WRAY	15.4	0.7	14.7
20	TWI1	15.3	0.2	15.1
21	WGN	15.0	1.5	13.5
22	BET	14.7	1.2	13.5
24	TRI	14.5	1.1	13.4
25	USA	14.7	1.5	13.2
26	TNT	14.1	0.7	13.4
27	A+E	14.0	0.4	13.6
28	FFAM	14.1	0.6	13.5
29	CNN	13.7	0.2	13.5
30	DISC	13.5	-0.9	14.4
31	ESPN	13.5	-0.1	13.6
32	ESP2	13.3	-0.1	13.4
33	LIFE	13.1	-0.6	13.7
34	HSN	12.6	-1.4	14.0
35	QVC	12.9	-0.6	13.5
36	COM	13.0	-1.1	14.1
37	CNBC	12.5	-1.0	13.5
38	AMC	12.3	-0.6	12.9
39	TLC	12.4	-0.6	13.0
40	TNN	12.4	-2.2	14.6
41	HLN	12.8	-1.7	14.5
42	TWC	11.6	-2.7	14.3
43	NICK	11.9	-2.6	14.5
44	CORT	11.8	-1.5	13.3
45	MSN	11.5	-2.7	14.2
46	APL	11.0	-3.1	14.1
47	CNSI	12.0	-4.0	16.0
48	VH1	11.3	-3.6	14.9
49	SIFI	11.4	-3.0	14.4
50	FSN	11.7	-3.0	14.7
51	GOLF	11.2	-2.4	13.6



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 06:04:22  
Description:

Serial #: 2381234  
File: 1\_ADIRONDAK

Cal Date: 12/10/04  
DOS File: 1\_ADIRONDAK

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	11.9	-1.9	13.8
54	TVLN	12.7	-1.3	14.0
55	OXY	12.6	-1.5	14.1
56	HIST	12.9	-1.1	14.0
57	DISN	12.6	-0.9	13.5
58	FOXN	12.8	-1.5	14.3
59	CSPN	11.7	-1.0	12.7
60	CSP2	12.3	-1.2	13.5
61	WET	12.3	-1.2	13.5
62	E	11.4	-3.1	14.5
63	SOAP	11.9	-3.0	14.9
64	SNBC	11.5	-1.7	13.2
65	OLN	11.3	-1.6	12.9
66	ESPC	11.2	-2.0	13.2
67	TCM	11.5	-3.1	14.6
69	CMT	10.6	-4.2	14.8
70	NGEO	10.6	-3.3	13.9
71	FX	10.6	-3.9	14.5
72	ISPN	9.7	-4.8	14.5
73	HLMK	10.0	-3.7	13.7
74	TRAV	9.7	-5.3	15.0
75	TOON	9.4	-4.9	14.3
76	HGTV	9.1	-5.9	15.0
77	FOOD	8.6	-5.8	14.4
98	TVG	17.1	4.3	12.8
116	TEST	10.3	-4.7	15.0

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 77 Video = 8.6	Pass
Max Delta Video Level	14.5 dB	Ch 4 and 77, Delta = 9.3	Pass
Min Delta V/A	10.0 dB	Ch 59 Delta V/A = 12.7	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.6	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 5 and 6, Delta = 1.4	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 12:04:17  
Description:

Serial #: 2381234  
File: 2\_ADIRONDACK

Cal Date: 12/10/04  
DOS File: 2\_ADIRONDACK

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 84.9 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	16.5	3.0	13.5
3	WRAL	16.0	0.7	15.3
4	LOCL	17.3	3.2	14.1
5	WGHP	16.3	2.6	13.7
6	WUNC	15.1	2.0	13.1
7	WRPX	14.6	0.4	14.2
8	WUVC	15.6	-0.3	15.9
9	WNCN	14.7	1.1	13.6
10	WRDC	15.3	1.8	13.5
11	WRAZ	15.2	-0.6	15.8
12	WLFL	13.9	1.0	12.9
13	WTVD	14.2	0.5	13.7
14	NC14	15.6	2.1	13.5
15	HSN	14.8	1.0	13.8
16	QVC	14.9	1.7	13.2
17		14.6	-1.4	16.0
18	GOVT	14.8	1.8	13.0
19	WRAY	14.9	0.1	14.8
20	TWI1	14.6	-0.6	15.2
21	WGN	14.6	1.2	13.4
22	BET	14.5	0.7	13.8
24	TRI	13.9	0.5	13.4
25	USA	14.2	0.9	13.3
26	TNT	13.7	0.2	13.5
27	A+E	13.6	0.2	13.4
28	FFAM	13.7	0.3	13.4
29	CNN	13.4	-0.2	13.6
30	DISC	13.0	-1.3	14.3
31	ESPN	13.3	-0.2	13.5
32	ESP2	12.9	-0.5	13.4
33	LIFE	12.7	-0.8	13.5
34	HSN	12.1	-2.0	14.1
35	QVC	12.6	-0.7	13.3
36	COM	12.6	-1.5	14.1
37	CNBC	12.3	-1.3	13.6
38	AMC	11.9	-0.6	12.5
39	TLC	12.4	-0.6	13.0
40	TNN	12.1	-2.3	14.4
41	HLN	12.6	-1.7	14.3
42	TWC	11.6	-3.2	14.8
43	NICK	11.6	-2.9	14.5
44	CORT	11.6	-1.9	13.5
45	MSN	11.4	-2.6	14.0
46	APL	11.0	-3.3	14.3
47	CNSI	11.8	-4.3	16.1
48	VH1	11.1	-3.9	15.0
49	SIFI	11.1	-3.2	14.3
50	FSN	11.3	-3.1	14.4
51	GOLF	10.9	-2.5	13.4



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 12:04:17  
Description:

Serial #: 2381234  
File: 2\_ADIRONDACK

Cal Date: 12/10/04  
DOS File: 2\_ADIRONDACK

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	11.8	-2.1	13.9
54	TVLN	12.3	-1.6	13.9
55	OXY	12.5	-1.8	14.3
56	HIST	12.7	-1.4	14.1
57	DISN	12.3	-1.1	13.4
58	FOXN	12.5	-1.7	14.2
59	CSPN	11.6	-1.5	13.1
60	CSP2	12.2	-1.8	14.0
61	WET	11.7	-1.5	13.2
62	E	11.1	-3.3	14.4
63	SOAP	11.5	-3.3	14.8
64	SNBC	11.2	-1.9	13.1
65	OLN	11.0	-2.1	13.1
66	ESPC	10.8	-2.5	13.3
67	TCM	10.9	-3.1	14.0
69	CMT	10.4	-4.4	14.8
70	NGEO	10.4	-3.5	13.9
71	FX	10.3	-4.3	14.6
72	ISPN	9.2	-4.9	14.1
73	HLMK	9.8	-3.8	13.6
74	TRAV	9.1	-5.6	14.7
75	TOON	9.2	-5.4	14.6
76	HGTV	8.6	-6.2	14.8
77	FOOD	8.0	-6.1	14.1
98	TVG	16.4	3.9	12.5
116	TEST	9.4	-5.5	14.9

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 77 Video = 8.0	Pass
Max Delta Video Level	14.5 dB	Ch 4 and 77, Delta = 9.3	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.5	Pass
Max Delta V/A	17.0 dB	Ch 47 Delta V/A = 16.1	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 1.3	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 17:30:56  
Description:

Serial #: 2381234  
File: 3\_ADIRONDAK

Cal Date: 12/10/04  
DOS File: 3\_ADIRONDAK

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 91.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	14.3	0.8	13.5
3	WRAL	14.8	-0.2	15.0
4	LOCL	16.1	2.0	14.1
5	WGHP	13.8	0.3	13.5
6	WUNC	13.2	-0.4	13.6
7	WRPX	13.3	-0.6	13.9
8	WUVC	14.4	-1.6	16.0
9	WNCN	12.9	-1.0	13.9
10	WRDC	12.9	-1.1	14.0
11	WRAZ	12.9	-3.0	15.9
12	WLFL	11.5	-2.2	13.7
13	WTVD	13.0	-0.5	13.5
14	NC14	12.7	-1.5	14.2
15	HSN	13.0	-2.2	15.2
16	QVC	12.6	-1.2	13.8
17		13.6	-2.0	15.6
18	GOVT	14.9	0.8	14.1
19	WRAY	12.8	-1.6	14.4
20	TWI1	12.0	-1.8	13.8
21	WGN	12.3	-1.9	14.2
22	BET	13.3	-0.3	13.6
24	TRI	12.6	-1.4	14.0
25	USA	11.9	-2.2	14.1
26	TNT	12.4	-2.0	14.4
27	A+E	12.4	-1.0	13.4
28	FFAM	12.4	-1.9	14.3
29	CNN	11.0	-3.3	14.3
30	DISC	10.1	-3.7	13.8
31	ESPN	10.4	-3.7	14.1
32	ESP2	10.4	-3.6	14.0
33	LIFE	10.0	-3.7	13.7
34	HSN	9.9	-4.1	14.0
35	QVC	9.8	-4.1	13.9
36	COM	9.9	-4.0	13.9
37	CNBC	9.6	-3.8	13.4
38	AMC	9.3	-4.5	13.8
39	TLC	10.2	-3.9	14.1
40	TNN	9.4	-4.3	13.7
41	HLN	9.3	-5.4	14.7
42	TWC	9.9	-4.4	14.3
43	NICK	9.3	-5.5	14.8
44	CORT	8.8	-5.7	14.5
45	MSN	8.8	-5.3	14.1
46	APL	9.4	-4.8	14.2
47	CNSI	8.8	-5.6	14.4
48	VH1	7.8	-6.2	14.0
49	SFI	8.2	-5.4	13.6
50	FSN	8.6	-5.1	13.7
51	GOLF	8.6	-5.4	14.0



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 17:30:56  
Description:

Serial #: 2381234  
File: 3\_ADIRONDAK

Cal Date: 12/10/04  
DOS File: 3\_ADIRONDAK

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	9.2	-4.8	14.0
54	TVLN	9.7	-3.5	13.2
55	OXY	9.8	-4.3	14.1
56	HIST	10.0 <sup>^</sup>	-4.2	14.2
57	DISN	10.1	-4.3	14.4
58	FOXN	9.8	-4.6	14.4
59	CSPN	9.8	-3.7	13.5
60	CSP2	9.5	-5.3	14.8
61	WET	9.4	-4.9	14.3
62	E	8.2	-5.5	13.7
63	SOAP	8.8	-6.2	15.0
64	SNBC	8.6	-5.8	14.4
65	OLN	8.5	-5.8	14.3
66	ESPC	8.5	-5.9	14.4
67	TCM	8.3	-6.1	14.4
69	CMT	8.4	-6.3	14.7
70	NGEO	8.7	-5.4	14.1
71	FX	8.1	-6.2	14.3
72	ISPN	7.1	-7.4	14.5
73	HLMK	8.0	-6.0	14.0
74	TRAV	7.1	-7.5	14.6
75	TOON	7.3	-7.5	14.8
76	HGTV	6.5	-7.8	14.3
77	FOOD	6.3	-7.8	14.1
98	TVG	15.3	2.6	12.7
116	TEST	7.0	-7.7	14.7

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 77 Video = 6.3	Pass
Max Delta Video Level	14.5 dB	Ch 4 and 77, Delta = 9.8	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.7	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.0	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 18 and 19, Delta = 2.1	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_





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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 23:29:31  
Description:

Serial #: 2381234  
File: 4\_ADIRONDAK

Cal Date: 12/10/04  
DOS File: 4\_ADIRONDAK

Location: ?	AmpID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 71.1 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	16.1	2.3	13.8
3	WRAL	16.9	1.6	15.3
4	LOCL	17.9	3.8	14.1
5	WGHP	15.9	1.6	14.3
6	WUNC	15.3	1.6	13.7
7	WRPX	15.9	1.5	14.4
8	WUVC	16.7	0.8	15.9
9	WNCN	15.0	1.0	14.0
10	WRDC	15.3	1.2	14.1
11	WRAZ	14.9	-0.8	15.7
12	WLFL	14.1	-0.1	14.2
13	WTVD	15.1	1.8	13.3
14	NC14	14.8	0.5	14.3
15	HSN	14.8	0.0	14.8
16	QVC	14.5	0.9	13.6
17		15.7	2.1	13.6
18	GOVT	17.5	3.5	14.0
19	WRAY	14.9	0.8	14.1
20	TWI1	14.4	0.6	13.8
21	WGN	14.5	0.2	14.3
22	BET	15.4	1.7	13.7
24	TRI	15.1	1.0	14.1
25	USA	14.3	0.4	13.9
26	TNT	14.8	0.3	14.5
27	A+E	14.8	1.4	13.4
28	FFAM	14.9	0.5	14.4
29	CNN	13.7	-0.7	14.4
30	DISC	12.8	-1.4	14.2
31	ESPN	13.0	-1.0	14.0
32	ESP2	13.2	-0.9	14.1
33	LIFE	13.0	-1.3	14.3
34	HSN	12.7	-1.5	14.2
35	QVC	12.9	-1.3	14.2
36	COM	12.5	-1.4	13.9
37	CNBC	12.6	-1.2	13.8
38	AMC	12.0	-1.9	13.9
39	TLC	12.9	-1.3	14.2
40	TNN	12.2	-1.7	13.9
41	HLN	11.7	-2.6	14.3
42	TWC	12.7	-1.9	14.6
43	NICK	11.6	-2.8	14.4
44	CORT	11.2	-3.1	14.3
45	MSN	11.5	-2.6	14.1
46	APL	11.7	-2.2	13.9
47	CNSI	11.3	-3.0	14.3
48	VH1	10.7	-3.5	14.2
49	SIFI	10.8	-2.8	13.6
50	FSN	11.5	-2.5	14.0
51	GOLF	10.8	-2.7	13.5



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: J^WOODING  
Date: 07/28/05 Time: 23:29:31  
Description:

Serial #: 2381234  
File: 4\_ADIRONDAK

Cal Date: 12/10/04  
DOS File: 4\_ADIRONDAK

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	11.7	-2.3	14.0
54	TVLN	12.3	-1.0	13.3
55	OXY	12.6	-1.6	14.2
56	HIST	12.5	-1.5	14.0
57	DISN	13.1	-1.5	14.6
58	FOXN	12.7	-1.7	14.4
59	CSPN	13.0	-0.8	13.8
60	CSP2	12.4	-2.5	14.9
61	WET	12.2	-1.7	13.9
62	E	11.3	-2.5	13.8
63	SOAP	11.7	-3.5	15.2
64	SNBC	11.6	-3.0	14.6
65	OLN	11.4	-3.1	14.5
66	ESPC	11.6	-3.1	14.7
67	TCM	11.4	-3.2	14.6
69	CMT	11.3	-3.5	14.8
70	NGEO	11.7	-2.2	13.9
71	FX	11.4	-2.8	14.2
72	ISPN	10.9	-3.7	14.6
73	HLMK	10.9	-2.9	13.8
74	TRAV	10.6	-4.5	15.1
75	TOON	10.4	-4.1	14.5
76	HGTV	9.7	-5.2	14.9
77	FOOD	9.4	-5.1	14.5
98	TVG	17.6	4.9	12.7
116	TEST	10.5	-4.3	14.8

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 77 Video = 9.4	Pass
Max Delta Video Level	14.5 dB	Ch 4 and 77, Delta = 8.5	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.7	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 15.9	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 18 and 19, Delta = 2.6	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

### Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham / Chapel Hill  
 Test Point Location: W Barber Chapel  
 Date of Test: 7-28-05 Time: 00:06  
 Tech(s) Performing Test: Igor Papo

Highest Band Pass: 710 MHz  
 Test Point Number: 14  
 Temperature: 77°  
 Date Begun: 7-28-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer			
FSM	<u>SDA 5000</u>	<u>8513315</u>	<u>N/A</u>

Test Setup used: A 30 meeter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

Minimum Specifications: The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.				
				Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Date/Time	<u>7-28/00:06</u>	<u>7-28/06:11</u>	<u>7-28/12:03</u>	<u>7-28/17:34</u>

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).				
Maximum Video Carrier Level	<u>20.9</u>	<u>20.9</u>	<u>20.3</u>	<u>20.9</u>
Minimum Video Carrier Level	<u>10.2</u>	<u>11.1</u>	<u>10.1</u>	<u>10.1</u>
Variation Highest & Lowest Video Levels	<u>10.7</u>	<u>9.5</u>	<u>10.2</u>	<u>10.8</u>
Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth	<u>14.5</u>	Was the specification met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>		
Justification for any variation in this requirement:				

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.	
	Was the Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Justification for any variation in this requirement:	

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?:	
	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Justification for any variation greater than 3 dB:	

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.	
	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Justification for any video level less then 3 dBmV:	

6. During this 24 hour test all video carrier level changes must be less then 8 dB	
	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Justification for any variation greater then 8 dB: _____	
Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.	
	Was this Specification Met? Yes <input checked="" type="checkbox"/> , No <input type="checkbox"/>
Justification for any variation greater then 8 dB: _____	



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 00:06:07  
Description:

Serial #: 8513315  
File: 1BARBY

Cal Date: 06/07/05  
DOS File: 1BARBY

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 77 . F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	11.9	-2.4	14.3
3	WRAL	11.1	-3.4	14.5
4	LOCL	12.7	-0.4	13.1
5	WGHP	13.6	-2.9	16.5
6	WUNC	12.5	-1.1	13.6
7	WRPX	12.5	-2.2	14.7
8	WJVC	13.8	-1.5	15.3
9	WNCN	14.1	1.2	12.9
10	WRDC	14.6	0.9	13.7
11	WRAZ	15.2	-0.9	16.1
12	WLFL	13.9	1.7	12.2
13	WTVB	14.3	0.4	13.9
14	NC14	12.3	-1.3	13.6
15	HSN	12.5	-2.1	14.6
16	QVC	11.6	-2.0	13.6
17		10.2	-5.7	15.9
18	GOVT	11.9	-0.3	12.2
19	WRAY	13.2	-2.7	15.9
20	TWI1	11.8	-3.7	15.5
21	WGN	12.1	-0.6	12.7
22	BET	12.8	-0.2	13.0
24	TRI	14.3	1.5	12.8
25	USA	13.9	1.2	12.7
26	TNT	15.1	0.0	15.1
27	A+E	12.6	0.4	12.2
28	FFAM	14.0	1.1	12.9
29	CNN	15.4	1.2	14.2
30	DISC	14.3	-0.3	14.6
31	ESPN	13.9	1.7	12.2
32	ESP2	15.5	1.1	14.4
33	LIFE	13.1	0.0	13.1
34	HSN	12.5	0.0	12.5
35	QVC	15.4	2.2	13.2
36	COM	16.0	1.6	14.4
37	CNBC	14.7	0.8	13.9
38	AMC	15.7	2.8	12.9
39	TLC	17.0	2.8	14.2
40	TNN	15.2	-0.5	15.7
41	HLN	15.5	0.0	15.5
42	TWC	15.2	0.9	14.3
43	NICK	15.6	1.4	14.2
44	CORT	16.1	2.4	13.7
45	MSN	16.2	2.2	14.0
46	APL	15.2	1.5	13.7
47	CNSI	16.7	0.4	16.3
48	VH1	15.5	1.2	14.3
49	SIFI	16.7	1.4	15.3
50	FSN	16.1	2.2	13.9
51	GOLF	16.5	3.4	13.1



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 00:06:07  
Description:

Serial #: 8513315  
File: 1BARBY

Cal Date: 06/07/05  
DOS File: 1BARBY

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	17.4	2.7	14.7
54	TVLN	17.0	3.7	13.3
55	OXY	17.6	2.7	14.9
56	HIST	16.7	2.1	14.6
57	DISN	15.8	4.0	11.8
58	FOXN	18.7	4.3	14.4
59	CSPN	18.0	4.4	13.6
60	CSP2	17.7	4.2	13.5
61	WET	19.0	5.5	13.5
62	E	19.1	3.5	15.6
63	SOAP	19.2	3.0	16.2
64	SNBC	18.1	5.0	13.1
65	OLN	18.1	5.6	12.5
66	ESPC	18.8	5.6	13.2
67	TCM	18.9	3.6	15.3
69	CMT	17.7	4.7	13.0
70	NGEO	19.5	5.1	14.4
71	FX	20.1	6.2	13.9
72	ISPN	18.8	5.1	13.7
73	HLMK	20.2	6.2	14.0
74	TRAV	20.7	6.2	14.5
75	TOON	20.3	6.5	13.8
76	HGTV	20.9	5.3	15.6
77	FOOD	20.1	5.4	14.7
98	TVG	14.4	0.9	13.5
116	TEST	18.9	4.6	14.3

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 17 Video = 10.2	Pass
Max Delta Video Level	14.5 dB	Ch 17 and 76, Delta = 10.7	Pass
Min Delta V/A	10.0 dB	Ch 57 Delta V/A = 11.8	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.5	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 34 and 35, Delta = 2.9	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 06:11:19  
Description:

Serial #: 8513315  
File: 2BARBY

Cal Date: 06/07/05  
DOS File: 2BARBY

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 77 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	12.3	-2.5	14.8
3	WRAL	12.0	-2.6	14.6
4	LOCL	13.4	-0.3	13.7
5	WGHP	14.1	-2.6	16.7
6	WUNC	13.1	-1.0	14.1
7	WRPX	13.0	-1.7	14.7
8	WUVC	14.2	-1.2	15.4
9	WNCN	14.6	1.6	13.0
10	WRDC	15.1	1.7	13.4
11	WRAZ	16.0	-0.3	16.3
12	WLFL	14.6	2.1	12.5
13	WTVD	14.9	1.1	13.8
14	NC14	12.5	-0.8	13.3
15	HSN	13.4	-1.6	15.0
16	QVC	12.3	-1.6	13.9
17		11.1	-4.5	15.6
18	GOVT	13.4	0.3	13.1
19	WRAY	14.0	-2.4	16.4
20	TW11	12.1	-3.2	15.3
21	WGN	12.7	-0.5	13.2
22	BET	13.3	0.1	13.2
24	TRI	14.8	1.8	13.0
25	USA	14.3	1.7	12.6
26	TNT	16.0	0.2	15.8
27	A+E	13.3	0.6	12.7
28	FFAM	14.5	1.4	13.1
29	CNN	16.1	1.7	14.4
30	DISC	15.0	0.0	15.0
31	ESPN	14.4	2.1	12.3
32	ESP2	16.3	1.6	14.7
33	LIFE	13.7	0.5	13.2
34	HSN	13.3	0.6	12.7
35	QVC	16.2	2.4	13.8
36	COM	16.4	2.2	14.2
37	CNBC	15.3	1.5	13.8
38	AMC	16.0	3.1	12.9
39	TLC	17.0	2.8	14.2
40	TNN	15.8	-0.1	15.9
41	HLN	16.0	0.3	15.7
42	TWC	15.8	1.3	14.5
43	NICK	16.2	1.6	14.6
44	CORT	16.9	2.7	14.2
45	MSN	16.6	2.5	14.1
46	APL	15.8	1.7	14.1
47	CNSI	17.2	0.5	16.7
48	VH1	15.8	1.7	14.1
49	SIFI	17.0	1.8	15.2
50	FSN	16.4	2.3	14.1
51	GOLF	16.6	3.6	13.0



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 06:11:19  
Description:

Serial #: 8513315  
File: 2BARBY

Cal Date: 06/07/05  
DOS File: 2BARBY

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	17.8	3.0	14.8
54	TVLN	17.6	3.6	14.0
55	OXY	18.0	3.1	14.9
56	HIST	17.2	2.5	14.7
57	DISN	16.5	4.4	12.1
58	FOXN	18.7	4.6	14.1
59	CSPN	18.3	4.5	13.8
60	CSP2	18.3	4.6	13.7
61	WET	19.1	5.9	13.2
62	E	19.2	4.0	15.2
63	SOAP	19.9	3.4	16.5
64	SNBC	18.6	5.6	13.0
65	OLN	19.0	5.5	13.5
66	ESPC	19.3	5.8	13.5
67	TCM	19.2	3.9	15.3
69	CMT	18.2	5.0	13.2
70	NGEO	19.9	5.9	14.0
71	FX	20.6	5.9	14.7
72	ISPN	19.5	5.4	14.1
73	HLMK	20.5	6.5	14.0
74	TRAV	20.9	6.4	14.5
75	TOON	20.7	6.6	14.1
76	HGTV	21.2	5.9	15.3
77	FOOD	20.7	5.5	15.2
98	TVG	14.8	1.2	13.6
116	TEST	19.3	4.7	14.6

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 17 Video = 11.1	Pass
Max Delta Video Level	14.5 dB	Ch 17 and 76, Delta = 10.1	Pass
Min Delta V/A	10.0 dB	Ch 57 Delta V/A = 12.1	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.7	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 34 and 35, Delta = 2.9	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_



Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 12:03:09  
Description:

Serial #: 8513315  
File: 3BARBY

Cal Date: 06/07/05  
DOS File: 3BARBY

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 85 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	11.6	-2.9	14.5
3	WRAL	11.4	-3.5	14.9
4	LOCL	12.4	-0.7	13.1
5	WGHP	13.0	-0.6	13.6
6	WUNC	12.5	-1.3	13.8
7	WRPX	12.3	-2.3	14.6
8	WUVC	13.5	-2.0	15.5
9	WNCN	13.9	0.7	13.2
10	WRDC	14.3	0.7	13.6
11	WRAZ	15.2	-1.1	16.3
12	WLFL	13.8	1.6	12.2
13	WTVD	14.1	0.4	13.7
14	NC14	12.1	-1.5	13.6
15	HSN	12.4	-2.4	14.8
16	QVC	11.6	-2.5	14.1
17		10.1	-6.0	16.1
18	GOVT	11.8	-0.6	12.4
19	WRAY	13.0	-3.0	16.0
20	TWI1	11.5	-4.0	15.5
21	WGN	12.2	-1.0	13.2
22	BET	12.6	-0.7	13.3
24	TRI	13.8	0.9	12.9
25	USA	13.5	1.2	12.3
26	TNT	15.0	-0.6	15.6
27	A+E	12.6	-0.1	12.7
28	FFAM	13.8	1.0	12.8
29	CNN	15.3	1.2	14.1
30	DISC	14.3	-0.4	14.7
31	ESPN	13.7	1.4	12.3
32	ESP2	15.4	0.6	14.8
33	LIFE	12.9	-0.3	13.2
34	HSN	12.6	-0.3	12.9
35	QVC	15.2	1.6	13.6
36	COM	15.5	1.2	14.3
37	CNBC	14.4	0.8	13.6
38	AMC	15.0	2.3	12.7
39	TLC	16.7	2.5	14.2
40	TNN	15.2	-0.8	16.0
41	HLN	15.2	-0.3	15.5
42	TWC	14.6	0.5	14.1
43	NICK	15.1	0.8	14.3
44	CORT	15.6	1.8	13.8
45	MSN	15.8	1.8	14.0
46	APL	15.0	1.1	13.9
47	CNSI	16.3	-0.2	16.5
48	VH1	15.6	0.8	14.8
49	SIFI	16.1	1.3	14.8
50	FSN	16.0	1.8	14.2
51	GOLF	16.1	3.0	13.1





Durham/Chapel Hill  
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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 17:34:22  
Description:

Serial #: 8513315  
File: 4BARBY

Cal Date: 06/07/05  
DOS File: 4BARBY

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 91.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	10.7	-3.9	14.6
3	WRAL	10.9	-3.4	14.3
4	LOCL	12.5	-0.5	13.0
5	WGHP	11.8	-1.8	13.6
6	WUNC	11.7	-2.8	14.5
7	WRPX	12.5	-2.2	14.7
8	WUVC	13.6	-1.8	15.4
9	WNCN	13.5	-0.3	13.8
10	WRDC	13.5	-0.9	14.4
11	WRAZ	14.2	-2.1	16.3
12	WLFL	13.1	-0.1	13.2
13	WTVD	14.1	0.7	13.4
14	NC14	10.2	-3.6	13.8
15	HSN	11.7	-4.0	15.7
16	QVC	10.4	-4.0	14.4
17		10.1	-3.8	13.9
18	GOVT	13.1	0.3	12.8
19	WRAY	11.9	-3.4	15.3
20	TWI1	10.1	-4.1	14.2
21	WGN	11.2	-2.6	13.8
22	BET	12.7	-0.4	13.1
24	TRI	14.2	0.4	13.8
25	USA	12.7	-0.3	13.0
26	TNT	15.3	-1.0	16.3
27	A+E	12.9	0.3	12.6
28	FFAM	14.1	0.3	13.8
29	CNN	14.7	-0.2	14.9
30	DISC	13.4	-1.6	15.0
31	ESPN	12.8	-0.3	13.1
32	ESP2	14.5	-0.8	15.3
33	LIFE	12.1	-1.6	13.7
34	HSN	11.8	-0.8	12.6
35	QVC	14.5	0.3	14.2
36	COM	14.5	0.5	14.0
37	CNBC	14.0	0.2	13.8
38	AMC	14.5	0.7	13.8
39	TLC	16.1	1.1	15.0
40	TNN	14.2	-0.9	15.1
41	HLN	13.6	-1.8	15.4
42	TWC	15.0	0.9	14.1
43	NICK	14.9	0.3	14.6
44	CORT	14.9	0.2	14.7
45	MSN	15.4	1.3	14.1
46	APL	15.4	1.9	13.5
47	CNSI	15.5	0.7	14.8
48	VH1	14.3	0.8	13.5
49	SIFI	15.3	1.1	14.2
50	FSN	15.2	2.0	13.2
51	GOLF	15.4	2.4	13.0



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: IGOR\_PAPO  
Date: 07/28/05 Time: 17:34:22  
Description:

Serial #: 8513315  
File: 4BARBY

Cal Date: 06/07/05  
DOS File: 4BARBY

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	16.4	2.1	14.3
54	TVLN	16.2	3.4	12.8
55	OXY	16.8	1.9	14.9
56	HIST	15.9 <sup>a</sup>	1.4	14.5
57	DISN	15.5	2.7	12.8
58	FOXN	17.9	3.3	14.6
59	CSPN	18.1	4.0	14.1
60	CSP2	16.9	2.2	14.7
61	WET	18.2	4.0	14.2
62	E	17.9	3.2	14.7
63	SOAP	18.2	2.0	16.2
64	SNBC	17.3	2.9	14.4
65	OLN	17.7	3.4	14.3
66	ESPC	18.0	3.7	14.3
67	TCM	18.1	2.7	15.4
69	CMT	18.1	5.0	13.1
70	NGEO	19.6	5.2	14.4
71	FX	20.0	5.7	14.3
72	ISPN	19.0	5.3	13.7
73	HLMK	20.2	6.2	14.0
74	TRAV	20.9	6.2	14.7
75	TOON	20.3	6.0	14.3
76	HGTV	20.8	5.3	15.5
77	FOOD	20.4	5.1	15.3
98	TVG	14.1	0.8	13.3
116	TEST	19.6	5.3	14.3

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 17 Video = 10.1	Pass
Max Delta Video Level	14.5 dB	Ch 17 and 74, Delta = 10.8	Pass
Min Delta V/A	10.0 dB	Ch 27 Delta V/A = 12.6	Pass
Max Delta V/A	17.0 dB	Ch 11 Delta V/A = 16.3	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 17 and 18, Delta = 3.0	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

## Test 3 - Signal Levels and Level Variations Test

Summary Page 1 of 1

System Name: Durham/Chapel Hill  
 Test Point Location: New Hope  
 Date of Test: 7-28-05 Time: 06:01  
 Tech(s) Performing Test: Donald Brown

Highest Band Pass: 770 MHz  
 Test Point Number: 15  
 Temperature: 77  
 Date Begun: 7-28-05

Equipment Used	Make/Model	Serial Number	Calibration Date
Spectrum Analyzer			
FSM	<u>SDA 5000</u>	<u>6313675</u>	<u>N/A</u>

**Test Setup used:** A 30 meter (98.45 foot) cable drop from the test point is fed into the Field Strength Meter or Spectrum Analyzer. Audio and video carrier levels are measured, before the channel selector, to determine the extent to which the standard is met. All levels are measured and recorded every 6 hours +/- 1 hour. The time and temperature of each measurement is also recorded. The measurements are made on each NTSC channel.

**Minimum Specifications:** The five specifications listed here are "Proofed" by this test:

1. All levels are to be measured and recorded ever 6 hours +/- 1 hour.  
 Date/Time 7-28 06:01 7-28 12:01 7-28 18:01 7-29 00:01 Was the Specification Met? Yes , No

2. The Visual Carrier Level cannot vary more then 10 dB from any visual carrier on the cable television system of up to 300 MHz of forward bandwidth. (For system having a forward bandwidth greater than 300 MHz 1 additional dB per 100 MHz of forward bandwidth is allowed).

Maximum Video Carrier Level	<u>18.2</u>	<u>17.7</u>	<u>18.2</u>	<u>18.8</u>
Minimum Video Carrier Level	<u>12.9</u>	<u>12.4</u>	<u>12.2</u>	<u>12.6</u>
Variation Highest & Lowest Video Levels	<u>5.3</u>	<u>5.3</u>	<u>6.0</u>	<u>6.2</u>

Maximum allowed variation between highest level carrier and the lowest level carrier per bandwidth 14.5 Was the specification met? Yes , No   
 Justification for any variation in this requirement:

3. All audio carrier levels are to be maintained less then 6.5 dB below the video carrier but not more then 17 dB below the video carrier.  
 Was the Specification Met? Yes , No   
 Justification for any variation in this requirement:

4. Video carriers are not allowed to vary more then 3 dB from any adjacent channel?  
 Was this Specification Met? Yes , No   
 Justification for any variation greater than 3 dB:

5. All video carriers must maintain a level greater then 3 dBmV at the end of a 100 foot drop.  
 Was this Specification Met? Yes , No   
 Justification for any video level less then 3 dBmV:

6. During this 24 hour test all video carrier level changes must be less then 8 dB  
 Was this Specification Met? Yes , No   
 Justification for any variation greater then 8 dB: \_\_\_\_\_  
 Video carrier levels are not allowed to change more then 8 dB from the measurement made in the last 24 hour test.  
 Was this Specification Met? Yes , No   
 Justification for any variation greater then 8 dB: \_\_\_\_\_



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/28/05 Time: 06:01:14  
Description:

Serial #: 6313675  
File: 1\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 1\_NEW\_HOPE

Location: ?	AmplID:	Reverse Pad: 0.0
Location Type: Undefined	Power Cfg: IN	Forward Pad: 0.0
Area:	Feeder Maker Cfg: 1	Rev Equalizer: 0.0
Test Pnt Type: None	Trunk Term: NO	Fwd Equalizer: 0.0
Test Pnt Comp: 0.0	Voltage Setting: LOW	Temp: 77.0 F
AC Voltage: 0	DC Voltage (reg): 0.0	DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	14.5	-0.4	14.9
3	WRAL	12.9	-2.0	14.9
4	LOCL	14.4	0.9	13.5
5	WGHP	14.6	-1.9	16.5
6	WUNC	12.9	-0.3	13.2
7	WRPX	13.8	-0.3	14.1
8	WUVC	15.1	-0.8	15.9
9	WNCN	14.3	1.1	13.2
10	WRDC	15.2	2.3	12.9
11	WRAZ	15.4	0.1	15.3
12	WLFL	14.6	1.9	12.7
13	WTVD	15.4	1.6	13.8
14	NC14	13.9	0.1	13.8
15	HSN	13.6	-0.7	14.3
16	QVC	12.6	-0.3	12.9
17		13.4	-0.5	13.9
18	GOVT	14.2	1.1	13.1
19	WRAY	14.3	-0.6	14.9
20	TWI1	13.7	-1.2	14.9
21	WGN	13.8	0.2	13.6
22	BET	13.5	0.0	13.5
24	TRI	15.3	2.1	13.2
25	USA	15.7	2.1	13.6
26	TNT	14.9	1.9	13.0
27	A+E	15.4	1.8	13.6
28	FFAM	15.6	2.1	13.5
29	CNN	15.4	1.9	13.5
30	DISC	15.5	1.3	14.2
31	ESPN	15.8	2.2	13.6
32	ESP2	15.9	2.5	13.4
33	LIFE	15.8	2.5	13.3
34	HSN	15.8	2.1	13.7
35	QVC	16.7	2.8	13.9
36	COM	16.8	2.8	14.0
37	CNBC	16.6	3.1	13.5
38	AMC	16.4	3.5	12.9
39	TLC	16.8	3.4	13.4
40	TNN	17.0	2.1	14.9
41	HLN	17.3	2.5	14.8
42	TWC	16.3	1.6	14.7
43	NICK	16.3	1.8	14.5
44	CORT	16.5	3.4	13.1
45	MSN	16.9	2.6	14.3
46	APL	16.6	2.3	14.3
47	CNSI	17.4	1.6	15.8
48	VH1	16.9	1.7	15.2
49	SIFI	17.5	2.6	14.9
50	FSN	17.4	3.0	14.4
51	GOLF	16.9	3.0	13.9



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/28/05 Time: 06:01:14  
Description:

Serial #: 6313675  
File: 1\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 1\_NEW\_HOPE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	17.6	3.2	14.4
54	TVLN	18.1	3.5	14.6
55	OXY	17.8	3.4	14.4
56	HIST	17.9	3.5	14.4
57	DISN	17.4	4.2	13.2
58	FOXN	18.2	3.5	14.7
59	CSPN	17.2	4.1	13.1
60	CSP2	17.4	4.0	13.4
61	WET	17.9	4.3	13.6
62	E	17.3	2.5	14.8
63	SOAP	17.7	2.9	14.8
64	SNBC	17.6	4.2	13.4
65	OLN	17.5	4.0	13.5
66	ESPC	17.0	3.7	13.3
67	TCM	17.5	3.0	14.5
69	CMT	16.8	2.2	14.6
70	NGEO	16.9	3.0	13.9
71	FX	16.8	2.4	14.4
72	ISPN	16.6	2.0	14.6
73	HLMK	17.4	3.7	13.7
74	TRAV	17.5	2.9	14.6
75	TOON	17.6	3.2	14.4
76	HGTV	17.5	2.9	14.6
77	FOOD	17.9	3.2	14.7
98	TVG	14.3	1.7	12.6
116	TEST	15.6	1.2	14.4

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 16 Video = 12.6	Pass
Max Delta Video Level	14.5 dB	Ch 16 and 58, Delta = 5.6	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.6	Pass
Max Delta V/A	17.0 dB	Ch 5 Delta V/A = 16.5	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 5 and 6, Delta = 1.7	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/28/05 Time: 12:01:09  
Description:

Serial #: 6313675  
File: 2\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 2\_NEW\_HOPE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 88.0 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	14.2	-0.3	14.5
3	WRAL	12.8	-2.1	14.9
4	LOCL	14.4	0.8	13.6
5	WGHP	13.9	0.4	13.5
6	WUNC	12.7	-0.1	12.8
7	WRPX	13.7	-0.4	14.1
8	WUVC	15.0	-1.0	16.0
9	WNCN	14.1	1.0	13.1
10	WRDC	15.1	2.0	13.1
11	WRAZ	15.3	0.1	15.2
12	WLFL	14.4	1.8	12.6
13	WTVD	14.9	1.7	13.2
14	NC14	12.8	-0.5	13.3
15	HSN	12.4	-0.9	13.3
16	QVC	12.8	0.2	12.6
17		13.4	-1.3	14.7
18	GOVT	14.9	1.2	13.7
19	WRAY	14.3	-0.6	14.9
20	TWI1	13.9	-1.2	15.1
21	WGN	13.4	0.2	13.2
22	BET	13.3	0.0	13.3
24	TRI	14.9	2.2	12.7
25	USA	15.4	2.2	13.2
26	TNT	14.9	1.7	13.2
27	A+E	15.3	1.7	13.6
28	FFAM	15.4	2.0	13.4
29	CNN	15.2	1.9	13.3
30	DISC	14.8	1.0	13.8
31	ESPN	15.5	2.0	13.5
32	ESP2	15.7	2.4	13.3
33	LIFE	15.8	2.4	13.4
34	HSN	15.6	1.8	13.8
35	QVC	16.6	2.5	14.1
36	COM	16.6	2.7	13.9
37	CNBC	16.4	3.0	13.4
38	AMC	16.0	3.2	12.8
39	TLC	16.6	3.4	13.2
40	TNN	16.6	1.9	14.7
41	HLN	17.0	2.3	14.7
42	TWC	16.0	1.5	14.5
43	NICK	16.0	1.6	14.4
44	CORT	16.4	3.1	13.3
45	MSN	16.5	2.5	14.0
46	APL	16.4	2.1	14.3
47	CNSI	17.3	1.5	15.8
48	VH1	16.7	1.6	15.1
49	SIFI	17.0	2.5	14.5
50	FSN	17.2	2.9	14.3
51	GOLF	16.8	2.8	14.0



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/28/05 Time: 12:01:09  
Description:

Serial #: 6313675  
File: 2\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 2\_NEW\_HOPE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	17.3	2.9	14.4
54	TVLN	17.7	3.0	14.7
55	OXY	17.6	3.3	14.3
56	HIST	17.5	3.2	14.3
57	DISN	17.2	4.0	13.2
58	FOXN	17.7	3.1	14.6
59	CSPN	16.9	3.7	13.2
60	CSP2	17.2	3.8	13.4
61	WET	17.4	3.8	13.6
62	E	17.0	2.3	14.7
63	SOAP	17.4	2.8	14.6
64	SNBC	17.5	4.0	13.5
65	OLN	17.0	3.8	13.2
66	ESPC	16.7	3.5	13.2
67	TCM	17.1	2.7	14.4
69	CMT	16.5	1.7	14.8
70	NGEO	16.5	2.8	13.7
71	FX	16.4	2.1	14.3
72	ISPN	16.1	1.8	14.3
73	HLMK	17.0	3.5	13.5
74	TRAV	17.0	2.5	14.5
75	TOON	17.3	2.8	14.5
76	HGTV	17.1	2.5	14.6
77	FOOD	17.3	2.9	14.4
98	TVG	14.1	1.9	12.2
116	TEST	15.0	0.5	14.5

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 15 Video = 12.4	Pass
Max Delta Video Level	14.5 dB	Ch 15 and 54, Delta = 5.3	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.2	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.0	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 1.6	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_



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Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/28/05 Time: 18:01:10  
Description:

Serial #: 6313675  
File: 3\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 3\_NEW\_HOPE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 89.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	13.6	-1.0	14.6
3	WRAL	13.4	-1.6	15.0
4	LOCL	14.8	1.2	13.6
5	WGHP	13.2	-0.5	13.7
6	WUNC	12.5	-0.9	13.4
7	WRPX	14.1	0.2	13.9
8	WUVC	15.7	-0.4	16.1
9	WNCN	13.9	0.3	13.6
10	WRDC	14.3	1.0	13.3
11	WRAZ	14.5	-0.4	14.9
12	WLFL	14.1	0.6	13.5
13	WTVD	15.8	2.4	13.4
14	NC14	11.4	-2.5	13.9
15	HSN	12.2	-2.2	14.4
16	QVC	12.3	-1.0	13.3
17		14.0	-1.8	15.8
18	GOVT	15.1	1.7	13.4
19	WRAY	13.2	-0.6	13.8
20	TWI1	12.8	-0.8	13.6
21	WGN	13.3	-1.0	14.3
22	BET	14.1	0.5	13.6
24	TRI	15.9	2.0	13.9
25	USA	14.9	1.2	13.7
26	TNT	15.8	1.5	14.3
27	A+E	15.9	2.4	13.5
28	FFAM	16.3	2.0	14.3
29	CNN	15.0	0.9	14.1
30	DISC	14.5	0.7	13.8
31	ESPN	15.0	0.9	14.1
32	ESP2	15.3	1.5	13.8
33	LIFE	15.5	1.5	14.0
34	HSN	15.5	1.8	13.7
35	QVC	16.4	1.9	14.5
36	COM	16.0	2.3	13.7
37	CNBC	16.1	2.6	13.5
38	AMC	16.0	1.9	14.1
39	TLC	16.5	2.5	14.0
40	TNN	16.3	2.2	14.1
41	HLN	16.0	1.5	14.5
42	TWC	16.8	2.2	14.6
43	NICK	15.7	1.4	14.3
44	CORT	15.7	1.7	14.0
45	MSN	16.2	2.2	14.0
46	APL	17.1	2.8	14.3
47	CNSI	16.5	2.3	14.2
48	VH1	16.1	1.9	14.2
49	SIFI	16.5	2.7	13.8
50	FSN	16.9	3.2	13.7
51	GOLF	16.4	2.4	14.0





Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/28/05 Time: 18:01:10  
Description:

Serial #: 6313675  
File: 3\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 3\_NEW\_HOPE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	17.0	2.7	14.3
54	TVLN	17.3	3.7	13.6
55	OXY	17.2	3.1	14.1
56	HIST	17.4	3.0	14.4
57	DISN	17.3	3.1	14.2
58	FOXN	17.6	3.0	14.6
59	CSPN	17.7	3.9	13.8
60	CSP2	17.1	2.5	14.6
61	WET	17.2	3.1	14.1
62	E	16.8	2.5	14.3
63	SOAP	17.2	2.4	14.8
64	SNBC	17.2	2.6	14.6
65	OLN	17.5	2.7	14.8
66	ESPC	16.8	2.4	14.4
67	TCM	17.1	2.3	14.8
69	CMT	17.3	2.5	14.8
70	NGEO	17.4	3.5	13.9
71	FX	17.2	2.9	14.3
72	ISPN	16.9	2.5	14.4
73	HLMK	17.8	4.3	13.5
74	TRAV	17.9	3.3	14.6
75	TOON	18.2	3.5	14.7
76	HGTV	17.9	3.2	14.7
77	FOOD	18.2	3.6	14.6
98	TVG	14.7	2.3	12.4
116	TEST	15.9	1.4	14.5

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 14 Video = 11.4	Pass
Max Delta Video Level	14.5 dB	Ch 14 and 75, Delta = 6.8	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.4	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.1	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 18 and 19, Delta = 1.9	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>P A S S</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# AutoTest Report



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D^BROWN  
Date: 07/29/05 Time: 00:01:24  
Description:

Serial #: 6313675  
File: 4\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 4\_NEW\_HOPE

Location: ?  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmplID:  
Power Cfg: IN  
Feeder Maker Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Reverse Pad: 0.0  
Forward Pad: 0.0  
Rev Equalizer: 0.0  
Fwd Equalizer: 0.0  
Temp: 71.1 F  
DC Voltage (unreg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2	WFMY	14.1	-0.6	14.7
3	WRAL	13.6	-1.1	14.7
4	LOCL	15.5	1.6	13.9
5	WGHP	13.6	-0.3	13.9
6	WUNC	12.8	-0.6	13.4
7	WRPX	14.7	0.5	14.2
8	WUVC	16.0	-0.1	16.1
9	WNCN	14.3	0.6	13.7
10	WRDC	14.9	1.2	13.7
11	WRAZ	14.8	-0.2	15.0
12	WLFL	14.4	0.7	13.7
13	WTVB	16.2	2.6	13.6
14	NC14	12.6	-1.5	14.1
15	HSN	12.8	-2.3	15.1
16	QVC	12.6	-1.0	13.6
17		13.8	-2.1	15.9
18	GOVT	14.6	1.8	12.8
19	WRAY	13.7	-0.4	14.1
20	TW11	12.9	-0.9	13.8
21	WGN	13.1	-1.0	14.1
22	BET	14.2	0.8	13.4
24	TRI	16.3	2.1	14.2
25	USA	15.4	1.4	14.0
26	TNT	16.0	1.6	14.4
27	A+E	16.4	3.0	13.4
28	FFAM	16.5	2.2	14.3
29	CNN	15.3	1.0	14.3
30	DISC	14.7	0.8	13.9
31	ESPN	15.6	1.3	14.3
32	ESP2	15.8	1.9	13.9
33	LIFE	16.0	1.9	14.1
34	HSN	15.9	2.1	13.8
35	QVC	16.8	2.4	14.4
36	COM	16.5	2.9	13.6
37	CNBC	16.6	3.2	13.4
38	AMC	16.6	2.4	14.2
39	TLC	17.0	2.9	14.1
40	TNN	16.7	2.5	14.2
41	HLN	16.4	2.0	14.4
42	TWC	17.3	2.4	14.9
43	NICK	16.3	1.7	14.6
44	CORT	16.1	2.1	14.0
45	MSN	16.7	2.8	13.9
46	APL	17.6	3.3	14.3
47	CNSI	17.0	3.0	14.0
48	VH1	16.5	2.4	14.1
49	SIFI	17.1	3.3	13.8
50	FSN	17.5	3.7	13.8
51	GOLF	17.0	3.2	13.8



Durham/Chapel Hill  
708 East club Blvd.  
Durham, NC  
27704

Summer 2005 Proof of Performance

Model: SDA-5000  
Operator: D\*BROWN  
Date: 07/29/05 Time: 00:01:24  
Description:

Serial #: 6313675  
File: 4\_NEW\_HOPE

Cal Date: 06/24/05  
DOS File: 4\_NEW\_HOPE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
53	MTV	17.5	3.1	14.4
54	TVLN	18.0	4.1	13.9
55	OXY	18.0	3.4	14.6
56	HIST	17.9	3.3	14.6
57	DISN	17.9	3.5	14.4
58	FOXN	18.0	3.3	14.7
59	CSPN	18.1	4.2	13.9
60	CSP2	17.6	3.1	14.5
61	WET	17.8	3.6	14.2
62	E	17.3	2.9	14.4
63	SOAP	17.7	2.8	14.9
64	SNBC	17.7	2.9	14.8
65	OLN	17.6	2.8	14.8
66	ESPC	17.2	2.7	14.5
67	TCM	17.6	2.8	14.8
69	CMT	17.4	2.6	14.8
70	NGEO	17.6	4.0	13.6
71	FX	17.6	3.3	14.3
72	ISPN	17.3	2.9	14.4
73	HLMK	18.2	4.5	13.7
74	TRAV	18.3	3.6	14.7
75	TOON	18.5	4.0	14.5
76	HGTV	18.4	3.7	14.7
77	FOOD	18.8	4.2	14.6
98	TVG	15.3	2.6	12.7
116	TEST	16.8	2.1	14.7

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	3.0 dBmV	Ch 14 Video = 12.6	Pass
Max Delta Video Level	14.5 dB	Ch 14 and 77, Delta = 6.2	Pass
Min Delta V/A	10.0 dB	Ch 98 Delta V/A = 12.7	Pass
Max Delta V/A	17.0 dB	Ch 8 Delta V/A = 16.1	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 3 and 4, Delta = 1.9	Pass
Min Digital Level	undefined	No data	Pass
Max Digital Level	undefined	No data	Pass
Conclusion:			<b>PASS</b>

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

## Section 4 - Color and Channel Frequency Response Test

System Name: Durham  
 Test Point Location: Durham Lineup  
 Date of Test: Aug 2, 2005 Time: 9:00 AM  
 Tech(s) Performing Test: Jerome Kelly

Highest Band Pass: 230 MHz  
 Test Point Number: 0.1  
 Temperature: 70°

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>8591C</u>	<u>4115A04937</u>	<u>5/05</u>
Waveform Monitor			<u>N/A</u>
Vectorscope			
Test Demodulator			
Video Sig. Generator	<u>1.1.46 VIT 411</u>	<u>07030050</u>	<u>7-8-03</u>
Band Pass Filter 1			<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB. As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacturer's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system uper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	<u>VITS</u>	<u>16NS</u>	<u>0.3%</u>	<u>0.9°</u>	<u>0.1db</u>
5	<u>VITS</u>	<u>109NS</u>	<u>2.1%</u>	<u>4.4°</u>	<u>0.2db</u>
12	<u>VITS</u>	<u>3NS</u>	<u>1.7%</u>	<u>1.3°</u>	<u>0.3db</u>
16	<u>VITS</u>	<u>40NS</u>	<u>2.7%</u>	<u>0.6°</u>	<u>0.2db</u>
26	<u>VITS</u>	<u>32NS</u>	<u>4.7%</u>	<u>2.0°</u>	<u>0.1db</u>
29	<u>VITS</u>	<u>62NS</u>	<u>2.7%</u>	<u>2.7°</u>	<u>0.4db</u>
34	<u>VITS</u>	<u>40NS</u>	<u>3.9%</u>	<u>2.7°</u>	<u>0.5db</u>
51	<u>VITS</u>	<u>17NS</u>	<u>2.1%</u>	<u>6.5°</u>	<u>0.2db</u>
57	<u>VITS</u>	<u>14NS</u>	<u>2.4%</u>	<u>3.0°</u>	<u>0.5db</u>
64	<u>VITS</u>	<u>75NS</u>	<u>4.4%</u>	<u>1.5°</u>	<u>0.2db</u>
75	<u>VITS</u>	<u>29NS</u>	<u>4.7%</u>	<u>4.7°</u>	<u>0.2db</u>
116	<u>GEN</u>	<u>59NS</u>	<u>2.2%</u>	<u>1.1°</u>	<u>0.2db</u>

## Section 4 - Color and Channel Frequency Response Test

System Name: HENDERSON  
 Test Point Location: HUB 22  
 Date of Test: 7/29/05 Time: 8:40 AM  
 Tech(s) Performing Test: JIM VORNDRAH

Highest Band Pass: 765 MHz  
 Test Point Number: 0.10  
 Temperature: 75°F

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3543A01171</u>	<u>1/24/05</u>
Waveform Monitor			<u>N/A</u>
Vectorscope			
Test Demodulator			
Video Sigl. Generator	<u>VIDEOTEK VIT 411</u>	<u>100000315</u>	<u>4/9/02</u>
Band Pass Filter 1			<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>
<u>VIDEO SIGL GEN</u>	<u>TEKTRONIX 1910</u>	<u>8010505</u>	

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>VITS</u>	<u>19</u>	<u>2.7</u>	<u>1.1</u>	<u>0.1</u>
<u>4</u>	<u>VITS</u>	<u>18</u>	<u>1.0</u>	<u>1.3</u>	<u>0.3</u>
<u>16</u>	<u>VITS</u>	<u>62</u>	<u>2.4</u>	<u>1.2</u>	<u>0.3</u>
<u>10</u>	<u>GEN</u>	<u>-8</u>	<u>0.8</u>	<u>1.2</u>	<u>0.2</u>
<u>26</u>	<u>VITS</u>	<u>66</u>	<u>3.1</u>	<u>2.3</u>	<u>0.2</u>
<u>29</u>	<u>VITS</u>	<u>98</u>	<u>3.0</u>	<u>2.2</u>	<u>0.2</u>
<u>34</u>	<u>VITS</u>	<u>52</u>	<u>1.3</u>	<u>2.1</u>	<u>0.5</u>
<u>51</u>	<u>VITS</u>	<u>12</u>	<u>1.8</u>	<u>2.0</u>	<u>0.5</u>
<u>59</u>	<u>VITS</u>	<u>36</u>	<u>1.2</u>	<u>2.3</u>	<u>0.6</u>
<u>64</u>	<u>VITS</u>	<u>96</u>	<u>2.5</u>	<u>1.4</u>	<u>0.3</u>
<u>75</u>	<u>VITS</u>	<u>49</u>	<u>3.5</u>	<u>3.7</u>	<u>0.2</u>
<u>116</u>	<u>GEN</u>	<u>-4</u>	<u>1.8</u>	<u>1.7</u>	<u>0.2</u>

## Section 4 - Color and Channel Frequency Response Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 70 MHz

Test Point Location: S. MAIN ST. WARRENTON

Test Point Number: 1

Date of Test: 8-11-05 Time: 1:30

Temperature: 94°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3543A01171	4/27/04
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	VIDEOTECH	070300050	07/08/03
Band Pass Filter 1			N/A
Band Pass Filter 2			N/A

Test Setup used: The 30 meeter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	GEN	<u>-70</u>			<u>0.5</u>
4	VITS				<u>0.4</u>
16	VITS				<u>0.2</u>
<del>10</del> 10	VITS				<u>0.5</u>
26	VITS				<u>0.4</u>
29	VITS				<u>0.4</u>
34	VITS				<u>0.3</u>
51	VITS				<u>0.2</u>
59	VITS				<u>0.7</u>
64	VITS				<u>0.5</u>
75	VITS				<u>0.3</u>
116	GEN				<u>0.1</u>

## Section 4 - Color and Channel Frequency Response Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHZ

Test Point Location: Hibernia Rd

Test Point Number: 2

Date of Test: 8/12/05 Time: 9:45

Temperature: 92°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	VIDEOTECH	070300050	07/08/03
	VIDEOTECH	100000315	04/09/02
	TEKTRONICS	B010505	04/09/02

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	GEN	-47			0.3
4	VITS				0.4
10	VITS				0.4
12	VITS				0.5
26	VITS				0.3
29	VITS				0.4
34	VITS				0.5
51	VITS				0.4
59	VITS				0.6
64	VITS				0.4
75	VITS				0.4
116	GEN				0.2

## Section 4 - Color and Channel Frequency Response Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHZ

Test Point Location: 419 Hwy 561 - Louisiana

Test Point Number: 3

Date of Test: 8/11/05 Time: 9:00

Temperature: 88

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	VIDEOTECH	070300050	07/08/03
	VIDEOTECH	100000315	04/09/02
	TEKTRONICS	B010505	04/09/02

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	GEN	-7A			0.6
4	VITS				0.7
10	VITS				0.4
12	VITS				0.8
26	VITS				0.2
29	VITS				0.4
34	VITS				0.7
51	VITS				0.7
59	VITS				0.4
64	VITS				0.4
75	VITS				0.2
116	GEN				0.4



## Section 4 - Color and Channel Frequency Response Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHz

Test Point Location: Lynnbank Rd

Test Point Number: 4

Date of Test: 8/10/05 Time: 2:00 PM

Temperature: 96°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	VIDEOTECH	070300050	07/08/03
	VIDEOTECH	100000315	04/09/02
	TEKTRONICS	B010505	04/09/02

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	GEN	<u>-61</u>			<u>0.3</u>
4	VITS				<u>0.5</u>
10	VITS				<u>0.4</u>
12	VITS				<u>0.4</u>
26	VITS				<u>0.4</u>
29	VITS				<u>0.4</u>
34	VITS				<u>0.5</u>
51	VITS				<u>0.6</u>
59	VITS				<u>0.3</u>
64	VITS				<u>0.2</u>
75	VITS				<u>0.3</u>
116	GEN				<u>0.3</u>

### Section 4 - Color and Channel Frequency Response Test

System Name: HENDERSON (CENTRAL DISTRICT)

Highest Band Pass: 770 MHz

Test Point Location: Puckett St Stovall

Test Point Number: 50

Date of Test: 8-12-05 Time: 2:00 PM

Temperature: 96°F

Tech(s) Performing Test: BOBBY DEBNAM

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP8591C	3916A04141	1/25/05
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	VIDEOTECH	070300050	07/08/03
	VIDEOTECH	100000315	04/09/02
	TEKTRONICS	B010505	04/09/02

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	GEN	-61			0.4
4	VITS				0.6
10	VITS				0.5
12	VITS				0.4
26	VITS				0.3
29	VITS				0.2
34	VITS				0.4
51	VITS				0.4
59	VITS				0.4
64	VITS				0.3
75	VITS				0.3
116	GEN				0.1

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Hayworth  
 Date of Test: 7-30-05 Time: 8:55  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 6  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor			<u>N/A</u>
Vectorscope			
Test Demodulator			
Video Sigl. Generator	<u>TEKtronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacturer's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>-70</u>			<u>.2</u>
<u>3</u>	<u>VITS</u>				<u>.3</u>
<u>9</u>	<u>VITS</u>				<u>.1</u>
<u>22</u>	<u>VITS</u>				<u>.2</u>
<u>26</u>	<u>VITS</u>				<u>.4</u>
<u>29</u>	<u>VITS</u>				<u>.5</u>
<u>34</u>	<u>VITS</u>				<u>.2</u>
<u>43</u>	<u>VITS</u>				<u>.2</u>
<u>49</u>	<u>VITS</u>				<u>.3</u>
<u>57</u>	<u>VITS</u>				<u>.3</u>
<u>75</u>	<u>VITS</u>				<u>.8</u>
<u>116</u>	<u>Gen</u>				<u>.4</u>

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Hoover Rd  
 Date of Test: 7-29-05 Time: 3:07  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 7  
 Temperature: 80

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	Tektronix 1910	B010505	4/7/05
Band Pass Filter 1	Tritonic AM1000	200318012	N/A
Band Pass Filter 2			N/A

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacturer's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
2	Gen	3			.2
3	VITS				.3
9	VITS				.2
22	VITS				.2
26	VITS				.3
29	VITS				.5
34	VITS				.2
43	VITS				.1
49	VITS				.1
57	VITS				.3
75	VITS				.7
116	Gen				.3

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Lavender  
 Date of Test: 7-30-05 Time: 3:48  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 8  
 Temperature: 78

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor			<u>N/A</u>
Vectorscope			
Test Demodulator			
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacturer's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>-40</u>			<u>1.4</u>
<u>3</u>	<u>VITS</u>				<u>1.4</u>
<u>9</u>	<u>VITS</u>				<u>1.6</u>
<u>22</u>	<u>VITS</u>				<u>1.3</u>
<u>26</u>	<u>VITS</u>				<u>1.2</u>
<u>29</u>	<u>VITS</u>				<u>1.2</u>
<u>34</u>	<u>VITS</u>				<u>1.2</u>
<u>43</u>	<u>VITS</u>				<u>1.4</u>
<u>49</u>	<u>VITS</u>				<u>1.1</u>
<u>57</u>	<u>VITS</u>				<u>1.1</u>
<u>75</u>	<u>VITS</u>				<u>1.5</u>
<u>116</u>	<u>Gen</u>				<u>1.6</u>

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Ravenwoods  
 Date of Test: 8-1-05 Time: 9:38  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 9  
 Temperature: 76

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor	_____	_____	<u>N/A</u>
Vectorscope	_____	_____	_____
Test Demodulator	_____	_____	_____
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Tritonic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more then a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>-90</u>	_____	_____	<u>.2</u>
<u>3</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>9</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>22</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>26</u>	<u>VITS</u>	_____	_____	_____	<u>.3</u>
<u>29</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>34</u>	<u>VITS</u>	_____	_____	_____	<u>.1</u>
<u>43</u>	<u>VITS</u>	_____	_____	_____	<u>.1</u>
<u>49</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>57</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>75</u>	<u>VITS</u>	_____	_____	_____	<u>.5</u>
<u>116</u>	<u>Gen</u>	_____	_____	_____	<u>.3</u>

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill Highest Band Pass: 770 MHz  
 Test Point Location: Dixon Rd Test Point Number: 10  
 Date of Test: 7-30-05 Time: 12:17 Temperature: 77  
 Tech(s) Performing Test: Pat Dobson

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor	_____	_____	<u>N/A</u>
Vectorscope	_____	_____	_____
Test Demodulator	_____	_____	_____
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilitmic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [-/+ 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>75</u>	_____	_____	<u>1.0</u>
<u>3</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>9</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>22</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>26</u>	<u>VITS</u>	_____	_____	_____	<u>.3</u>
<u>29</u>	<u>VITS</u>	_____	_____	_____	<u>.6</u>
<u>34</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>43</u>	<u>VITS</u>	_____	_____	_____	<u>.3</u>
<u>49</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>57</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>75</u>	<u>VITS</u>	_____	_____	_____	<u>.6</u>
<u>116</u>	<u>Gen</u>	_____	_____	_____	<u>.2</u>

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Arborfield  
 Date of Test: 7-30-05 Time: 2:46  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 11  
 Temperature: 77

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor			<u>N/A</u>
Vectorscope			
Test Demodulator			
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>

Test Setup used: The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacturer's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>61</u>			<u>.4</u>
<u>3</u>	<u>VITS</u>				<u>.4</u>
<u>9</u>	<u>VITS</u>				<u>.2</u>
<u>22</u>	<u>VITS</u>				<u>.2</u>
<u>26</u>	<u>VITS</u>				<u>.1</u>
<u>29</u>	<u>VITS</u>				<u>.6</u>
<u>34</u>	<u>VITS</u>				<u>.5</u>
<u>43</u>	<u>VITS</u>				<u>.4</u>
<u>49</u>	<u>VITS</u>				<u>.2</u>
<u>57</u>	<u>VITS</u>				<u>.2</u>
<u>75</u>	<u>VITS</u>				<u>.4</u>
<u>116</u>	<u>Gen</u>				<u>.7</u>



### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Oak Grove  
 Date of Test: 8-1-05 Time: 10:59  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 12  
 Temperature: 80

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor	_____	_____	<u>N/A</u>
Vectorscope	_____	_____	_____
Test Demodulator	_____	_____	_____
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

Test Setup used: The 30 meeter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

Number of Measurements: The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

Minimum Specifications: All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [± 20 %] (Percent)	Diff. Phase [± 10 Deg.] (Degrees)	Frequency Response [± 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>-62</u>	_____	_____	<u>.5</u>
<u>3</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>9</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>22</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>26</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>29</u>	<u>VITS</u>	_____	_____	_____	<u>.1</u>
<u>34</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>43</u>	<u>VITS</u>	_____	_____	_____	<u>.3</u>
<u>49</u>	<u>VITS</u>	_____	_____	_____	<u>.6</u>
<u>57</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>75</u>	<u>VITS</u>	_____	_____	_____	<u>.6</u>
<u>116</u>	<u>Gen</u>	_____	_____	_____	<u>.5</u>

## Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: Adirondack  
 Date of Test: 7-30-05 Time: 10:10  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 13  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor	_____	_____	<u>N/A</u>
Vectorscope	_____	_____	_____
Test Demodulator	_____	_____	_____
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2	_____	_____	<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacturer's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [+/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>90</u>	_____	_____	<u>.5</u>
<u>3</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>9</u>	<u>VITS</u>	_____	_____	_____	<u>.1</u>
<u>22</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>26</u>	<u>VITS</u>	_____	_____	_____	<u>.3</u>
<u>29</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>34</u>	<u>VITS</u>	_____	_____	_____	<u>.1</u>
<u>43</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>49</u>	<u>VITS</u>	_____	_____	_____	<u>.4</u>
<u>57</u>	<u>VITS</u>	_____	_____	_____	<u>.2</u>
<u>75</u>	<u>VITS</u>	_____	_____	_____	<u>.8</u>
<u>116</u>	<u>Gen</u>	_____	_____	_____	<u>.5</u>

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: W Barbee Chapel  
 Date of Test: 7-30-05 Time: 11:17  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 14  
 Temperature: 75

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	HP 8591C	3513A00741	4/7/05
Waveform Monitor			N/A
Vectorscope			
Test Demodulator			
Video Sigl. Generator	Tektronix 1910	B010505	4/7/05
Band Pass Filter 1	Trilithic AM1000	200318012	N/A
Band Pass Filter 2			N/A

**Test Setup used:** The 30 meeter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989. Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz).. Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [ +/- 20 %] (Percent)	Diff. Phase [ +/- 10 Deg.] (Degrees)	Frequency Response [ +/- 2 dB] (dB)
2	Gen	-70			.6
3	VITS				.4
9	VITS				.6
22	VITS				.7
26	VITS				.3
29	VITS				.9
34	VITS				.5
43	VITS				.5
49	VITS				.7
57	VITS				.3
75	VITS				.9
116	Gen				.5

### Section 4 - Color and Channel Frequency Response Test

System Name: Durham / Chapel Hill  
 Test Point Location: New Hope  
 Date of Test: 7-29-05 Time: 12:55  
 Tech(s) Performing Test: Pat Dobson

Highest Band Pass: 770 MHz  
 Test Point Number: 15  
 Temperature: 82

Equipment Used	Make/Model	Serial Number	Last Calibration Date
Spectrum Analyzer	<u>HP 8591C</u>	<u>3513A00741</u>	<u>4/7/05</u>
Waveform Monitor			<u>N/A</u>
Vectorscope			
Test Demodulator			
Video Sigl. Generator	<u>Tektronix 1910</u>	<u>B010505</u>	<u>4/7/05</u>
Band Pass Filter 1	<u>Trilithic AM1000</u>	<u>200318012</u>	<u>N/A</u>
Band Pass Filter 2			<u>N/A</u>

**Test Setup used:** The 30 meter (98.45 foot) cable drop from the test point is fed into the Test Demodulator. The video output of the test demodulator is fed to the Video Waveform Monitor, and looped through to the Vectorscope. The required "12.5T modulated Sine-squared Pulse" and "Modulated Stair Step" test signals are generated by the Video Signal Generator or are received as part of the VITS provided by the program source. Care should be exercised when using VITS signals supplied by the program source. Such VITS signals may arrive at the Headend with imperfections that could result in failed tests. Following good engineering practices and NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, Chrominance to Luminance Delay Inequality, Differential Gain, and Differential Phase measurements are performed on the required channels. The results are recorded below.

For Channel Frequency Response measurements the Multiburst test signal is acquired on the Waveform Monitor. Six frequency packets should be observed (for the Combination Test Signal the packets will be .5, 1, 2, 3, 3.58, and 4.2 MHz). Measure the amplitude of the largest and smallest multiburst packets. Divide the largest measurement by the smallest and determine the natural Log of the result. Multiply this number by 20 to obtain the channel frequency response in dB.

As an alternative, automated test equipment such as the Hewlett Packard 8591C Spectrum Analyzer or Tektronics VM700 may be used to perform these tests. All automated measurements should be performed in accordance with the manufacture's specifications. Because some automated test measurements may be affected positively or negatively by factors not related to the test being performed, manual measurements should be made on a minimum of two channels for comparison with the automated measurements. If there is more than a 5 percent difference between the automated and manual measurements, manual measurements should be performed on each channel.

**Number of Measurements:** The measurements are to be made at the Headend on widely spaced channels with the number of test channels being a minimum of 4 channels plus one channel for each 100 MHz or fraction thereof of cable distribution system upper bandwidth. (See Specifications page viii). Additionally, Chrominance to Luminance Delay Inequality must be measured at all field test points on channel 2.

**Minimum Specifications:** All minimum specifications are listed in [ ] below. All units are listed in ( ).

Ch.	Signal Source (VITS/Gen.)	Chroma Delay [170 max.] (Nanoseconds)	Diff. Gain [-/- 20 %] (Percent)	Diff. Phase [+/- 10 Deg.] (Degrees)	Frequency Response [+/- 2 dB] (dB)
<u>2</u>	<u>Gen</u>	<u>43</u>			<u>.4</u>
<u>3</u>	<u>VITS</u>				<u>.3</u>
<u>9</u>	<u>VITS</u>				<u>.2</u>
<u>22</u>	<u>VITS</u>				<u>.3</u>
<u>26</u>	<u>VITS</u>				<u>.3</u>
<u>29</u>	<u>VITS</u>				<u>.4</u>
<u>34</u>	<u>VITS</u>				<u>.1</u>
<u>43</u>	<u>VITS</u>				<u>.1</u>
<u>49</u>	<u>VITS</u>				<u>.2</u>
<u>57</u>	<u>VITS</u>				<u>.3</u>
<u>75</u>	<u>VITS</u>				<u>.5</u>
<u>116</u>	<u>Gen</u>				<u>.4</u>

## Section 5 - Signal Leakage Test

System Name: Durham / Chapel Hill / Henderson

No specific measurements were made to "Proof" this requirement because this system complies with all FCC Specifications regarding signal leakage. Compliance with these FCC Specifications is in themselves a "Proof". Some of these requirements are as follows:

- Annually, this system files a FCC Form 320 to show compliance with signal leakage regulations. Copies of this form are kept in the system Public Inspection/FCC File and made available upon request.
- All carriers in the designated FAA bands, which exceed levels of +38.75 dBm V in the plant, have been properly filed for per 76.615.
- Copies of signal leakage logs are maintained by the system and kept on file for a period of at least 5 years per FCC rules.
- Routine Monitoring for signal leakage, substantially covering the entire plant, is completed on a quarterly basis. Copies of the monitoring program and related documentation are available for inspection upon request.

**Section 6 - Terminal Isolation Documents**

System Name: Durham / Chapel Hill / Henderson

The following tap devices are used in this system:

<u>Manufacturer</u>	<u>Model Number</u>
<u>Lindsay</u>	<u>LGT</u>
<u>Millenium</u>	<u>MET 10-1000 MHz</u>
<u>Regal</u>	<u>MPT 102W</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

As specified by the rules copies of the manufacture's specification sheets are attached for each make of tap used in this system.

**LINDSAY LGT SERIES**  
**BROAD-BAND MODULAR POWER TAP**  
**PRODUCTION PRELIMINARY SPEC**

Jan. 24, 06

*RD*

**2 PORT TYPICAL TAP LOSS PROFILE**

Nominal Tap Values 2 PORT	Coupler	SPOT FREQUENCIES MHz						
		5	50	300	450	550	750	1000
4	0	-3.5	-3.4	-3.5	-3.7	-3.8	-4.1	-4.5
8	4	-6.5	-6.7	-6.8	-7.0	-7.2	-7.7	-8.4
11	7	-10.9	-10.7	-10.7	-10.5	-10.5	-11.0	-12.5
14	10	-13.9	-13.6	-13.7	-13.7	-13.8	-14.0	-14.4
17	13	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5
20	16	-19.5	-19.8	-19.7	-19.7	-19.8	-20.2	-20.8
23	18	-22.8	-22.7	-22.7	-22.6	-22.7	-23.0	-23.5
26	22	-25.3	-25.7	-25.3	-25.7	-25.8	-25.3	-27.3
29	25	-28.8	-28.5	-28.5	-28.4	-28.5	-28.5	-30.0
32	28	-31.8	-31.4	-31.5	-31.3	-31.4	-31.2	-33.0
Tap Loss tolerance		+/- 0.5	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.5	+/- 0.7	+/- 1.0
Tap Return Loss min	dB	18	20	20	20	20	18	18
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

**4 PORT TYPICAL TAP LOSS PROFILE**

Nominal Tap Values 4 PORT	Coupler	SPOT FREQUENCIES MHz						
		5	50	300	450	550	750	1000
8	0	-6.9	-6.7	-6.9	-7.1	-7.4	-8.0	-8.7
11	4	-9.9	-9.9	-10.2	-10.4	-10.7	-11.3	-12.7
14	7	-14.3	-14.0	-14.1	-14.0	-14.1	-14.3	-16.1
17	10	-17.0	-16.3	-17.0	-17.1	-17.2	-18.0	-18.6
20	13	-19.7	-19.7	-19.3	-19.3	-20.0	-20.3	-21.2
23	16	-22.3	-22.9	-23.0	-23.0	-23.2	-23.3	-24.2
25	19	-25.9	-25.9	-25.0	-25.0	-25.3	27.0	-28.3
29	22	-28.9	-28.9	-29.0	-29.0	-29.3	-30.1	-31.1
32	25	-31.9	-31.8	-31.8	-31.7	-31.9	-32.5	-34.5
35	28	-34.8	-34.7	-34.3	-34.5	-34.8	-35.7	-37.5
Tap Loss tolerance		+/- 0.5	+/- 0.4	+/- 0.5	+/- 0.5	+/- 0.3	+/- 1.0	+/- 1.5
Tap Return Loss min	dB	18	20	20	20	20	20	20
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

**8 PORT TYPICAL TAP LOSS PROFILE**

Nominal Tap Values 8 PORT	Coupler	SPOT FREQUENCIES MHz						
		5	50	300	450	550	750	1000
11	0	-10.1	-9.9	-10.3	-10.5	-10.5	-11.3	-12.4
14	4	-13.3	-13.2	-13.5	-13.8	-14.2	-14.9	-16.3
17	7	-17.8	-17.2	-17.4	-17.5	-17.5	-18.0	-19.9
20	10	-20.5	-20.0	-20.5	-20.5	-20.7	-21.2	-22.3
23	13	-23.2	-22.9	-23.3	-23.3	-23.3	-23.5	-24.5
25	15	-25.3	-25.1	-25.3	-25.4	-25.6	-25.7	-27.9
29	19	-29.3	-29.1	-29.3	-29.5	-29.6	-30.3	-31.5
32	22	-32.5	-32.2	-32.5	-32.5	-32.7	-33.3	-34.7
35	24	-35.5	-35.2	-35.5	-35.5	-35.7	-36.3	-37.8

# LINDSAY LGT SERIES

## BROAD-BAND MODULAR POWER TAP

### PRODUCTION PRELIMINARY SPEC

Jan. 24, 96

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### 2 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 2 PORT	Coupler	SPOT FREQUENCIES MHz						
		5	50	300	450	550	750	1000
4	0	-3.5	-3.4	-3.6	-3.7	-3.8	-4.1	-4.5
8	4	-6.5	-6.7	-6.9	-7.0	-7.2	-7.7	-8.4
11	7	-10.9	-10.7	-10.7	-10.5	-10.5	-11.0	-12.5
14	10	-13.9	-13.6	-13.7	-13.7	-13.8	-14.0	-14.4
17	13	-16.5	-16.5	-16.5	-16.5	-16.5	-16.5	-16.5
20	16	-19.5	-19.5	-19.7	-19.7	-19.8	-20.2	-20.8
23	19	-22.3	-22.7	-22.7	-22.6	-22.7	-23.0	-23.5
26	22	-25.3	-25.7	-25.8	-25.7	-25.8	-26.3	-27.3
29	25	-28.8	-29.5	-29.5	-29.4	-29.5	-29.5	-30.0
32	28	-31.8	-31.4	-31.5	-31.3	-31.4	-31.5	-33.0
Tap Loss tolerance		+/- 0.5	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.6	+/- 0.7	+/- 1.0
Tap Return Loss min	dB	18	20	20	20	20	18	18
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

### 4 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 4 PORT	Coupler	SPOT FREQUENCIES MHz						
		5	50	300	450	550	750	1000
8	0	-6.9	-6.7	-6.9	-7.1	-7.4	-8.0	-8.7
11	4	-9.9	-9.9	-10.2	-10.4	-10.7	-11.5	-12.7
14	7	-14.3	-14.0	-14.1	-14.0	-14.1	-14.5	-16.1
17	10	-17.0	-16.3	-17.0	-17.1	-17.3	-18.0	-18.5
20	13	-19.7	-19.7	-19.8	-19.8	-20.0	-20.5	-21.2
23	16	-22.3	-22.9	-23.0	-23.0	-23.2	-23.5	-24.2
26	19	-25.3	-25.9	-26.0	-26.0	-26.3	-27.0	-28.3
29	22	-28.9	-29.5	-29.0	-29.0	-29.3	-30.1	-31.1
32	25	-31.9	-31.8	-31.8	-31.7	-31.9	-32.5	-34.5
35	28	-34.8	-34.7	-34.8	-34.5	-34.8	-35.7	-37.5
Tap Loss tolerance		+/- 0.5	+/- 0.4	+/- 0.5	+/- 0.5	+/- 0.3	+/- 1.0	+/- 1.5
Tap Return Loss min	dB	18	20	20	20	20	20	20
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

### 8 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 8 PORT	Coupler	SPOT FREQUENCIES MHz						
		5	50	300	450	550	750	1000
11	0	-10.1	-9.9	-10.3	-10.5	-10.5	-11.3	-12.4
14	4	-13.3	-13.2	-13.5	-13.8	-14.2	-14.9	-16.3
17	7	-17.8	-17.2	-17.4	-17.5	-17.5	-18.0	-19.9
20	10	-20.6	-20.0	-20.5	-20.5	-20.7	-21.2	-22.3
23	13	-23.2	-22.9	-23.3	-23.3	-23.3	-23.6	-24.5
26	16	-26.3	-26.1	-26.3	-26.4	-26.6	-26.8	-27.9
29	19	-29.3	-29.1	-29.3	-29.5	-29.6	-30.3	-31.5
32	22	-32.6	-32.2	-32.5	-32.5	-32.7	-33.3	-34.7
35	25	-35.5	-35.7	-35.5	-35.5	-35.5	-36.5	-38.5



MILITARY TWO-WAY Multi-tap  
Model: MGT 10-1000 MHz

Typical Specification	Freq. (MHz)	2204		2208		2211		2214		2217		2220		2223		2226		2229	
		Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)
Insertion Loss (dB)	10	3.3	0.1	7.6	0.1	10.9	0.1	13.6	0.1	15.8	0.1	18.3	0.3	21.1	0.1	24.1	0.1	27.2	0.3
	30	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.7	0.1
	50	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.8	0.1
	100	3.6	0.1	8.0	0.1	11.2	0.1	15.8	0.1	17.4	0.1	19.9	0.1	22.8	0.1	25.8	0.1	28.4	0.1
	330	3.6	0.1	8.0	0.1	11.2	0.1	15.8	0.1	17.5	0.1	19.9	0.1	22.8	0.1	25.5	0.1	28.3	0.3
	450	3.7	0.1	8.0	0.1	11.1	0.3	15.0	0.1	17.5	0.3	19.9	0.1	22.6	0.3	25.8	0.3	28.3	0.3
	550	3.7	0.1	8.0	0.1	11.0	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.5	0.3	25.6	0.3	28.3	0.3
	600	3.8	0.1	8.1	0.3	10.8	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.5	0.3	25.6	0.4	28.2	0.4
	750	3.9	0.3	8.8	0.3	10.7	0.4	14.9	0.4	17.5	0.6	20.0	0.4	22.7	0.4	25.8	0.6	28.4	0.6
	860	4.2	0.3	9.1	0.4	10.7	0.4	14.9	0.6	17.7	0.7	20.3	0.6	23.0	0.6	26.4	0.7	29.0	0.9
1000	4.8	0.4	9.8	0.6	10.9	0.5	15.2	0.9	17.7	0.9	20.8	0.7	23.7	1.0	26.9	1.0	29.9	1.2	
Return Loss (dB)	10			2.9		1.4		1.0		0.9		0.7		0.4		0.4		0.4	
	30			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	50			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	100			3.3		1.8		1.0		0.9		0.8		0.4		0.5		0.5	
	330			3.4		2.0		1.0		1.0		0.8		0.5		0.6		0.6	
	450			3.4		2.0		1.0		1.0		0.8		0.6		0.6		0.6	
	550			3.4		2.0		1.1		1.0		0.9		0.6		0.6		0.6	
	600			3.6		2.2		1.2		1.1		0.9		0.7		0.7		0.7	
	750			3.7		2.5		1.3		1.2		1.0		0.8		0.8		0.8	
	860			3.8		2.9		1.5		1.3		1.1		0.9		0.9		0.9	
1000			4.1		3.7		2.0		1.4		1.2		1.1		1.0		1.0		
Insertion Loss (dB) - C	10-29			20		20		20		24		29		30		34		34	
	30-749			22		24		25		30		33		36		38		40	
	750-899			20		22		25		29		31		34		36		38	
	900-1000			20		22		24		29		31		34		36		38	
	10-29	20		20		20		20		20		20		20		20		20	
Insertion Loss (dB) - Tap	10-29	20		20		20		20		20		20		20		20		20	
	30-749	25		25		25		25		25		25		25		25		25	
	450-749	23		23		23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20		20		20	
	10-29	17		17		17		17		17		17		17		17		17	
Insertion Loss (dB) - Out	30-599	18		18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17		17	
	900-1000	18		18		18		18		18		18		18		18		18	
	10-29	18		18		18		18		18		18		18		18		18	
Insertion Loss (dB) - Loss	30-599	18		18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17		17	
	900-1000	18		18		18		18		18		18		18		18		18	
	10-19			-64		-64		-70		-70		-70		-70		-70		-70	
Return Loss (dB) - Imp	50-599			-70		-70		-70		-70		-70		-70		-70		-70	
	600-749			-64		-64		-70		-70		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70		-70		-70	
Return Loss (dB) - min)	10-1000	-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0	
	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35	

12 Amps, 60 to 90 Vac

Model: MGT 10-1000 MHz

Typical Specification	Freq. (MHz)	2408		2411		2414		2417		2420		2423		2426		2429	
		Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)
Loss	10	7.3	0.7	10.3	0.1	14.3	0.1	15.8	0.3	19.4	0.3	22.0	0.4	24.8	0.3	27.7	0.3
	30	7.2	0.6	10.1	0.1	14.4	0.1	17.4	0.1	20.9	0.1	23.4	0.3	26.1	0.3	29.2	0.1
	50	7.1	0.6	10.1	0.1	14.4	0.1	17.8	0.1	20.9	0.1	23.5	0.3	26.1	0.3	29.3	0.1
	100	7.4	0.8	10.7	0.3	14.8	0.3	17.6	0.3	21.0	0.3	23.4	0.3	25.8	0.3	29.0	0.4
	330	7.4	0.6	10.6	0.3	14.8	0.3	17.8	0.3	21.0	0.3	23.3	0.3	25.8	0.4	29.1	0.4
	450	7.5	0.6	10.8	0.3	14.7	0.4	17.8	0.4	21.0	0.3	23.3	0.3	25.9	0.4	29.1	0.4
	550	7.6	0.6	10.6	0.3	14.6	0.8	17.5	0.4	21.0	0.3	23.3	0.3	25.9	0.4	29.1	0.4
	600	7.7	0.6	10.7	0.4	14.8	0.6	17.3	0.7	21.0	0.6	23.3	0.4	25.9	0.7	29.3	0.9
	750	7.9	0.6	11.1	0.8	14.5	0.7	18.9	0.9	20.6	0.9	23.0	0.6	25.7	0.9	29.1	1.0
	860	8.1	0.7	11.6	0.9	14.4	0.7	16.6	1.2	20.3	0.9	22.7	0.7	25.3	1.0	28.8	1.0
	1000	8.8	1.0	12.5	1.2	15.0	1.2	17.4	1.9	20.2	1.2	22.5	1.2	26.1	1.4	29.5	1.6
Insertion Loss	10			3.5		1.5		1.0		0.9		0.7		0.4		0.4	
	30			3.5		1.4		0.8		0.8		0.7		0.4		0.4	
	50			3.5		1.4		0.8		0.8		0.7		0.4		0.4	
	100			3.9		1.8		1.0		1.0		0.8		0.4		0.4	
	330			4.1		2.0		1.1		1.0		0.8		0.5		0.5	
	450			4.2		2.0		1.1		1.0		0.8		0.5		0.5	
	550			4.3		2.0		1.1		1.0		0.8		0.5		0.5	
	600			4.5		2.2		1.2		1.0		0.9		0.6		0.6	
	750			4.8		2.5		1.4		1.1		0.9		0.7		0.7	
	860			4.9		2.9		1.7		1.2		1.0		0.8		0.8	
	1000			5.1		3.7		2.2		1.3		1.1		0.9		0.9	
Isolation	10-29			20		21		22		27		30		34		34	
	30-749			24		27		30		33		36		38		40	
	750-899			22		25		29		31		34		36		38	
	900-1000			22		25		29		31		34		36		38	
Isolation to Tap (min)	10-29	20		20		20		20		20		20		20		20	
	30-449	25		25		25		25		25		25		25		25	
	450-749	23		23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20		20	
Return Loss (min)	10-29	17		17		17		17		17		17		17		17	
	30-599	18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17	
	900-1000	18		18		16		18		18		18		16		16	
Return Loss (min)	10-29	18		16		18		18		18		18		18		18	
	30-599	18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17	
	900-1000	16		18		16		16		16		18		16		16	
Mod. Amps. (min)	10-49			-64		-64		-70		-70		-70		-70		-70	
	50-599			-70		-70		-70		-70		-70		-70		-70	
	600-749			-64		-64		-70		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70		-70	
dB (min)	10-1000	-105		-105		-105		-105		-105		-105		-105		-105	
Loss (max)	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35	

Rating 12 Amos. 60 to 90 Vac

**Model : MGT. 10-1000 MHz**

Typical Specification	Freq. (MHz)	2812		2815		2818		2821		2824		2827		2830	
		Norm	(+/-)	Norm	(+/-)	Norm	(+/-)	Norm	(+/-)	Norm	(+/-)	Norm	(+/-)	Norm	(+/-)
Loss <sup>1)</sup>	10	10.6	0.3	13.8	0.1	17.6	0.4	20.0	0.4	22.3	0.4	25.2	0.3	28.8	0.4
	30	10.5	0.3	13.7	0.1	17.8	0.3	20.9	0.3	24.0	0.3	26.6	0.3	30.2	0.3
	50	10.5	0.1	13.6	0.1	17.8	0.3	20.9	0.3	24.1	0.3	26.5	0.3	30.2	0.3
	100	10.9	0.3	14.3	0.4	18.1	0.6	21.0	0.6	24.1	0.6	26.6	0.6	30.0	1.0
	330	11.1	0.4	14.3	0.6	18.2	0.8	21.1	0.6	24.2	0.7	26.6	0.6	30.0	1.2
	450	11.1	0.4	14.3	0.6	18.1	0.6	21.2	0.7	24.2	0.7	26.8	0.7	30.0	1.2
	550	11.2	0.4	14.3	0.7	18.0	0.6	21.2	0.7	24.3	0.9	26.5	0.9	29.9	1.2
	600	11.3	0.7	14.5	0.7	17.7	0.9	21.3	0.9	24.3	0.9	26.6	1.2	29.8	1.2
	750	11.7	0.9	15.2	0.9	17.8	1.3	21.2	1.4	24.2	1.5	26.7	1.5	29.7	1.5
	860	12.0	1.0	15.8	1.2	17.8	1.4	21.1	1.5	24.1	1.5	26.8	1.5	29.6	1.5
	1000	12.7	1.3	17.2	1.9	18.8	1.9	21.6	2.2	24.8	1.9	27.9	2.1	30.7	1.9
Insertion Loss <sup>2)</sup> (dB)	10			3.4		1.5		1.1		1.0		0.7		0.4	
	30			3.4		1.4		1.0		0.8		0.7		0.4	
	50			3.5		1.4		1.0		0.8		0.6		0.4	
	100			3.9		1.8		1.1		1.0		0.8		0.5	
	330			4.0		2.0		1.1		1.0		0.8		0.6	
	450			4.1		2.1		1.2		1.0		0.8		0.5	
	550			4.2		2.2		1.2		1.1		0.9		0.6	
	600			4.6		2.3		1.2		1.1		0.9		0.7	
	750			4.7		2.7		1.4		1.2		1.0		0.8	
	860			4.9		3.0		1.6		1.4		1.2		1.0	
	1000			5.0		3.3		2.0		1.5		1.3		1.1	
Isolation (dB min)	10-29			21		24		27		30		34		34	
	30-749			26		30		32		34		38		40	
	750-899			25		23		30		32		36		38	
	900-1000			24		23		28		33		34		36	
Isolation to Tap (dB min)	10-29	20		20		20		20		20		20		20	
	30-449	25		25		25		25		25		25		25	
	450-749	23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20	
Return Loss (dB min)	10-29	17		17		17		17		17		17		17	
	30-599	18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16	
Return Loss (dB min)	10-29	18		18		18		18		18		18		18	
	30-599	18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16	
Mod. J Ampr. (dB min)	10-49			-64		-64		-70		-70		-70		-70	
	50-599			-70		-70		-70		-70		-70		-70	
	600-749			-64		-64		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70	
(dB min)	10-1000	-105		-105		-105		-105		-105		-105		-105	
Reflection Coefficient (max)	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35	

12 Amos. 60 to 90 Vac

MILENIUM Two-Way Multi-tap  
Model: MGT 10-1000 MHz

Typical Specification	Freq. (MHz)	2204		2208		2211		2214		2217		2220		2223		2226		2229	
		Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)
Return Loss	10	3.3	0.1	7.6	0.1	10.9	0.1	13.8	0.1	15.3	0.1	18.3	0.3	21.1	0.3	24.1	0.1	27.2	0.3
	30	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.7	0.1
	50	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.7	0.1
	100	3.6	0.1	8.0	0.1	11.2	0.1	15.0	0.1	17.4	0.1	19.9	0.1	22.6	0.1	25.8	0.1	28.4	0.1
	330	3.8	0.1	8.0	0.1	11.2	0.1	15.0	0.1	17.5	0.1	19.9	0.1	22.6	0.1	25.5	0.1	28.3	0.3
	450	3.7	0.1	8.0	0.1	11.1	0.3	15.0	0.1	17.5	0.3	19.9	0.1	22.6	0.3	25.6	0.3	28.3	0.3
	550	3.7	0.1	8.0	0.1	11.0	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.5	0.3	25.8	0.3	28.3	0.3
	600	3.8	0.1	8.1	0.3	10.8	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.5	0.3	25.8	0.4	28.2	0.4
	750	3.9	0.3	8.8	0.3	10.7	0.4	14.9	0.4	17.6	0.6	20.0	0.4	22.7	0.4	25.8	0.5	28.4	0.5
	860	4.2	0.3	9.1	0.4	10.7	0.4	14.9	0.6	17.7	0.7	20.3	0.5	23.0	0.6	26.4	0.7	29.0	0.9
	1000	4.6	0.4	9.8	0.5	10.9	0.5	15.1	0.9	17.7	0.9	20.5	0.7	23.7	1.0	26.9	1.0	29.9	1.2
Insertion Loss	10			2.9		1.4		1.0		0.9		0.7		0.4		0.4		0.4	
	30			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	50			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	100			3.3		1.8		1.0		0.9		0.8		0.4		0.5		0.5	
	330			3.4		2.0		1.0		1.0		0.8		0.6		0.5		0.5	
	450			3.4		2.0		1.0		1.0		0.8		0.6		0.5		0.5	
	550			3.4		2.0		1.1		1.0		0.8		0.6		0.5		0.5	
	600			3.6		2.2		1.2		1.1		0.9		0.6		0.5		0.5	
	750			3.7		2.3		1.3		1.2		0.9		0.7		0.7		0.7	
	860			3.8		2.3		1.5		1.2		1.0		0.8		0.8		0.8	
	1000			4.1		3.7		2.0		1.4		1.1		0.9		0.9		0.9	
Isolation	10-29			20		20		20		24		29		30		34		34	
	30-749			22		24		25		30		33		36		38		40	
	750-899			20		22		25		28		31		34		36		38	
	900-1000			20		22		24		28		31		34		36		38	
Isolation to Tap (min)	10-29	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	30-449	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	450-749	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	750-1000	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Return Loss and Cut (min)	10-29	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	30-599	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	600-899	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	900-1000	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Insertion Loss (min)	10-29	18	18	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	30-599	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	600-899	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	900-1000	18	18	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Modulation Amps. (min)	10-49	-64	-64	-64	-64	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
	50-599	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600-749	-64	-64	-64	-64	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
	750-1000	-60	-60	-60	-60	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
Return Loss (min)	10-1000	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0	-105.0
Return Loss (min)	10-1000	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35

12 Amos. 60 to 90 Vac

WILMINGTON

**REGAL**

**Nominal Performance Specifications**

WT102-	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
Nominal Tap Value (dB)											
5 MHz	3.40	7.20	10.34	14.50	16.50	20.60	22.50	25.60	28.50	31.60	34.70
50 MHz	3.40	7.20	10.70	14.50	16.50	20.60	22.50	25.70	28.50	31.60	34.70
300 MHz	3.50	7.20	10.78	14.40	16.50	20.60	22.50	25.80	28.70	31.90	35.20
400 MHz	3.60	7.20	10.70	14.20	16.60	20.60	22.50	25.90	28.90	32.30	35.30
500 MHz	3.50	7.40	10.68	14.20	16.70	21.90	22.60	26.10	28.90	32.50	35.70
600 MHz	3.60	7.40	10.74	13.90	16.70	21.00	22.90	26.10	29.10	32.50	35.70
700 MHz	3.70	7.50	10.72	13.50	16.80	21.10	22.90	26.00	29.10	32.50	35.60
800 MHz	3.80	7.50	10.76	13.20	16.80	21.20	22.90	25.80	28.90	32.50	35.50
900 MHz	3.80	7.90	10.90	12.90	16.90	21.10	23.00	25.50	28.60	32.50	35.30
1000 MHz	4.20	8.50	11.24	13.00	17.30	21.40	23.90	25.50	28.50	32.40	35.40
Nominal Insertion Loss (in/out) (dB)											
5 MHz	T	1.40	1.30	1.30	0.70	0.40	0.40	0.40	0.40	0.40	0.40
50 MHz	T	1.40	1.40	0.50	0.70	0.40	0.20	0.20	0.20	0.20	0.20
300 MHz	T	1.50	1.50	1.20	0.70	0.40	0.40	0.50	0.50	0.50	0.50
400 MHz	T	1.50	1.50	1.10	0.70	0.40	0.40	0.50	0.50	0.50	0.50
500 MHz	T	1.80	1.80	1.20	1.20	0.50	0.70	0.70	0.70	0.70	0.70
600 MHz	T	4.00	2.00	1.20	0.90	0.90	0.70	0.70	0.70	0.70	0.70
700 MHz	T	4.20	2.20	1.20	1.20	0.90	0.90	0.90	0.70	0.90	0.90
800 MHz	T	4.20	2.50	2.50	1.20	1.00	0.90	0.90	0.90	0.90	0.90
900 MHz	T	4.20	2.50	2.10	1.40	1.10	1.10	1.10	1.00	1.10	1.10
1000 MHz	T	4.50	2.00	2.50	1.50	1.40	1.10	1.20	1.10	1.20	1.40

**Recommended Torque**

Housing Closure Screws	20-30 in. lb.
Center Conductor Seizure	15-20 in. lb.
Port Plugs	10-15 ft. lb.
Connector Pull-Out	100 lb. minimum

Ordering Information on Pages H57-H59

Specifications subject to change without notice

EAST: Norcross, GA 800-433-3765 | EAST: Rockaway, NJ 800-458-4524 | MIDWEST: Rolling Meadows, IL 800-428-7536  
 SOUTHWEST: Irving, TX 800-643-2288 | WEST: Santa Ana, CA 800-227-2869



TEL-AIRE SUPPLY



# 1GHz Two Way Wide Body Tap

## REGAL

Frequency (MHz)	5-10	10-20	20-40	40-500	500-600	600-900	900-1000
Isolation (dB minimum) Tap to Tap	18	23	25	25	23	21	19
Return Loss (dB minimum)	15	18	20	18	17	16	15
Tap Loss Tolerance							
4.0 to 29.0 dB	±1.0	±1.0	±1.0	±1.0	±1.0	±1.7	±2.0
32.0 to 35.0 dB	±1.0	±1.0	±1.0	±1.0	±1.5	±2.0	±2.0
EMI Shielding (dB minimum)	100	100	100	100	100	100	100
Hum Modulation 7Amps (dB minimum)	65	65	65	65	65	65	65
Power Rating	7 Amps ACDC, 50-50 Volt, 1-60 Hz						

### Worst Case Performance Specifications

EMT102-	4.0	8.0	11.0	14.0	17.0	20.0	23.0	25.0	29.0	32.0	35.0
	LOW GREEN	BLACK	RED	BLUE	BROWN	ORANGE	DR	ORANGE-RED	PURPLE	RED	GREEN
Tap Loss (dB maximum)											
3 MHz	T	2.5	1.7	1.2	0.7	0.5	0.4	0.4	0.4	0.4	0.4
10 MHz	T	2.5	1.5	1.1	0.7	0.5	0.4	0.4	0.4	0.4	0.4
30 MHz	T	2.7	1.3	1.2	0.8	0.5	0.5	0.5	0.5	0.5	0.5
60 MHz	T	2.8	1.3	1.4	1.0	0.6	0.5	0.5	0.5	0.5	0.5
100 MHz	T	2.9	2.1	1.5	1.0	0.7	0.7	0.7	0.7	0.7	0.7
150 MHz	T	4.2	2.2	1.5	1.1	0.7	0.7	0.7	0.7	0.7	0.7
200 MHz	T	4.5	2.4	1.3	1.3	0.9	0.8	0.8	0.8	0.8	0.8
300 MHz	T	4.6	2.5	2.1	1.4	1.0	0.9	0.9	0.9	0.9	0.9
450 MHz	T	4.7	2.3	2.4	1.5	1.1	1.1	1.1	1.1	1.1	1.1
600 MHz	T	4.8	2.1	2.9	1.8	1.4	1.4	1.4	1.4	1.4	1.4
To-Tap Isolation (dB minimum)											
3 MHz	T	18	18	20	20	20	15	18	40	42	45
10 MHz	T	25	25	20	20	20	17	40	42	44	45
30 MHz	T	25	25	23	20	20	15	35	42	44	45
60 MHz	T	23	23	21	20	20	13	34	42	44	45
100 MHz	T	22	22	20	20	20	13	33	40	42	44
150 MHz	T	21	21	20	20	27	12	30	39	41	43
200 MHz	T	19	19	19	20	25	12	28	38	40	42
300 MHz	-T	18	18	18	20	23	12	25	37	39	41

These values are typical without notes

# 1 GHz Two Way Wide Body Tap

continued

REG-AL

## Typical Performance Specifications

Frequency (MHz)	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
Terminal Tap Value (dB)											
1 MHz	3.40	7.20	10.34	14.50	18.50	20.60	22.50	25.60	28.50	31.50	34.70
2 MHz	3.40	7.20	10.70	14.50	18.50	20.60	22.60	25.70	28.50	31.60	34.70
3 MHz	3.50	7.20	10.78	14.40	18.50	20.60	22.60	25.80	28.70	31.90	35.20
4 MHz	3.60	7.20	10.70	14.20	18.60	20.60	22.60	25.90	28.90	32.00	35.30
5 MHz	3.50	7.40	10.68	14.20	18.70	21.80	22.50	26.10	28.90	32.60	35.70
6 MHz	3.60	7.40	10.74	13.30	18.70	21.00	22.90	26.10	29.10	32.50	35.70
7 MHz	3.70	7.50	10.72	13.50	18.80	21.10	22.90	26.00	29.10	32.50	35.60
8 MHz	3.80	7.50	10.76	13.30	18.80	21.20	22.90	25.80	28.90	32.50	35.50
9 MHz	3.80	7.50	10.80	12.90	18.80	21.10	22.00	25.50	28.50	32.50	35.30
10 MHz	4.20	8.50	11.24	13.00	17.20	21.40	22.80	25.50	28.50	32.40	35.40
Terminal Insertion Loss (in/out) (dB)											
1 MHz	T	3.40	1.50	1.00	0.70	0.40	0.40	0.40	0.40	0.40	0.40
2 MHz	T	3.40	1.40	0.90	0.70	0.40	0.20	0.20	0.20	0.20	0.20
3 MHz	T	3.50	1.50	1.00	0.70	0.40	0.40	0.50	0.50	0.50	0.50
4 MHz	T	3.50	1.50	1.10	0.70	0.40	0.40	0.50	0.50	0.50	0.50
5 MHz	T	3.80	1.30	1.20	1.00	0.50	0.70	0.70	0.70	0.70	0.70
6 MHz	T	4.00	2.00	1.30	0.90	0.30	0.70	0.70	0.70	0.70	0.70
7 MHz	T	4.20	2.20	1.50	1.00	0.50	0.30	0.30	0.70	0.80	0.80
8 MHz	T	4.20	2.50	2.00	1.20	1.20	0.50	0.50	0.30	0.50	0.50
9 MHz	T	4.40	2.50	2.10	1.40	1.10	1.10	1.10	1.00	1.10	1.10
10 MHz	T	4.50	3.00	2.50	1.50	1.40	1.10	1.20	1.10	1.20	1.40

### Recommended Torque

Tap Closure Screws	20-30 in. lb.
Conductor Seizure	15-20 in. lb.
Wires	10-15 ft. lb.
Conductor Pull-Out	100 lb. minimum

Ordering Information on Pages H57-H59

Values subject to change without notice



Two way wide Body Tap  
 inued

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Performance Specifications

Tap Value (dB)	4.0	8.0	11.0	14.0	17.0	20.0	23.0	25.0	29.0	32.0	35.0
1.40	7.20	10.34	14.50	16.50	20.60	22.50	25.60	28.50	31.50	34.70	
1.40	7.20	10.70	14.50	16.50	20.60	22.50	25.70	28.50	31.50	34.70	
1.50	7.20	10.78	14.40	16.50	20.60	22.60	25.80	28.70	31.90	35.20	
1.60	7.20	10.70	14.20	16.50	20.60	22.60	25.90	28.90	32.30	35.30	
1.50	7.40	10.68	14.20	16.70	21.80	22.90	26.10	28.90	32.50	35.70	
1.60	7.40	10.74	13.80	16.70	21.00	22.90	26.10	29.10	32.50	35.70	
1.70	7.50	10.72	13.60	16.30	21.10	22.90	26.00	29.10	32.50	35.60	
1.80	7.50	10.76	13.20	16.30	21.20	22.90	25.90	28.90	32.50	35.50	
1.90	7.90	10.90	12.30	16.30	21.10	23.00	25.90	28.50	32.50	35.20	
4.20	3.50	11.24	13.00	17.20	21.40	23.20	25.50	28.50	32.40	35.40	
T	1.40	1.50	1.00	0.70	0.40	0.40	0.40	0.40	0.40	0.40	0.40
T	1.40	1.40	0.90	0.70	0.40	0.40	0.40	0.40	0.40	0.40	0.40
T	1.50	1.50	1.20	0.70	0.40	0.40	0.50	0.50	0.50	0.50	0.50
T	1.50	1.50	1.10	0.70	0.40	0.40	0.50	0.50	0.50	0.50	0.50
T	1.50	1.30	1.20	1.20	0.50	0.70	0.70	0.70	0.70	0.70	0.70
T	4.00	2.00	1.20	0.90	0.90	0.70	0.70	0.70	0.70	0.70	0.70
T	4.20	2.20	1.50	1.20	0.90	0.90	0.90	0.70	0.90	0.90	0.90
T	4.20	2.50	2.00	1.20	1.00	0.90	0.90	0.90	0.90	0.90	0.90
T	4.40	2.50	2.10	1.40	1.10	1.10	1.10	1.20	1.10	1.10	1.10
T	4.50	3.00	2.50	1.50	1.40	1.10	1.20	1.10	1.20	1.20	1.40

Return Loss (in/out) (dB)

torque	20-30 in. lb.
Screws	15-20 in. lb.
Seizure	10-15 ft. lb.
	100 lb. minimum

Ordering Information on Pages H57-H59

change without notice





## Section 7 - EAS Logs

System Name: DURHAM, Chapel Hill, Hillsboro,

Tech who compiled this information: Bob HERMANN

Date: 8/12/05

Systems with less than 10,000 customers are not currently required to maintain EAS equipment.

Does this system have EAS Equipment in place:  Yes  No

If no, why: \_\_\_\_\_

Is there a copy of the EAS Cable Handbook on site at the control point or Principal Headend AND in the system's public inspection file:  Yes  No

(A copy can be down loaded from <http://www.fcc.gov/eb/eas/handbook.htm>):

Equipment Setup: DURHAM MASTER HEAD END EASY Plus

State Code: 37 - North Carolina

County Code(s): DURHAM 063

GRANVILLE 077

CHATHAM 037

ORANGE 135

VANCE 181

WARREN 185

FRANKLIN 069

Monitoring Assignments (Name/Frequency)

Receiver 1: WGDR-FM 94.7 MHz

Receiver 2: WDCB-FM 105.1 MHz

Receiver 3: WXL 58 162.550 MHz

Receiver 4: \_\_\_\_\_ MHz

Receiver 5: \_\_\_\_\_ MHz

Receiver 6: \_\_\_\_\_ MHz

Receiver 7: \_\_\_\_\_ MHz

Receiver 8: \_\_\_\_\_ MHz

Receiver 9: \_\_\_\_\_ MHz

Receiver 10: \_\_\_\_\_ MHz

Does the equipment offer dial up access/audio override capability for the local franchis authority or some other agency:  Yes  No.

Event Codes currently being monitored (verify each code entered in the EAS controller):

Required by FCC Rules

- EAN Emergency Action Notificaiton
- EAT Emergency Action Termination
- NIC National Information Center
- NPT National Periodic Test
- RMT Required Monthly Test
- RWT Required Weekly Test

Required by NC State Plan

- CAE Child Abduction Emergency
- CEM Civil Emergency Message
- DMO Practice/Demo Warning
- EVI Evacuate Immediate
- FFW Flash Flood Watch
- HUW Hurrican Warning
- NUW Neclear Power Plant Warning
- TOA Tarnado Watch
- TOR Tornado Warning

Indicate Any other Codes being Monitored

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



iglass NETWORKS

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EAS Logs

Operational Area: Raleigh-Durham-Wilson-1

From: Jan 01 2005

To: Jun 30 20

Comment added Mon 03 Jan 2005 07:55:04 AM EST by patrick.staley@twcable.com: \*\*\*\*\*No RT logged from WRDU\*\*\*\*\*

Comment added Fri 07 Jan 2005 08:59:21 AM EST by patrick.staley@twcable.com: Discovered broken cable to probe. Repaired 1/7.

01/07/05 11:26:27 EST Receive Log: EAS Message Received from Channel: 1
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015
-0071630- WQDR -
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC - Johnston NC - Harnett NC - Lee NC. Effective Until 01/07/05 11:45:00 EST.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 01/07/05 11:30:00 EST
Expiration Time: 01/07/05 11:45:00 EST
Status: Message Logged, User will Manually Send Message

Acknowledged Fri 03:10:02 PM EST patrick.staley@tw

Acknowledged Fri 03:10:02 PM EST patrick.staley@tw

Add Commer

01/07/05 11:26:33 EST Receive Log: EOM Received from Channel: 1

Comment added Mon 10 Jan 2005 08:07:12 AM EST by patrick.staley@twcable.com: \*\*\*\*\*All sources logged (paper logs available).\*\*\*\*\*

01/10/05 21:00:35 EST Receive Log: EOM Received from Channel: 3

Add Commer

Acknowledge

01/11/05 02:27:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS
EAS Header: ZCZC-EAS-RWT-037063+0015-0110727-TWC -
AS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 01/11/05 02:27:00 EST
Expiration Time: 01/11/05 02:42:00 EST
Status: Forwarding Automatic RWT Message

Acknowledged Tu 09:06:01 AM EST patrick.staley@tw

Acknowledged Tu 09:06:01 AM EST patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/11/05 02:27:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
01/12/05 11:44:19 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151+0015-0121635-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 01/12/05 11:35:00 EST  
Expiration Time: 01/12/05 11:50:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
08:35:56 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/12/05 11:45:44 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/13/05 03:12:37 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-0130816- WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/13/05 03:16:00 EST  
Expiration Time: 01/13/05 03:31:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
08:36:01 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/13/05 03:12:43 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/13/05 03:16:01 EST Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
-0130818-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/13/05 03:18:00 EST  
Expiration Time: 01/13/05 03:33:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
08:36:06 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/13/05 03:16:07 EST Receive Log: EOM Received from Channel: 4

\*  
\*\*\*\*\*  
01/13/05 23:34:34 EST Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
-037085-037105-037125-037145-037185-037181+0100-0140430-WDCG -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test

Acknowledged Fri  
08:36:11 AM EST  
patrick.staley@tw

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/13/05 23:30:00 EST  
Expiration Time: 01/14/05 00:30:00 EST  
Status: Message Logged, User will Manually Send Message

Add Commer

\*\*\*\*\*  
01/13/05 23:34:37 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
01/13/05 23:59:21 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-TOA-037001-037037-037063-037069-037077-037105-037135  
-037145-037151-037181-037183-037185+0530-0140456-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Tornado Watch  
Originator: National Weather Service  
Event: Tornado Watch  
Origination Time: 01/13/05 23:56:00 EST  
Expiration Time: 01/14/05 05:26:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 00:00:30 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 00:00:36 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-TOA-037001-037037-037063-037069-037077-037105-037135  
-037145-037151-037181-037183-037185+0530-0140456- WQDR -  
EAS Translation: The National Weather Service has issued a Tornado Watch  
Originator: National Weather Service  
Event: Tornado Watch  
Origination Time: 01/13/05 23:56:00 EST  
Expiration Time: 01/14/05 05:26:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 00:01:39 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 00:11:54 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 00:12:51 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 00:13:56 EST Receive Log: EOM Received from Channel: 3

Add Commer

Acknowledge

\*\*\*\*\*  
01/14/05 00:13:59 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 00:14:12 EST Receive Log: EAS Message Received from Channel: 3  
EAS Header: ZCZC-WXR-TOA-037063-037069-037085-037183+0530-0140456-WRDU  
EAS Translation: The National Weather Service has issued a Tornado Watch  
Originator: National Weather Service  
Event: Tornado Watch  
Origination Time: 01/13/05 23:56:00 EST  
Expiration Time: 01/14/05 05:26:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 00:15:09 EST Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
01/14/05 00:16:15 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 02:12:38 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037151+0045-0140709-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 02:09:00 EST  
Expiration Time: 01/14/05 02:54:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 02:14:08 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 04:10:45 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037037+0030-0140907-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 04:07:00 EST  
Expiration Time: 01/14/05 04:37:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:12:02 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 04:12:05 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037037+0030-0140907- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 04:07:00 EST  
Expiration Time: 01/14/05 04:37:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:13:15 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 04:30:57 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037135+0045-0140928-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 04:28:00 EST  
Expiration Time: 01/14/05 05:13:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:32:08 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 04:32:11 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037135+0045-0140928- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 04:28:00 EST  
Expiration Time: 01/14/05 05:13:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:33:15 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 04:37:12 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-TOR-037135+0030-0140934-KRAH/NWS-  
S Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Orange NC. Effective Until 01/14/05  
05:04:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:34:00 EST  
Expiration Time: 01/14/05 05:04:00 EST

Add Commer  
Acknowledge

Status: Message Logged, External Controller will Send Message

\*\*\*\*\*  
01/14/05 04:37:30 EST Received Attention Tone on Channel 5  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
01/14/05 04:37:30 EST Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-WXR-TOR-037135+0030-0140934-WDCG -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Orange NC. Effective Until 01/14/05  
05:04:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:34:00 EST  
Expiration Time: 01/14/05 05:04:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
01/14/05 04:37:45 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-TOR-037135+0030-0140930- WQDR -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Orange NC. Effective Until 01/14/05  
05:00:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:30:00 EST  
Expiration Time: 01/14/05 05:00:00 EST  
Status: Message Logged, System Busy

\*\*\*\*\*  
01/14/05 04:38:10 EST Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*  
01/14/05 04:38:18 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 04:38:18 EST Received Audio Message on Channel 5  
Audio Message Length: 047 seconds. [E]

Add Comment  
Acknowledge

\*\*\*\*\*  
01/14/05 04:38:19 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-WXR-TOR-037135+0030-0140934-TWC -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Orange NC. Effective Until 01/14/05  
05:04:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:34:00 EST  
Expiration Time: 01/14/05 05:04:00 EST  
Status: Forwarding Message

Add Comment  
Acknowledge

\*\*\*\*\*  
1/14/05 04:38:25 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*

01/14/05 04:38:30 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:38:39 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:50:23 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-TOR-037063+0015-0140945- WQDR -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Durham NC. Effective Until 01/14/05  
05:00:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:45:00 EST  
Expiration Time: 01/14/05 05:00:00 EST  
Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:50:34 EST Received Attention Tone on Channel 1  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
01/14/05 04:50:48 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 04:50:48 EST Received Audio Message on Channel 1  
Audio Message Length: 013 seconds. [P]

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:50:49 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-WXR-TOR-037063+0015-0140945-TWC -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Durham NC. Effective Until 01/14/05  
05:00:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:45:00 EST  
Expiration Time: 01/14/05 05:00:00 EST  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
1/14/05 04:50:54 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
/14/05 04:51:08 EST Receive Log: EOM Received from Channel: 2

Add Commer



Acknowledge

\*\*\*\*\*  
01/14/05 04:51:09 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:51:24 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-TOR-037063+0015-0140948-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Durham NC. Effective Until 01/14/05  
05:03:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:48:00 EST  
Expiration Time: 01/14/05 05:03:00 EST  
Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 04:51:42 EST Receive Log: EAS Message Received from Channel: 3  
EAS Header: ZCZC-WXR-TOR-037063+0015-0140948-WRDU -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Durham NC. Effective Until 01/14/05  
05:03:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:48:00 EST  
Expiration Time: 01/14/05 05:03:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
01/14/05 04:51:42 EST Received Attention Tone on Channel 5  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
01/14/05 04:51:45 EST Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-WXR-TOR-037063+0015-0140948-WDCG -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Durham NC. Effective Until 01/14/05  
05:03:00 EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 04:48:00 EST  
Expiration Time: 01/14/05 05:03:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
01/14/05 04:51:55 EST Error, No Response from External Controller

\*\*\*\*\*  
01/14/05 04:52:33 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 04:52:33 EST Received Audio Message on Channel 5  
Audio Message Length: 050 seconds. 5.1

Add Commer

Acknowledge

\*\*\*\*\*  
 01/14/05 04:52:34 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-WXR-TOR-037063+0015-0140948-TWC -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Durham NC. Effective Until 01/14/05  
 05:03:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 04:48:00 EST  
 Expiration Time: 01/14/05 05:03:00 EST  
 Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 04:52:37 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-TOR-037063+0015-0140948- WQDR -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Durham NC. Effective Until 01/14/05  
 05:03:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 04:48:00 EST  
 Expiration Time: 01/14/05 05:03:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 01/14/05 04:52:52 EST Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
 01/14/05 04:52:53 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 01/14/05 04:53:27 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 01/14/05 04:53:38 EST Receive Log: EOM Received from Channel: 1

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 04:56:10 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-TOR-037077-037145+0045-0140953-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Granville NC - Person NC. Effective Until  
 01/14/05 05:38:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 04:53:00 EST  
 Expiration Time: 01/14/05 05:38:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 04:56:28 EST Received Attention Tone on Channel 5  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 01/14/05 04:56:33 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-WXR-TOR-037077-037145+0045-0140953-WDCG -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Granville NC, - Person NC. Effective Until  
 01/14/05 05:38:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 04:53:00 EST  
 Expiration Time: 01/14/05 05:38:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 01/14/05 04:57:22 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 01/14/05 04:57:22 EST Received Audio Message on Channel 5  
 Audio Message Length: 053 seconds.

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 04:57:24 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-WXR-TOR-037077-037145+0045-0140953-TWC -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Granville NC - Person NC. Effective Until  
 01/14/05 05:38:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 04:53:00 EST  
 Expiration Time: 01/14/05 05:38:00 EST  
 Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 04:57:26 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-TOR-037077-037145+0045-0140953- WQDR -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Granville NC - Person NC. Effective Until  
 01/14/05 05:38:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 04:53:00 EST  
 Expiration Time: 01/14/05 05:38:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 01/14/05 04:57:29 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 01/14/05 04:57:45 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 04:58:32 EST Receive Log: EOM Received from Channel: 1

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:09:49 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-TOA-037063-037069-037077-037101-037181-037183-037185  
 +0600-0141006-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Tornado Watch for  
 the following counties: Durham NC - Franklin NC - Granville NC - Johnston  
 NC - Vance NC - Wake NC - Warren NC. Effective Until 01/14/05 11:06:00  
 EST.  
 Originator: National Weather Service  
 Event: Tornado Watch  
 Origination Time: 01/14/05 05:06:00 EST  
 Expiration Time: 01/14/05 11:06:00 EST  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:10:55 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 01/14/05 05:11:00 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-TOA-037063-037069-037077-037101-037181-037183-037185  
 +0600-0141006-WQDR -  
 EAS Translation: The National Weather Service has issued a Tornado Watch for  
 the following counties: Durham NC - Franklin NC - Granville NC - Johnston  
 NC - Vance NC - Wake NC - Warren NC. Effective Until 01/14/05 11:06:00  
 EST.  
 Originator: National Weather Service  
 Event: Tornado Watch  
 Origination Time: 01/14/05 05:06:00 EST  
 Expiration Time: 01/14/05 11:06:00 EST  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:11:59 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 01/14/05 05:21:05 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-WXR-TOA-037063-037069-037077-037101-037181-037183-037185  
 +0600-0141006-WDCG -  
 EAS Translation: The National Weather Service has issued a Tornado Watch for  
 the following counties: Durham NC - Franklin NC - Granville NC - Johnston  
 NC - Vance NC - Wake NC - Warren NC. Effective Until 01/14/05 11:06:00  
 EST.  
 Originator: National Weather Service  
 Event: Tornado Watch  
 Origination Time: 01/14/05 05:06:00 EST  
 Expiration Time: 01/14/05 11:06:00 EST  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:22:10 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
01/14/05 05:23:00 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:24:13 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:28:10 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037181+0045-0141025-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Vance NC. Effective  
Until 01/14/05 06:10:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 05:25:00 EST  
Expiration Time: 01/14/05 06:10:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:29:41 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 05:29:45 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037181+0045-0141025- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Vance NC. Effective  
Until 01/14/05 06:10:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 05:25:00 EST  
Expiration Time: 01/14/05 06:10:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:30:19 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037183+0045-0141027-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Wake NC. Effective  
Until 01/14/05 06:12:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 05:27:00 EST  
Expiration Time: 01/14/05 06:12:00 EST  
Status: Event Not Selected by User

\*\*\*\*\*  
01/14/05 05:31:09 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 05:31:47 EST Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:31:51 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037183+0045-0141027- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Wake NC. Effective  
 Until 01/14/05 06:12:00 EST.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 01/14/05 05:27:00 EST  
 Expiration Time: 01/14/05 06:12:00 EST  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:32:31 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 01/14/05 05:36:54 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-TOR-037183+0015-0141035- WQDR -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Wake NC. Effective Until 01/14/05 05:50:00  
 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 05:35:00 EST  
 Expiration Time: 01/14/05 05:50:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 05:37:05 EST Received Attention Tone on Channel 1  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 01/14/05 05:37:09 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-WXR-TOR-037183+0015-0141035-WDCG -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Wake NC. Effective Until 01/14/05 05:50:00  
 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 05:35:00 EST  
 Expiration Time: 01/14/05 05:50:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 01/14/05 05:37:13 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-TOR-037183+0030-0141034-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Wake NC. Effective Until 01/14/05 06:04:00  
 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 05:34:00 EST  
 Expiration Time: 01/14/05 06:04:00 EST  
 Status: Message Logged, System Busy

\*\*\*\*\*

01/14/05 05:37:14 EST Receive Log: EOM Received from Channel: 1

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:37:14 EST Received Audio Message on Channel 1  
Audio Message Length: 008 seconds. P.1

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:37:15 EST Receive Log: EAS Message Received from Channel: 3  
EAS Header: ZCZC-WXR-TOR-037183+0015-0141035-WRDU -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Wake NC. Effective Until 01/14/05 05:50:00  
EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 05:35:00 EST  
Expiration Time: 01/14/05 05:50:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
01/14/05 05:37:16 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-WXR-TOR-037183+0015-0141035-TWC -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Wake NC. Effective Until 01/14/05 05:50:00  
EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 05:35:00 EST  
Expiration Time: 01/14/05 05:50:00 EST  
Status: Forwarding Message

\*\*\*\*\*  
01/14/05 05:37:21 EST Transmit Log: EOM Initiated by an External Controller  
\*\*\*\*\*  
01/14/05 05:37:35 EST Receive Log: EOM Received from Channel: 2  
\*\*\*\*\*  
01/14/05 05:37:36 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:37:37 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:37:39 EST Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
01/14/05 05:38:23 EST Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:38:26 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-TOR-037183+0030-0141034- WQDR -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Wake NC. Effective Until 01/14/05 06:04:00  
EST.  
Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 05:34:00 EST  
Expiration Time: 01/14/05 06:04:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:39:29 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 05:50:16 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037069-037185+0045-0141047-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Franklin NC - Warren  
NC. Effective Until 01/14/05 06:32:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 05:47:00 EST  
Expiration Time: 01/14/05 06:32:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:51:37 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 05:51:41 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037069-037185+0045-0141047- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Franklin NC - Warren  
NC. Effective Until 01/14/05 06:32:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 01/14/05 05:47:00 EST  
Expiration Time: 01/14/05 06:32:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 05:52:54 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
01/14/05 06:04:34 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-TOR-037185+0015-0141101-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Tornado Warning

Add Commer  
Acknowledge



for the following counties: Warren NC. Effective Until 01/14/05  
06:16:00 EST.

Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 06:01:00 EST  
Expiration Time: 01/14/05 06:16:00 EST  
Status: Message Logged, External Controller will Send Message.

\*\*\*\*\*  
01/14/05 06:04:52 EST Received Attention Tone on Channel 5  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
01/14/05 06:05:02 EST Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-WXR-TOR-037185+0015-0141101-WDCG -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Warren NC. Effective Until 01/14/05  
06:16:00 EST.

Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 06:01:00 EST  
Expiration Time: 01/14/05 06:16:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
01/14/05 06:05:38 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/14/05 06:05:38 EST Received Audio Message on Channel 5  
Audio Message Length: 045 seconds.

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 06:05:40 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-WXR-TOR-037185+0015-0141101-TWC -  
EAS Translation: The National Weather Service has issued a Tornado Warning  
for the following counties: Warren NC. Effective Until 01/14/05  
06:16:00 EST.

Originator: National Weather Service  
Event: Tornado Warning  
Origination Time: 01/14/05 06:01:00 EST  
Expiration Time: 01/14/05 06:16:00 EST  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 06:05:45 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
01/14/05 06:06:00 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
01/14/05 06:32:11 EST Receive Log: EAS Message Received from Channel: 3

Acknowledged Fri

EAS Header: ZCZC-EAS-RWT-037195-037191-037131-037127-037083-037065-037125  
 -037135-037063-037183-037069-037101-037181+0100-0141128-WRDU -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wilson NC - Wayne NC -  
 Northampton NC - Nash NC - Halifax NC - Edgecombe NC - Moore NC - Orange  
 NC - Durham NC - Wake NC - Franklin NC - Johnston NC - Vance NC.  
 Effective Until 01/14/05 07:28:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 01/14/05 06:28:00 EST  
 Expiration Time: 01/14/05 07:28:00 EST  
 Status: Message Logged, User will Manually Send Message

08:37:47 AM EST  
 patrick.staley@tw  
 Acknowledged Fri  
 08:37:47 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 01/14/05 06:32:14 EST Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
 01/14/05 09:58:34 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-WXR-TOR-037013-037147+0045-0141453-WERO/FM -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Beaufort NC - Pitt NC. Effective Until  
 01/14/05 10:38:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 09:53:00 EST  
 Expiration Time: 01/14/05 10:38:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 09:58:46 EST Received Attention Tone on Channel 6  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 01/14/05 09:59:52 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 01/14/05 09:59:52 EST Received Audio Message on Channel 6  
 Audio Message Length: 064 seconds. [P.L.]

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 09:59:53 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-WXR-TOR-037013-037147+0045-0141453-TWC -  
 EAS Translation: The National Weather Service has issued a Tornado Warning  
 for the following counties: Beaufort NC - Pitt NC. Effective Until  
 01/14/05 10:38:00 EST.  
 Originator: National Weather Service  
 Event: Tornado Warning  
 Origination Time: 01/14/05 09:53:00 EST  
 Expiration Time: 01/14/05 10:38:00 EST  
 Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/14/05 09:59:58 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 01/14/05 20:52:26 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-FLW-037037+0600-0150148-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Flood Warning for  
 the following counties: Chatham NC. Effective Until 01/15/05 02:48:00  
 EST.

Add Commer  
Acknowledge

Originator: National Weather Service  
 Event: Flood Warning  
 Origination Time: 01/14/05 20:48:00 EST  
 Expiration Time: 01/15/05 02:48:00 EST  
 Status: Event Not Selected by User

\*\*\*\*\*  
 01/14/05 20:53:24 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 01/14/05 20:53:28 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-FLW-037037+0600-0150148-WQDR -  
 EAS Translation: The National Weather Service has issued a Flood Warning for  
 the following counties: Chatham NC. Effective Until 01/15/05 02:48:00  
 EST.

Add Commer  
Acknowledge

Originator: National Weather Service  
 Event: Flood Warning  
 Origination Time: 01/14/05 20:48:00 EST  
 Expiration Time: 01/15/05 02:48:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 01/14/05 20:54:19 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 01/17/05 05:50:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
 EAS Header: ZCZC-EAS-RWT-037063+0015-0171050-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 01/17/05 05:50:00 EST  
 Expiration Time: 01/17/05 06:05:00 EST  
 Status: Forwarding Automatic RWT Message

Acknowledged Tu  
 09:30:15 AM EST  
 patrick.staley@tw  
 Acknowledged Tu  
 09:30:15 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 01/17/05 05:50:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

Comment added Tue 18 Jan 2005 09:31:39 AM EST by patrick.staley@twcable.com:  
 \*\*\*\*\*All sources logged.\*\*\*\*\*

\*\*\*\*\*  
 01/18/05 14:16:02 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-0181912-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 01/18/05 14:12:00 EST

Acknowledged W/  
 08:33:48 AM EST  
 patrick.staley@tw  
 Acknowledged W/  
 08:33:48 AM EST  
 patrick.staley@tw

Expiration Time: 01/18/05 15:12:00 EST  
Status: Message Logged, User will Manually Send Message

Add Commer

\*\*\*\*\*  
01/18/05 14:16:05 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
01/19/05 10:26:04 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
01/19/05 12:02:03 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151+0015-0191656-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 01/19/05 11:56:00 EST  
Expiration Time: 01/19/05 12:11:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Th  
06:36:18 AM EST  
patrick.staley@tw  
  
Acknowledged Th  
06:36:18 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/19/05 12:03:28 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/20/05 14:01:15 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-0201904-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/20/05 14:04:00 EST  
Expiration Time: 01/20/05 14:19:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
08:19:45 AM EST  
patrick.staley@tw  
  
Acknowledged Fri  
08:19:45 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/20/05 14:01:19 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
01/21/05 10:11:41 EST Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
-0211512-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/21/05 10:12:00 EST  
Expiration Time: 01/21/05 10:27:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Mc  
10:56:53 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/21/05 10:11:47 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 01/21/05 10:27:39 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -0211532- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 01/21/05 10:32:00 EST  
 Expiration Time: 01/21/05 10:47:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged M  
 10:56:46 AM EST  
 patrick.staley@tw

Acknowledged M  
 10:56:46 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 01/21/05 10:27:45 EST Receive Log: EOM Received from Channel: 1

Comment added Mon 24 Jan 2005 10:57:35 AM EST by patrick.staley@twcable.com:  
 \*\*\*\*\*No RT logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
 01/24/05 11:47:33 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0241649-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 01/24/05 11:49:00 EST  
 Expiration Time: 01/24/05 12:04:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 09:01:17 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 01/24/05 11:47:39 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 01/24/05 11:49:50 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -0241655- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 01/24/05 11:55:00 EST  
 Expiration Time: 01/24/05 12:10:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 09:01:21 AM EST  
 patrick.staley@tw

Acknowledged Tu  
 09:01:21 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 01/24/05 11:49:56 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 01/26/05 04:02:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
 EAS Header: ZCZC-EAS-RWT-037063+0015-0260902-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test

Acknowledged W  
 08:15:50 AM EST  
 patrick.staley@tw

Acknowledged W:

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/26/05 04:02:00 EST  
Expiration Time: 01/26/05 04:17:00 EST  
Status: Forwarding Automatic RWT Message

08:15:50 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/26/05 04:02:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
01/26/05 11:26:28 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151+0015-0261619-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 01/26/05 11:19:00 EST  
Expiration Time: 01/26/05 11:34:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Th  
11:50:38 AM EST  
patrick.staley@tw

Acknowledged Th  
11:50:38 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
01/26/05 11:28:01 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/28/05 05:18:08 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-CEM-017177+0015-0281014-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 01/28/05 05:29:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 01/28/05 05:14:00 EST  
Expiration Time: 01/28/05 05:29:00 EST  
Status: Message Logged, External Controller will Send Message

Add Commer

Acknowledge

\*\*\*\*\*  
01/28/05 05:18:19 EST Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
01/28/05 05:18:57 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
01/28/05 05:18:57 EST Received Audio Message on Channel 6  
Audio Message Length: 037 seconds. [P.L.]

Add Commer

Acknowledge

\*\*\*\*\*  
01/28/05 05:18:58 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-EAS-CEM-017177+0015-0281014-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 01/28/05 05:29:00 EST.

Add Commer

Acknowledge

Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 01/28/05 05:14:00 EST  
Expiration Time: 01/28/05 05:29:00 EST  
Status: Forwarding Message

\*\*\*\*\*  
01/28/05 05:19:04 EST Transmit Log: EOM Initiated by an External Controller

Add Commer  
Acknowledge

\*\*\*\*\*  
01/28/05 11:01:19 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-0281605-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Cumberland NC. Effective Until  
01/28/05 11:20:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 01/28/05 11:05:00 EST  
Expiration Time: 01/28/05 11:20:00 EST  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
01/28/05 11:01:23 EST Receive Log: EOM Received from Channel: 6

Add Commer  
Acknowledge

\*\*\*\*\*  
01/28/05 15:32:08 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-WSW-037145-037077-037181-037001-037135-037063-037151  
-037037+0600-0282019-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Winter Storm  
Warning for the following counties: Person NC - Granville NC - Vance NC  
- Alamance NC - Orange NC - Durham NC - Randolph NC - Chatham NC.  
Effective Until 01/28/05 21:19:00 EST.  
Originator: National Weather Service  
Event: Winter Storm Warning  
Origination Time: 01/28/05 15:19:00 EST  
Expiration Time: 01/28/05 21:19:00 EST  
Status: Event Not Selected by User

\*\*\*\*\*  
01/28/05 15:34:22 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-WSW-037145-037077-037181-037001-037135-037063-037151  
-037037+0600-0282019-WQDR -  
EAS Translation: The National Weather Service has issued a Winter Storm  
Warning for the following counties: Person NC - Granville NC - Vance NC  
- Alamance NC - Orange NC - Durham NC - Randolph NC - Chatham NC.  
Effective Until 01/28/05 21:19:00 EST.  
Originator: National Weather Service  
Event: Winter Storm Warning  
Origination Time: 01/28/05 15:19:00 EST  
Expiration Time: 01/28/05 21:19:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
01/28/05 15:34:34 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
01/28/05 15:36:24 EST Receive Log: EOM Received from Channel: 1

Add Commer

Acknowledge

\*\*\*\*\*  
 01/29/05 11:53:22 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-WSW-037185-037069-037183-037105+0530-0291648-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Winter Storm  
 Warning for the following counties: Warren NC - Franklin NC - Wake NC -  
 Lee NC. Effective Until 01/29/05 17:18:00 EST.  
 Originator: National Weather Service  
 Event: Winter Storm Warning  
 Origination Time: 01/29/05 11:48:00 EST  
 Expiration Time: 01/29/05 17:18:00 EST  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/29/05 11:55:00 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 01/29/05 11:55:04 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-WSW-037185-037069-037183-037105+0530-0291648- WQDR -  
 EAS Translation: The National Weather Service has issued a Winter Storm  
 Warning for the following counties: Warren NC - Franklin NC - Wake NC -  
 Lee NC. Effective Until 01/29/05 17:18:00 EST.  
 Originator: National Weather Service  
 Event: Winter Storm Warning  
 Origination Time: 01/29/05 11:48:00 EST  
 Expiration Time: 01/29/05 17:18:00 EST  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/29/05 11:56:35 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 01/29/05 16:30:17 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
 01/29/05 20:04:07 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

Comment added Mon 31 Jan 2005 07:53:14 AM EST by patrick.staley@twcable.com:  
 \*\*\*\*\*No RTs logged from WDCG, WRDU.\*\*\*\*\*

\*\*\*\*\*  
 01/31/05 12:00:59 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-0311705-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required

Acknowledged W/  
09:26:05 AM EST  
patrick.staley@tw



Weekly Test for the following counties: Cumberland NC. Effective Until 01/31/05 12:20:00 EST.

Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 01/31/05 12:05:00 EST
Expiration Time: 01/31/05 12:20:00 EST
Status: Message Logged, User will Manually Send Message

Add Commer

\*\*\*\*\*
01/31/05 12:01:04 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*
01/31/05 21:26:11 EST Receive Log: EOM Received from Channel: 3

Add Commer
Acknowledge

\*\*\*\*\*
01/31/05 21:26:11 EST Receive Log: EOM Received from Channel: 3

Add Commer
Acknowledge

\*\*\*\*\*
02/01/05 02:09:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS
EAS Header: ZCZC-EAS-RWT-037063+0015-0320709-TWC
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 02/01/05 02:09:00 EST
Expiration Time: 02/01/05 02:24:00 EST
Status: Forwarding Automatic RWT Message

Acknowledged Tu
08:13:58 AM EST
patrick.staley@tw

Add Commer

\*\*\*\*\*
02/01/05 02:09:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*
02/01/05 02:11:28 EST Receive Log: EAS Message Received from Channel: 1
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015-0320718- WQDR
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 02/01/05 02:18:00 EST
Expiration Time: 02/01/05 02:33:00 EST
Status: Message Logged, User will Manually Send Message

Acknowledged Tu
08:14:05 AM EST
patrick.staley@tw

Add Commer

\*\*\*\*\*
02/01/05 02:11:34 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*

02/01/05 02:19:26 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0320721-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/01/05 02:21:00 EST  
 Expiration Time: 02/01/05 02:36:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 08:14:22 AM EST  
 patrick.staley@tw  
 Acknowledged Tu  
 08:14:22 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/01/05 02:19:32 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 02/02/05 11:50:54 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151+0015-0331644-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 02/02/05 11:44:00 EST  
 Expiration Time: 02/02/05 11:59:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 07:45:26 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/02/05 11:52:21 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 02/02/05 17:28:22 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-0332225-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/02/05 17:25:00 EST  
 Expiration Time: 02/02/05 18:25:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 07:45:30 AM EST  
 patrick.staley@tw

Acknowledged Th  
 07:45:30 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/02/05 17:28:25 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 02/03/05 19:34:00 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-0350031-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/03/05 19:31:00 EST  
 Expiration Time: 02/03/05 20:31:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 08:37:08 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*

02/03/05 19:34:06 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 02/04/05 05:43:22 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0351040-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 02/04/05 05:55:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Civil Emergency Message  
 Origination Time: 02/04/05 05:40:00 EST  
 Expiration Time: 02/04/05 05:55:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/04/05 05:43:34 EST Received Attention Tone on Channel 6  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 02/04/05 05:44:05 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 02/04/05 05:44:05 EST Received Audio Message on Channel 6  
 Audio Message Length: 030 seconds. P.1

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/04/05 05:44:06 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0351040-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 02/04/05 05:55:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Civil Emergency Message  
 Origination Time: 02/04/05 05:40:00 EST  
 Expiration Time: 02/04/05 05:55:00 EST  
 Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/04/05 05:44:12 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 02/05/05 01:24:33 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-CIV-RMT-037000+0100-0360623-WYMY -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 02/05/05 02:23:00 EST.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:23:00 EST  
 Expiration Time: 02/05/05 02:23:00 EST  
 Status: Message Logged, External Controller will Send Message

Acknowledged Mr  
 08:21:04 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*

02/05/05 01:24:33 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-CIV-RMT-037000+0100-0360623- WQDR -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 02/05/05 02:23:00 EST.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:23:00 EST  
 Expiration Time: 02/05/05 02:23:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 02/05/05 01:24:44 EST Received Attention Tone on Channel 4  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 02/05/05 01:24:48 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 02/05/05 01:24:48 EST Receive Log: EOM Received from Channel: 1

Add Comment  
Acknowledge

\*\*\*\*\*  
 02/05/05 01:24:51 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-CIV-RMT-037000+0100-0360623-TWC -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 02/05/05 02:23:00 EST.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:23:00 EST  
 Expiration Time: 02/05/05 02:23:00 EST  
 Status: Forwarding Message

Acknowledged Message  
 08:21:16 AM EST  
 patrick.staley@tw

Add Comment

\*\*\*\*\*  
 02/05/05 01:24:54 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-CIV-RMT-037000+0100-0360623-WKML FM -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 02/05/05 02:23:00 EST.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:23:00 EST  
 Expiration Time: 02/05/05 02:23:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 02/05/05 01:24:56 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 02/05/05 01:24:58 EST Receive Log: EOM Received from Channel: 6

Add Comment  
Acknowledge

\*\*\*\*\*  
 02/05/05 01:34:56 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-CIV-RMT-037000+0100-0360623-WDCG -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 02/05/05 02:23:00 EST.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:23:00 EST  
 Expiration Time: 02/05/05 02:23:00 EST  
 Status: Duplicate Message

Acknowledged Mc  
 08:21:23 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/05/05 01:34:58 EST Receive Log: EAS Message Received from Channel: 3  
 EAS Header: ZCZC-CIV-RMT-037000+0100-0360623-WRDU -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 02/05/05 02:23:00 EST.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:23:00 EST  
 Expiration Time: 02/05/05 02:23:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 02/05/05 01:35:19 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 02/05/05 01:35:20 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/05/05 02:35:31 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RMT-037000+0100-0360653-WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Monthly Test for the following counties: State of North Carolina.  
 Effective Until 02/05/05 02:53:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:53:00 EST  
 Expiration Time: 02/05/05 02:53:00 EST  
 Status: Message Logged, External Controller will Send Message

Acknowledged Mc  
 08:21:29 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/05/05 02:35:42 EST Received Attention Tone on Channel 1  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 02/05/05 02:36:07 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 02/05/05 02:36:07 EST Received Audio Message on Channel 1  
 Audio Message Length: 024 seconds. [ 2 ]

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/05/05 02:36:09 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-EAS-RMT-037000+0100-0360653-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Monthly Test for the following counties: State of North Carolina.  
 Effective Until 02/05/05 02:53:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:53:00 EST  
 Expiration Time: 02/05/05 02:53:00 EST  
 Status: Forwarding Message

Acknowledged Mc  
 08:21:38 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/05/05 02:36:14 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 02/05/05 02:36:35 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RMT-037000+0100-0360653-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Monthly Test for the following counties: State of North Carolina.  
 Effective Until 02/05/05 02:53:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:53:00 EST  
 Expiration Time: 02/05/05 02:53:00 EST  
 Status: Duplicate Message

Add Commer

Acknowledge

\*\*\*\*\*  
 02/05/05 02:37:23 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 02/05/05 02:45:37 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RMT-037000+0100-0360653-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Monthly Test for the following counties: State of North Carolina.  
 Effective Until 02/05/05 02:53:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:53:00 EST  
 Expiration Time: 02/05/05 02:53:00 EST  
 Status: Duplicate Message

Acknowledged Mc  
 08:22:48 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/05/05 02:46:11 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 02/05/05 02:46:16 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RMT-037000+0100-0360653-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Monthly Test for the following counties: State of North Carolina.  
 Effective Until 02/05/05 02:53:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Monthly Test  
 Origination Time: 02/05/05 01:53:00 EST

Acknowledged Mc  
 08:23:10 AM EST  
 patrick.staley@tw

Add Commer

Expiration Time: 02/05/05 02:53:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
02/05/05 02:46:18 EST Receive Log: EAS Message Received from Channel: 3  
EAS Header: ZCZC-EAS-RMT-037000+0100-0360653-WRDU -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Monthly Test for the following counties: State of North Carolina.  
Effective Until 02/05/05 02:53:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Required Monthly Test  
Origination Time: 02/05/05 01:53:00 EST  
Expiration Time: 02/05/05 02:53:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
02/05/05 02:46:53 EST Receive Log: EOM Received from Channel: 3  
\*\*\*\*\*  
02/05/05 02:46:54 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
02/07/05 03:26:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-0380826-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 02/07/05 03:26:00 EST  
Expiration Time: 02/07/05 03:41:00 EST  
Status: Forwarding Automatic RWT Message

Acknowledged Mc  
08:24:14 AM EST  
patrick.staley@tw  
  
Acknowledged Mc  
08:24:14 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
02/07/05 03:26:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

Comment added Mon 07 Feb 2005 08:24:39 AM EST by patrick.staley@twcable.com:  
\*\*\*\*\*No RTs logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
02/08/05 10:16:54 EST Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
-037085-037105-037125-037145-037185-037181+0100-0391514-WDCG -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 02/08/05 10:14:00 EST  
Expiration Time: 02/08/05 11:14:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged W/  
08:42:09 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
02/08/05 10:17:00 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
02/08/05 13:24:10 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-0391830-

Acknowledged W/  
08:42:15 AM EST  
patrick.staley@tw

EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/08/05 13:30:00 EST  
 Expiration Time: 02/08/05 13:45:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged W  
 08:42:15 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/08/05 13:24:14 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 02/09/05 11:39:18 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151+0015-0401635-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 02/09/05 11:35:00 EST  
 Expiration Time: 02/09/05 11:50:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 09:39:12 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/09/05 11:40:40 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 02/09/05 15:02:39 EST Receive Log: EAS Message Received from Channel: 3  
 EAS Header: ZCZC-EAS-RWT-037195-037191-037131-037127-037083-037065-037125  
 -037135-037063-037183-037069-037101-037181+0100-0402000-WRDU -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/09/05 15:00:00 EST  
 Expiration Time: 02/09/05 16:00:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 09:39:17 AM EST  
 patrick.staley@tw

Acknowledged Th  
 09:39:17 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/09/05 15:02:46 EST Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
 02/10/05 11:16:28 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -0411624- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/10/05 11:24:00 EST  
 Expiration Time: 02/10/05 11:39:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 06:31:52 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/10/05 11:16:34 EST Receive Log: EOM Received from Channel: 1



\*\*\*\*\*  
 02/10/05 12:42:30 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0411746-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/10/05 12:46:00 EST  
 Expiration Time: 02/10/05 13:01:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 06:31:54 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/10/05 12:42:37 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 02/11/05 04:00:46 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0420858-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 02/11/05 04:13:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Civil Emergency Message  
 Origination Time: 02/11/05 03:58:00 EST  
 Expiration Time: 02/11/05 04:13:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/11/05 04:00:57 EST Received Attention Tone on Channel 6  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 02/11/05 04:01:22 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 02/11/05 04:01:22 EST Received Audio Message on Channel 6  
 Audio Message Length: 024 seconds.  
 ERROR: No wave file found. (CEM1108112482)

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/11/05 04:01:23 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0420858-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 02/11/05 04:13:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Civil Emergency Message  
 Origination Time: 02/11/05 03:58:00 EST  
 Expiration Time: 02/11/05 04:13:00 EST  
 Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 02/11/05 04:01:29 EST Transmit Log: EOM Initiated by an External Controller

Comment added Mon 14 Feb 2005 08:21:03 AM EST by patrick.staley@twcable.com:  
\*\*\*\*\*All sources logged RTs.\*\*\*\*\*

\*\*\*\*\*  
02/14/05 21:56:24 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
02/16/05 05:30:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-0471030-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 02/16/05 05:30:00 EST  
Expiration Time: 02/16/05 05:45:00 EST  
Status: Forwarding Automatic RWT Message

Acknowledged W  
11:10:12 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
02/16/05 05:30:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
02/16/05 09:54:15 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-CIV-RWT-037000+0100-0471446- -  
EAS Translation: Civil Authorities have issued a Required Weekly Test  
Originator: Civil Authorities  
Event: Required Weekly Test  
Origination Time: 02/16/05 09:46:00 EST  
Expiration Time: 02/16/05 10:46:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
08:27:53 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
02/16/05 09:54:19 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
02/16/05 11:20:59 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151+0015-0471616-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 02/16/05 11:16:00 EST  
Expiration Time: 02/16/05 11:31:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
08:27:56 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
02/16/05 11:22:23 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*

Acknowledged Tu

02/16/05 19:39:01 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0480044-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/16/05 19:44:00 EST  
 Expiration Time: 02/16/05 19:59:00 EST  
 Status: Message Logged, User will Manually Send Message

08:28:01 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/16/05 19:39:07 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 02/16/05 20:53:32 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -0480202-WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/16/05 21:02:00 EST  
 Expiration Time: 02/16/05 21:17:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 08:28:05 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/16/05 20:53:38 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 02/17/05 23:09:56 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-0490408-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/17/05 23:08:00 EST  
 Expiration Time: 02/18/05 00:08:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 08:28:10 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/17/05 23:10:04 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 02/18/05 04:15:26 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0490913-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 02/18/05 04:28:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Civil Emergency Message  
 Origination Time: 02/18/05 04:13:00 EST  
 Expiration Time: 02/18/05 04:28:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer

Acknowledge

\*\*\*\*\*

02/18/05 04:15:37 EST Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
02/18/05 04:16:13 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
02/18/05 04:16:13 EST Received Audio Message on Channel 6  
Audio Message Length: 035 seconds. [E.M.]

Add Commer  
Acknowledge

\*\*\*\*\*  
02/18/05 04:16:15 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-EAS-CEM-017177+0015-0490913-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 02/18/05 04:28:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 02/18/05 04:13:00 EST  
Expiration Time: 02/18/05 04:28:00 EST  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
02/18/05 04:16:20 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
02/21/05 02:21:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-0520721-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 02/21/05 02:21:00 EST  
Expiration Time: 02/21/05 02:36:00 EST  
Status: Forwarding Automatic RWT Message

Acknowledged W/  
08:00:04 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
02/21/05 02:21:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
02/21/05 20:52:45 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

Comment added Tue 22 Feb 2005 08:28:47 AM EST by patrick.staley@twcable.com:  
\*\*\*\*\*No RT logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
02/22/05 09:16:46 EST Receive Log: EAS Message Received from Channel: 5

Acknowledged W/

EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-0531411  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 02/22/05 09:11:00 EST  
 Expiration Time: 02/22/05 09:26:00 EST  
 Status: Message Logged, User will Manually Send Message

08:00:00 AM EST  
 patrick.staley@tw  
 Acknowledged W:  
 08:00:00 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/22/05 09:18:16 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 02/23/05 11:36:27 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-0541631  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 02/23/05 11:31:00 EST  
 Expiration Time: 02/23/05 11:46:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 08:56:07 AM EST  
 patrick.staley@tw  
 Acknowledged Th  
 08:56:07 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/23/05 11:37:52 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 02/24/05 12:28:32 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-0551727-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/24/05 12:27:00 EST  
 Expiration Time: 02/24/05 12:42:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 09:05:26 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 02/24/05 12:28:37 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 02/24/05 23:37:03 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-0560434-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/24/05 23:34:00 EST  
 Expiration Time: 02/25/05 00:34:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 09:05:35 AM EST  
 patrick.staley@tw  
 Acknowledged Fri  
 09:05:35 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*

02/24/05 23:37:10 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 02/25/05 14:24:46 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -0561932- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/25/05 14:32:00 EST  
 Expiration Time: 02/25/05 14:47:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Mon  
07:59:45 AM EST  
patrick.staley@tw

Add Comment

\*\*\*\*\*  
 02/25/05 14:24:52 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 02/25/05 15:26:12 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0562029-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/25/05 15:29:00 EST  
 Expiration Time: 02/25/05 15:44:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Mon  
07:59:49 AM EST  
patrick.staley@tw

Acknowledged Mon  
07:59:49 AM EST  
patrick.staley@tw

Add Comment

\*\*\*\*\*  
 02/25/05 15:26:18 EST Receive Log: EOM Received from Channel: 4

Comment added Mon 28 Feb 2005 08:01:11 AM EST by patrick.staley@twcable.com:  
 \*\*\*\*\*No RTs logged from WRDU. Again, something unknown on 2/21. Suspect formatting issue at

\*\*\*\*\*  
 02/28/05 11:16:17 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0591619-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 02/28/05 11:19:00 EST  
 Expiration Time: 02/28/05 11:34:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tue  
08:16:21 AM EST  
patrick.staley@tw

Add Comment

\*\*\*\*\*  
 02/28/05 11:16:23 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 02/28/05 14:24:41 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015

Acknowledged Tue  
08:16:25 AM EST  
patrick.staley@tw

-0591933- WQDR -

EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 02/28/05 14:33:00 EST
Expiration Time: 02/28/05 14:48:00 EST
Status: Message Logged, User will Manually Send Message

Acknowledged Tu
08:16:25 AM EST
patrick.staley@tw

Add Commer

\*\*\*\*\*
02/28/05 14:24:47 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*
02/28/05 14:24:41 EST Receive Log: EAS Message Received from Channel: 1
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015
-0591933- WQDR -
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 02/28/05 14:33:00 EST
Expiration Time: 02/28/05 14:48:00 EST
Status: Message Logged, User will Manually Send Message

Acknowledged Tu
08:16:25 AM EST
patrick.staley@tw

Acknowledged Tu
08:16:25 AM EST
patrick.staley@tw

Add Commer

\*\*\*\*\*
02/28/05 14:24:47 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*
03/02/05 11:18:58 EST Receive Log: EAS Message Received from Channel: 5
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135
-037145-037181-037183-037185-037001-037151-037085-037125+0015-0611612
-KRAH/NWS-
EAS Translation: The National Weather Service has issued a Required Weekly Test
Originator: National Weather Service
Event: Required Weekly Test
Origination Time: 03/02/05 11:12:00 EST
Expiration Time: 03/02/05 11:27:00 EST
Status: Message Logged, User will Manually Send Message

Acknowledged Fri
09:10:41 AM EST
patrick.staley@tw

Add Commer

\*\*\*\*\*
03/02/05 11:20:45 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*
03/02/05 11:57:03 EST Receive Log: EAS Message Received from Channel: 6
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155
-037163-037051+0100-0611651-WQSM -
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 03/02/05 11:51:00 EST
Expiration Time: 03/02/05 12:51:00 EST
Status: Message Logged, User will Manually Send Message

Add Commer

Acknowledge

\*\*\*\*\*
03/02/05 11:57:09 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/03/05 03:38:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
 EAS Header: ZCZC-EAS-RWT-037063+0015-0620838-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/03/05 03:38:00 EST  
 Expiration Time: 03/03/05 03:53:00 EST  
 Status: Forwarding Automatic RWT Message

Acknowledged Fri  
 09:10:58 AM EST  
 patrick.staley@tw

Acknowledged Fri  
 09:10:58 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/03/05 03:38:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
 03/04/05 17:01:51 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-0632201-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/04/05 17:01:00 EST  
 Expiration Time: 03/04/05 17:16:00 EST  
 Status: Message Logged, User will Manually Send Message

Add Commer

Acknowledge

\*\*\*\*\*  
 03/04/05 17:01:56 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/05/05 11:41:51 EST Receive Log: EOM Received from Channel: 3

Add Commer

Acknowledge

\*\*\*\*\*  
 03/05/05 16:47:36 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-0642145-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/05/05 16:45:00 EST  
 Expiration Time: 03/05/05 17:45:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged M  
 09:34:02 AM EST  
 patrick.staley@tw

Acknowledged M  
 09:34:02 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/05/05 16:47:42 EST Receive Log: EOM Received from Channel: 2

Comment added Mon 07 Mar 2005 09:34:37 AM EST by patrick.staley@twcable.com:  
 \*\*\*\*\*No RTs logged from WRDU.\*\*\*\*\*



\*\*\*\*\*  
 03/07/05 11:29:58 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-0661630-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/07/05 11:30:00 EST  
 Expiration Time: 03/07/05 11:45:00 EST  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 03/07/05 11:30:02 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/08/05 04:10:55 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -0670920- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/08/05 04:20:00 EST  
 Expiration Time: 03/08/05 04:35:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 08:27:44 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/08/05 04:11:01 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 03/08/05 04:15:52 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -0670920-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/08/05 04:20:00 EST  
 Expiration Time: 03/08/05 04:35:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 08:27:51 AM EST  
 patrick.staley@tw

Acknowledged Tu  
 08:27:51 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/08/05 04:15:58 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 03/08/05 08:32:20 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVA-037037-037063-037069-037077-037085-037101-037105  
 -037125-037135-037145-037181-037183-037185+0430-0671331-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Watch  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Watch  
 Origination Time: 03/08/05 08:31:00 EST  
 Expiration Time: 03/08/05 13:01:00 EST  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/08/05 08:33:19 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
03/08/05 08:52:32 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037135+0030-0671352-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/08/05 08:52:00 EST  
Expiration Time: 03/08/05 09:22:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/08/05 08:53:09 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037135+0030-0671345- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/08/05 08:45:00 EST  
Expiration Time: 03/08/05 09:15:00 EST  
Status: Event Not Selected by User

\*\*\*\*\*  
03/08/05 08:53:24 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
03/08/05 08:53:44 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
03/08/05 08:54:35 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037037-037105-037125+0100-0671354-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/08/05 08:54:00 EST  
Expiration Time: 03/08/05 09:54:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/08/05 08:55:59 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
03/08/05 08:56:03 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037037-037105-037125+0100-0671354- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/08/05 08:54:00 EST  
Expiration Time: 03/08/05 09:54:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*

03/08/05 08:57:21 EST Receive Log: EOM Received from Channel: 1

---

\*\*\*\*\*

03/08/05 09:25:39 EST Receive Log: EAS Message Received from Channel: 5

EAS Header: ZCZC-WXR-SVR-037069+0045-0671425-KRAH/NWS-

EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning

Originator: National Weather Service

Event: Severe Thunderstorm Warning

Origination Time: 03/08/05 09:25:00 EST

Expiration Time: 03/08/05 10:10:00 EST

Status: Event Not Selected by User

Add Commer

Acknowledge

\*\*\*\*\*

03/08/05 09:26:57 EST Receive Log: EOM Received from Channel: 5

---

\*\*\*\*\*

03/08/05 09:27:00 EST Receive Log: EAS Message Received from Channel: 1

EAS Header: ZCZC-WXR-SVR-037069+0045-0671425- WQDR -

EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning

Originator: National Weather Service

Event: Severe Thunderstorm Warning

Origination Time: 03/08/05 09:25:00 EST

Expiration Time: 03/08/05 10:10:00 EST

Status: Duplicate Message

Add Commer

Acknowledge

\*\*\*\*\*

03/08/05 09:27:54 EST Receive Log: EAS Message Received from Channel: 5

EAS Header: ZCZC-WXR-SVR-037085+0100-0671427-KRAH/NWS-

EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning

Originator: National Weather Service

Event: Severe Thunderstorm Warning

Origination Time: 03/08/05 09:27:00 EST

Expiration Time: 03/08/05 10:27:00 EST

Status: Event Not Selected by User

\*\*\*\*\*

03/08/05 09:28:10 EST Receive Log: EOM Received from Channel: 1

---

\*\*\*\*\*

03/08/05 09:29:19 EST Receive Log: EOM Received from Channel: 5

Add Commer

Acknowledge

\*\*\*\*\*

03/08/05 09:29:25 EST Receive Log: EAS Message Received from Channel: 5

EAS Header: ZCZC-WXR-SVR-037183+0045-0671429-KRAH/NWS-

EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning

Originator: National Weather Service

Event: Severe Thunderstorm Warning

Origination Time: 03/08/05 09:29:00 EST

Add Commer

Acknowledge

Expiration Time: 03/08/05 10:14:00 EST  
Status: Event Not Selected by User

\*\*\*\*\*  
03/08/05 09:30:38 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
03/08/05 09:30:42 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037183+0045-0671429- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/08/05 09:29:00 EST  
Expiration Time: 03/08/05 10:14:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
03/08/05 09:31:48 EST Receive Log: EOM Received from Channel: 1

No valid end for this message, time diff = 233847s

\*\*\*\*\*  
03/08/05 09:31:51 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-0671426-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/08/05 09:26:00 EST  
Expiration Time: 03/08/05 10:26:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
09:36:59 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/11/05 02:29:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS

\*\*\*\*\*  
03/11/05 02:30:22 EST Transmit Log: EOM Auto Generated by EASy PLUS

Add Commer  
Acknowledge

Comment added Mon 14 Mar 2005 08:55:34 AM EST by patrick.staley@twcable.com:  
\*\*\*\*\*No RTs logged from WDCG,WRDU,NWS. Double-checking paper logs.\*\*\*\*\*

\*\*\*\*\*  
03/16/05 03:25:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
AS Header: ZCZC-EAS-RWT-037063+0015-0750825-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/16/05 03:25:00 EST

Acknowledged W  
07:32:38 AM EST  
patrick.staley@tw  
  
Acknowledged W  
07:32:38 AM EST  
patrick.staley@tw

Expiration Time: 03/16/05 03:40:00 EST  
Status: Forwarding Automatic RWT Message

Add Commer

\*\*\*\*\*  
03/16/05 03:26:22 EST Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
03/16/05 10:15:07 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-WXR-RMT-037001-037037-037063-037069-037077-037085-037101  
-037105-037125-037135-037145-037151-037181-037183-037185+0200-0751415  
-WERO/FM -

Acknowledged Mc  
08:15:18 AM EST  
patrick.staley@tw

EAS Translation: The National Weather Service has issued a Required Monthly  
Test for the following counties: Alamance NC - Chatham NC - Durham NC -  
Franklin NC - Granville NC - Harnett NC - Johnston NC - Lee NC - Moore  
NC - Orange NC - Person NC - Randolph NC - Vance NC - Wake NC - Warren  
NC. Effective Until 03/16/05 11:15:00 EST.

Add Commer

Originator: National Weather Service  
Event: Required Monthly Test  
Origination Time: 03/16/05 09:15:00 EST  
Expiration Time: 03/16/05 11:15:00 EST  
Status: Message Logged, External Controller will Send Message ,

\*\*\*\*\*  
03/16/05 10:15:20 EST Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
03/16/05 10:16:18 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
03/16/05 10:16:18 EST Received Audio Message on Channel 6  
Audio Message Length: 056 seconds. [P.L.]

Add Commer

Acknowledge

\*\*\*\*\*  
03/16/05 10:16:19 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-WXR-RMT-037001-037037-037063-037069-037077-037085-037101  
-037105-037125-037135-037145-037151-037181-037183-037185+0200-0751415-TWC

Acknowledged Wi  
11:01:29 AM EST  
patrick.staley@tw

EAS Translation: The National Weather Service has issued a Required Monthly  
Test for the following counties: Alamance NC - Chatham NC - Durham NC -  
Franklin NC - Granville NC - Harnett NC - Johnston NC - Lee NC - Moore  
NC - Orange NC - Person NC - Randolph NC - Vance NC - Wake NC - Warren  
NC. Effective Until 03/16/05 11:15:00 EST.

Acknowledged Wi  
11:01:29 AM EST  
patrick.staley@tw

Add Commer

Originator: National Weather Service  
Event: Required Monthly Test  
Origination Time: 03/16/05 09:15:00 EST  
Expiration Time: 03/16/05 11:15:00 EST  
Status: Forwarding Message

\*\*\*\*\*  
03/16/05 10:16:29 EST Transmit Log: EOM Initiated by an External Controller

Acknowledged Mc

03/16/05 13:54:11 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-0751847-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Bladen NC - Cumberland NC -  
 Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
 Scotland NC - Cumberland NC. Effective Until 03/16/05 14:47:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/16/05 13:47:00 EST  
 Expiration Time: 03/16/05 14:47:00 EST  
 Status: Message Logged, User will Manually Send Message

08:15:24 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/16/05 13:54:16 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/17/05 20:21:03 EST Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-CIV-CAE-037000+0300-0770119-WYMY -  
 EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
 for the following counties: State of North Carolina. Effective Until  
 03/17/05 23:19:00 EST.  
 Originator: Civil Authorities  
 Event: Child Abduction Emergency  
 Origination Time: 03/17/05 20:19:00 EST  
 Expiration Time: 03/17/05 23:19:00 EST  
 Status: Message Logged, External Controller will Send Message

Acknowledged Fri  
08:24:17 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/17/05 20:21:03 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-CIV-CAE-037000+0300-0770119-WQDR -  
 EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
 for the following counties: State of North Carolina. Effective Until  
 03/17/05 23:19:00 EST.  
 Originator: Civil Authorities  
 Event: Child Abduction Emergency  
 Origination Time: 03/17/05 20:19:00 EST  
 Expiration Time: 03/17/05 23:19:00 EST  
 Status: Duplicate Message

\*\*\*\*\*  
 03/17/05 20:21:14 EST Received Attention Tone on Channel 4  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 03/17/05 20:22:43 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 03/17/05 20:22:43 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 03/17/05 20:22:43 EST Received Audio Message on Channel 4  
 Audio Message Length: 088 seconds.  
 ERROR: No wave file found. (CAE1111108963)

Add Commer  
Acknowledge

\*\*\*\*\*  
 03/17/05 20:22:45 EST Transmit Log: External Controller Initiated EAS Message

03/22/05 10:39:56 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-CIV-CAE-037000+0300-0811536-WKML FM -  
 EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
 for the following counties: State of North Carolina. Effective Until  
 03/22/05 13:36:00 EST.  
 Originator: Civil Authorities  
 Event: Child Abduction Emergency  
 Origination Time: 03/22/05 10:36:00 EST  
 Expiration Time: 03/22/05 13:36:00 EST  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 03/22/05 10:41:22 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/22/05 10:42:54 EST Receive Log: EAS Message Received from Channel: 3  
 EAS Header: ZCZC-CIV-CAE-037000+0300-0811536-WRDU -  
 EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
 for the following counties: State of North Carolina. Effective Until  
 03/22/05 13:36:00 EST.  
 Originator: Civil Authorities  
 Event: Child Abduction Emergency  
 Origination Time: 03/22/05 10:36:00 EST  
 Expiration Time: 03/22/05 13:36:00 EST  
 Status: Duplicate Message

Acknowledged W/  
 07:38:27 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/22/05 10:44:19 EST Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
 03/22/05 10:45:54 EST Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-CIV-CAE-037000+0300-0811536-WDCG -  
 EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
 for the following counties: State of North Carolina. Effective Until  
 03/22/05 13:36:00 EST.  
 Originator: Civil Authorities  
 Event: Child Abduction Emergency  
 Origination Time: 03/22/05 10:36:00 EST  
 Expiration Time: 03/22/05 13:36:00 EST  
 Status: Duplicate Message

Acknowledged W/  
 07:38:37 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/22/05 10:47:17 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 03/23/05 00:00:33 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-0820453-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Bladen NC - Cumberland NC -  
 Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
 Scotland NC - Cumberland NC. Effective Until 03/23/05 00:53:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/22/05 23:53:00 EST  
 Expiration Time: 03/23/05 00:53:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged W/  
 07:38:46 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/23/05 00:00:38 EST Receive Log: EOM Received from Channel: 6  
\*\*\*\*\*

\*\*\*\*\*  
03/23/05 01:58:28 EST Receive Log: EAS Message Received from Channel: 1  
AS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-0820708- WQDR  
AS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
- Johnston NC - Harnett NC - Lee NC. Effective Until 03/23/05 02:23:00  
EST.  
Generator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Expiration Time: 03/23/05 02:08:00 EST  
Expiration Time: 03/23/05 02:23:00 EST  
Status: Message Logged, User will Manually Send Message  
\*\*\*\*\*

Acknowledged W/  
07:38:54 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/23/05 01:58:34 EST Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
03/23/05 02:14:00 EST Receive Log: EAS Message Received from Channel: 4  
Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
0719-WYMY  
AS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wayne NC - Wilson NC - Edgemcombe  
NC - Halifax NC - Northampton NC. Effective Until 03/23/05  
02:19:00 EST.  
Generator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Expiration Time: 03/23/05 02:19:00 EST  
Expiration Time: 03/23/05 02:34:00 EST  
Status: Message Logged, User will Manually Send Message  
\*\*\*\*\*

Acknowledged W/  
07:39:01 AM EST  
patrick.staley@tw

Acknowledged W/  
07:39:01 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/23/05 02:14:06 EST Receive Log: EOM Received from Channel: 4  
\*\*\*\*\*

\*\*\*\*\*  
03/23/05 23:59 EST Receive Log: EAS Message Received from Channel: 5  
ZCZC-WXR-SVA-037001-037037-037063-037069-037077-037101-037135  
7151-037181-037183-037185+0600-0822224-KRAH/NWS-  
1: The National Weather Service has issued a Severe  
Storm Watch for the following counties: Alamance NC - Chatham NC  
- Franklin NC - Granville NC - Johnston NC - Orange NC -  
- Randolph NC - Vance NC - Wake NC - Warren NC. Effective  
03/23/05 23:24:00 EST.  
National Weather Service  
Understorm Watch  
03/23/05 17:24:00 EST  
03/23/05 23:24:00 EST  
Selected by User  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
03/23/05 23:59 EST Receive Log: EOM Received from Channel: 5  
\*\*\*\*\*



\*\*\*\*\*  
 03/24/05 14:50:16 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-0831943-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Bladen NC - Cumberland NC -  
 Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
 Scotland NC - Cumberland NC. Effective Until 03/24/05 15:43:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 03/24/05 14:43:00 EST  
 Expiration Time: 03/24/05 15:43:00 EST  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 08:01:52 AM EST  
 patrick.staley@tw

Acknowledged Fri  
 08:01:52 AM EST  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 03/24/05 14:50:22 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/26/05 20:52:16 EST Receive Log: EOM Received from Channel: 2

Add Commer

Acknowledge

\*\*\*\*\*  
 03/28/05 06:59:19 EST Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0871157-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 03/28/05 07:12:00 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Civil Emergency Message  
 Origination Time: 03/28/05 06:57:00 EST  
 Expiration Time: 03/28/05 07:12:00 EST  
 Status: Message Logged, External Controller will Send Message

Add Commer

Acknowledge

\*\*\*\*\*  
 03/28/05 06:59:31 EST Received Attention Tone on Channel 6  
 Attention Tone Length: 08 seconds.

\*\*\*\*\*  
 03/28/05 07:00:16 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 03/28/05 07:00:16 EST Received Audio Message on Channel 6  
 Audio Message Length: 044 seconds. [E]

Add Commer

Acknowledge

\*\*\*\*\*  
 /28/05 07:00:18 EST Transmit Log: External Controller Initiated EAS Message  
 EAS Header: ZCZC-EAS-CEM-017177+0015-0871157-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Civil  
 Emergency Message for the following counties: Stephenson IL. Effective  
 Until 03/28/05 07:12:00 EST.

Add Commer

Acknowledge

Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 03/28/05 06:57:00 EST  
Expiration Time: 03/28/05 07:12:00 EST  
Status: Forwarding Message

\*\*\*\*\*  
03/28/05 07:00:23 EST Transmit Log: EOM Initiated by an External Controller  
\*\*\*\*\*

\*\*\*\*\*  
03/28/05 07:00:46 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037085-037101-037183+0030-0871200-WQDR  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Harnett NC - Johnston  
NC - Wake NC. Effective Until 03/28/05 07:30:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/28/05 07:00:00 EST  
Expiration Time: 03/28/05 07:30:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:00:47 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037085-037101-037183+0030-0871200-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Harnett NC - Johnston  
NC - Wake NC. Effective Until 03/28/05 07:30:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/28/05 07:00:00 EST  
Expiration Time: 03/28/05 07:30:00 EST  
Status: Duplicate Message

\*\*\*\*\*  
03/28/05 07:01:13 EST Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
03/28/05 07:02:06 EST Receive Log: EOM Received from Channel: 5  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:15:16 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-CEM-017177+0015-0871213-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
03/28/05 07:28:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Emergency Message  
Origination Time: 03/28/05 07:13:00 EST  
Expiration Time: 03/28/05 07:28:00 EST  
Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:15:25 EST Received Attention Tone on Channel 6  
Tone Length: 08 seconds.  
\*\*\*\*\*

\*\*\*\*\*  
03/28/05 07:16:14 EST Receive Log: EOM Received from Channel: 6  
\*\*\*\*\*

\*\*\*\*\*  
03/28/05 07:16:14 EST Received Audio Message on Channel 6  
Audio Message Length: 045 seconds. E  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:16:15 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-EAS-CEM-017177+0015-0871213-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 03/28/05 07:28:00 EST:  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 03/28/05 07:13:00 EST  
Expiration Time: 03/28/05 07:28:00 EST  
Status: Forwarding Message  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:16:20 EST Transmit Log: EOM Initiated by an External Controller  
\*\*\*\*\*

\*\*\*\*\*  
03/28/05 07:26:21 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037069+0030-0871226-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Franklin NC. Effective  
Until 03/28/05 07:56:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/28/05 07:26:00 EST  
Expiration Time: 03/28/05 07:56:00 EST  
Status: Event Not Selected by User  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:27:24 EST Receive Log: EOM Received from Channel: 5  
\*\*\*\*\*

\*\*\*\*\*  
03/28/05 07:27:27 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037069+0030-0871226-WQDR  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Franklin NC. Effective  
Until 03/28/05 07:56:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/28/05 07:26:00 EST  
Expiration Time: 03/28/05 07:56:00 EST  
Status: Duplicate Message  
\*\*\*\*\*

Acknowledged Mr  
10:15:56 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/28/05 08:24 EST Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
 03/28/05 07:31:14 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037077+0015-0871230-WQDR  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Granville NC.  
 Effective Until 03/28/05 07:45:00 EST.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 03/28/05 07:30:00 EST  
 Expiration Time: 03/28/05 07:45:00 EST  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 03/28/05 07:31:29 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 03/28/05 07:31:35 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037077+0015-0871231-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Granville NC.  
 Effective Until 03/28/05 07:46:00 EST.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 03/28/05 07:31:00 EST  
 Expiration Time: 03/28/05 07:46:00 EST  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 03/28/05 07:32:36 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 03/28/05 07:32:39 EST Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037077+0015-0871231-WQDR  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Granville NC.  
 Effective Until 03/28/05 07:46:00 EST.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 03/28/05 07:31:00 EST  
 Expiration Time: 03/28/05 07:46:00 EST  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 03/28/05 07:33:33 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 03/28/05 07:37:28 EST Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037181+0030-0871237-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Vance NC.. Effective  
 Until 03/28/05 08:07:00 EST.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 03/28/05 07:37:00 EST  
 Expiration Time: 03/28/05 08:07:00 EST  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:38:42 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
03/28/05 07:38:46 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037181+0030-0871237- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Vance NC. Effective  
Until 03/28/05 08:07:00 EST.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 03/28/05 07:37:00 EST  
Expiration Time: 03/28/05 08:07:00 EST  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 07:39:53 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
03/28/05 08:29:22 EST Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-WXR-TOA-037127-037195+0500-0871328-WYMY -  
EAS Translation: The National Weather Service has issued a Tornado Watch for  
the following counties: Nash NC - Wilson NC. Effective Until 03/28/05  
13:28:00 EST.  
Originator: National Weather Service  
Event: Tornado Watch  
Origination Time: 03/28/05 08:28:00 EST  
Expiration Time: 03/28/05 13:28:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 08:30:07 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
03/28/05 08:37:41 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

Comment added Mon 28 Mar 2005 10:17:34 AM EST by patrick.staley@twcable.com:  
\*\*\*\*\*No RTs logged from WDCG, WRDU, NWS.\*\*\*\*\*

\*\*\*\*\*  
03/28/05 16:49:07 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-FLW-037037+0600-0872147-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Flood Warning for  
the following counties: Chatham NC. Effective Until 03/28/05 22:47:00  
EST.  
Originator: National Weather Service  
Event: Flood Warning  
Origination Time: 03/28/05 16:47:00 EST  
Expiration Time: 03/28/05 22:47:00 EST  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
03/28/05 16:50:20 EST Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
03/28/05 20:16:51 EST Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
03/29/05 09:56:17 EST Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
-0881503-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe  
NC - Nash NC - Halifax NC - Northampton NC. Effective Until 03/29/05  
10:18:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/29/05 10:03:00 EST  
Expiration Time: 03/29/05 10:18:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged W:  
08:01:33 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/29/05 09:56:23 EST Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
03/29/05 11:50:53 EST Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-0881702- WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
- Johnston NC - Harnett NC - Lee NC. Effective Until 03/29/05 12:17:00  
EST.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/29/05 12:02:00 EST  
Expiration Time: 03/29/05 12:17:00 EST  
Status: Message Logged, User will Manually Send Message

Acknowledged W:  
08:01:40 AM EST  
patrick.staley@tw

Acknowledged W:  
08:01:40 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
03/29/05 11:50:59 EST Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
03/30/05 11:23:01 EST Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151-037085-037125+0015-0891612  
-KRAH/NWS-  
S Translation: The National Weather Service has issued a Required Weekly  
Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
Granville NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
Wake NC - Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
Effective Until 03/30/05 11:27:00 EST.  
Originator: National Weather Service

Acknowledged Fri  
08:38:37 AM EST  
patrick.staley@tw

Add Commer

Event: Required Weekly Test  
Origination Time: 03/30/05 11:12:00 EST  
Expiration Time: 03/30/05 11:27:00 EST  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*

03/30/05 11:24:40 EST Receive Log: EOM Received from Channel: 5

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\*\*\*\*\*

03/30/05 11:49:29 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-0891643-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Bladen NC - Cumberland NC -  
Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
Scotland NC - Cumberland NC. Effective Until 03/30/05 12:43:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/30/05 11:43:00 EST  
Expiration Time: 03/30/05 12:43:00 EST  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*

03/30/05 11:49:34 EST Receive Log: EOM Received from Channel: 6

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\*\*\*\*\*

03/31/05 02:50:18 EST Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-0900750-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/31/05 02:50:00 EST  
Expiration Time: 03/31/05 03:05:00 EST  
Status: Forwarding Automatic RWT Message

Acknowledged Fri  
08:38:45 AM EST  
patrick.staley@tw

Add Commer

\*\*\*\*\*

03/31/05 02:50:24 EST Transmit Log: EOM Auto Generated by EASy PLUS

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\*\*\*\*\*

03/31/05 11:56:26 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-0901657-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 03/31/05 11:57:00 EST  
Expiration Time: 03/31/05 12:12:00 EST  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*

03/31/05 11:56:30 EST Receive Log: EOM Received from Channel: 6

---

\*\*\*\*\*

03/31/05 23:27:26 EST Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
03/31/05 23:27:26 EST Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
04/02/05 02:11:48 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-CEM-017177+0015-0920710-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 04/02/05 02:25:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 04/02/05 02:10:00 EST  
Expiration Time: 04/02/05 02:25:00 EST  
Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

Add Commer  
Acknowledge

\*\*\*\*\*  
4/02/05 02:12:00 EST Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
4/02/05 02:12:18 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
4/02/05 02:12:18 EST Received Audio Message on Channel 6  
Audio Message Length: 017 seconds. [3.1]

Add Commer  
Acknowledge

Add Commer  
Acknowledge

\*\*\*\*\*  
04/02/05 02:12:20 EST Transmit Log: External Controller Initiated EAS Message  
Header: ZCZC-EAS-CEM-017177+0015-0920710-TWC  
Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 04/02/05 02:25:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 04/02/05 02:10:00 EST  
Expiration Time: 04/02/05 02:25:00 EST  
Forwarding Message

\*\*\*\*\*  
04/02/05 02:12:25 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
04/02/05 02:14:47 EST Receive Log: EAS Message Received from Channel: 6  
ZCZC-EAS-CEM-017177+0015-0921313-TWC

Add Commer



EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 04/02/05 08:28:00 EST.

Acknowledge

Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 04/02/05 08:13:00 EST  
Expiration Time: 04/02/05 08:28:00 EST  
Status: Message Logged, External Controller will Send Message

\*\*\*\*\*  
04/02/05 08:14:59 EST Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
04/02/05 08:15:45 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/02/05 08:15:45 EST Received Audio Message on Channel 6  
Audio Message Length: 045 seconds. [P.]

Add Commer  
Acknowledge

\*\*\*\*\*  
04/02/05 08:15:47 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-EAS-CEM-017177+0015-0921313-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 04/02/05 08:28:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 04/02/05 08:13:00 EST  
Expiration Time: 04/02/05 08:28:00 EST  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/02/05 08:15:52 EST Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
04/02/05 08:27:30 EST Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-CEM-017177+0015-0921325-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 04/02/05 08:40:00 EST.

Add Commer  
Acknowledge

Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 04/02/05 08:25:00 EST  
Expiration Time: 04/02/05 08:40:00 EST  
Status: Message Logged, External Controller will Send Message

\*\*\*\*\*  
04/02/05 08:27:41 EST Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
04/02/05 08:28:35 EST Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/02/05 08:28:35 EST Received Audio Message on Channel 6  
Audio Message Length: 053 seconds. [2.1]

Add Commer  
Acknowledge

\*\*\*\*\*  
04/02/05 08:28:36 EST Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-EAS-CEM-017177+0015-0921325-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Civil  
Emergency Message for the following counties: Stephenson IL. Effective  
Until 04/02/05 08:40:00 EST.  
Originator: Broadcast Station or Cable System  
Event: Civil Emergency Message  
Origination Time: 04/02/05 08:25:00 EST  
Expiration Time: 04/02/05 08:40:00 EST  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/02/05 08:28:42 EST Transmit Log: EOM Initiated by an External Controller  
\*\*\*\*\*  
Comment added Mon 04 Apr 2005 07:55:07 AM EDT by patrick.staley@twcable.com:  
\*\*\*\*No RTs logged from WDCG, WRDU.\*\*\*\*

\*\*\*\*\*  
05/05 05:04:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
Header: ZCZC-EAS-RWT-037063+0015-0950904-TWC  
Translation: A Broadcast Station or Cable System has issued a Required  
Test  
Yes  
Broadcast Station or Cable System  
Required Weekly Test  
Expiration Time: 04/05/05 05:04:00 EDT  
Expiration Time: 04/05/05 05:19:00 EDT  
Forwarding Automatic RWT Message

Acknowledged Tu  
08:26:36 AM EDT  
patrick.staley@tw  
  
Acknowledged Tu  
08:26:36 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05:04:24 EDT Transmit Log: EOM Auto Generated by EASY PLUS  
\*\*\*\*\*  
05:06:34 EDT Receive Log: EAS Message Received from Channel: 4  
Header: ZCZC-CIV-RMT-037000+0300-0951407-WYMY  
Translation: Civil Authorities have issued a Required Monthly Test for  
following counties: State of North Carolina. Effective Until  
05 13:07:00 EDT.  
Civil Authorities  
Required Monthly Test  
Expiration Time: 04/05/05 10:07:00 EDT  
Expiration Time: 04/05/05 13:07:00 EDT  
Message Logged, External Controller will Send Message

Acknowledged W  
10:28:42 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05:34 EDT Receive Log: EAS Message Received from Channel: 1  
Header: ZCZC-CIV-RMT-037000+0300-0951407-WQDR  
Translation: Civil Authorities have issued a Required Monthly Test for  
following counties: State of North Carolina. Effective Until  
05 13:07:00 EDT.  
Civil Authorities  
Required Monthly Test  
Expiration Time: 04/05/05 10:07:00 EDT  
Expiration Time: 04/05/05 13:07:00 EDT  
Message Logged, External Controller will Send Message

Event: Required Monthly Test  
Origination Time: 04/05/05 10:07:00 EDT  
Expiration Time: 04/05/05 13:07:00 EDT  
Status: Duplicate Message

\*\*\*\*\*  
04/05/05 10:06:45 EDT Received Attention Tone on Channel 4  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
04/05/05 10:07:15 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
04/05/05 10:07:15 EDT Received Audio Message on Channel 4  
Audio Message Length: 029 seconds. [E]

Add Commer  
Acknowledge

\*\*\*\*\*  
04/05/05 10:07:15 EDT Receive Log: EOM Received from Channel: 1

Add Commer  
Acknowledge

\*\*\*\*\*  
04/05/05 10:07:17 EDT Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-CIV-RMT-037000+0300-0951407-TWC  
EAS Translation: Civil Authorities have issued a Required Monthly Test for  
the following counties: State of North Carolina. Effective Until  
04/05/05 13:07:00 EDT.  
Originator: Civil Authorities  
Event: Required Monthly Test  
Origination Time: 04/05/05 10:07:00 EDT  
Expiration Time: 04/05/05 13:07:00 EDT  
Status: Forwarding Message

Acknowledged W/  
10:28:54 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/05/05 10:07:22 EDT Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
04/05/05 10:07:43 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-CIV-RMT-037000+0300-0951407-WQSM  
EAS Translation: Civil Authorities have issued a Required Monthly Test for  
the following counties: State of North Carolina. Effective Until  
04/05/05 13:07:00 EDT.  
Originator: Civil Authorities  
Event: Required Monthly Test  
Origination Time: 04/05/05 10:07:00 EDT  
Expiration Time: 04/05/05 13:07:00 EDT  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/05/05 10:08:35 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 04/05/05 10:09:06 EDT Receive Log: EAS Message Received from Channel: 3  
 EAS Header: ZCZC-CIV-RMT-037000+0300-0951407-WRDU  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 04/05/05 13:07:00 EDT.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 04/05/05 10:07:00 EDT  
 Expiration Time: 04/05/05 13:07:00 EDT  
 Status: Duplicate Message

Acknowledged W/  
 10:29:04 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 04/05/05 10:09:13 EDT Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-CIV-RMT-037000+0300-0951407-WDCG  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 04/05/05 13:07:00 EDT.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 04/05/05 10:07:00 EDT  
 Expiration Time: 04/05/05 13:07:00 EDT  
 Status: Duplicate Message

\*\*\*\*\*  
 04/05/05 10:09:48 EDT Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
 04/05/05 10:09:53 EDT Receive Log: EOM Received from Channel: 2

Acknowledged W/  
 10:29:19 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 04/05/05 10:53:43 EDT Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/05 11:25:49 EDT Receive Log: EAS Message Received from Channel: 5  
 Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-0961524  
 -KRAH/NWS-

Acknowledged Th  
 09:51:14 AM EDT  
 patrick.staley@tw

Add Commer

Translation: The National Weather Service has issued a Required Weekly  
 Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
 Granville NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
 Wake NC - Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
 Effective Until 04/06/05 11:39:00 EDT.  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 04/06/05 11:24:00 EDT  
 Expiration Time: 04/06/05 11:39:00 EDT  
 Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/06/05 11:27:15 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
04/06/05 11:35:45 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-0961537-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Bladen NC - Cumberland NC -  
Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
Scotland NC - Cumberland NC. Effective Until 04/06/05 12:37:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/06/05 11:37:00 EDT  
Expiration Time: 04/06/05 12:37:00 EDT  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/06/05 11:35:51 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/06/05 13:45:12 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
04/07/05 13:25:51 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
-0971734-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe  
NC - Nash NC - Halifax NC - Northampton NC. Effective Until 04/07/05  
13:49:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/07/05 13:34:00 EDT  
Expiration Time: 04/07/05 13:49:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
07:23:39 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/07/05 13:25:57 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
04/07/05 14:49:31 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-0971901-WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
- Johnston NC - Harnett NC - Lee NC. Effective Until 04/07/05 15:16:00  
EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/07/05 15:01:00 EDT  
Expiration Time: 04/07/05 15:16:00 EDT

Acknowledged Fri  
07:23:45 AM EDT  
patrick.staley@tw

Acknowledged Fri  
07:23:45 AM EDT  
patrick.staley@tw

Add Commer

Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/07/05 14:49:37 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
04/08/05 13:52:12 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-0981755-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Cumberland NC. Effective Until  
04/08/05 14:10:00 EDT.

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/08/05 13:55:00 EDT  
Expiration Time: 04/08/05 14:10:00 EDT  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/08/05 13:52:16 EDT Receive Log: EOM Received from Channel: 6

Comment added Mon 11 Apr 2005 08:20:45 AM EDT by patrick.staley@twcable.com:  
\*\*\*\*\*All sourced logged RT.\*\*\*\*\*

\*\*\*\*\*  
04/11/05 12:28:18 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-1011632-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Cumberland NC. Effective Until  
04/11/05 12:47:00 EDT.

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/11/05 12:32:00 EDT  
Expiration Time: 04/11/05 12:47:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged W/  
10:06:03 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/11/05 12:28:22 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/11/05 20:12:12 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
-1020018-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe  
NC - Nash NC - Halifax NC - Northampton NC. Effective Until 04/11/05  
20:33:00 EDT.

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/11/05 20:18:00 EDT  
Expiration Time: 04/11/05 20:33:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged W/  
10:06:07 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/11/05 20:12:18 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 04/11/05 20:22:49 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1020036- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
 - Johnston NC - Harnett NC - Lee NC. Effective Until 04/11/05 20:51:00  
 EDT.

Acknowledged W  
 10:06:14 AM EDT  
 patrick.staley@tw

Add Commer

Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/11/05 20:36:00 EDT  
 Expiration Time: 04/11/05 20:51:00 EDT  
 Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
 04/11/05 20:22:55 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 04/11/05 23:15:38 EDT Receive Log: EOM Received from Channel: 3

Add Commer

Acknowledge

\*\*\*\*\*  
 04/13/05 11:13:13 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-1031509  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
 Granville NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
 Wake NC - Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
 Effective Until 04/13/05 11:24:00 EDT.

Acknowledged Mc  
 08:45:19 AM EDT  
 patrick.staley@tw

Add Commer

Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 04/13/05 11:09:00 EDT  
 Expiration Time: 04/13/05 11:24:00 EDT  
 Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
 04/13/05 11:14:53 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 04/13/05 13:37:07 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-1031739-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Bladen NC - Cumberland NC -  
 Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
 Scotland NC - Cumberland NC. Effective Until 04/13/05 14:39:00 EDT.

Add Commer

Acknowledge

Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/13/05 13:39:00 EDT  
 Expiration Time: 04/13/05 14:39:00 EDT  
 Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/13/05 13:37:13 EDT Receive Log: EOM Received from Channel: 6

Add Commer  
Acknowledge

\*\*\*\*\*  
04/14/05 03:40:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1040740-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/14/05 03:40:00 EDT  
Expiration Time: 04/14/05 03:55:00 EDT  
Status: Forwarding Automatic RWT Message

\*\*\*\*\*  
04/14/05 03:40:24 EDT Transhit Log: EOM Auto Generated by EASY PLUS

\*\*\*\*\*  
04/14/05 20:18:32 EDT Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
-037085-037105-037125-037145-037185-037181+0100-1050020-WDCG  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/14/05 20:20:00 EDT  
Expiration Time: 04/14/05 21:20:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged M  
08:45:29 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/14/05 20:18:36 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
04/18/05 02:23:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1080623-TWC  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/18/05 02:23:00 EDT  
Expiration Time: 04/18/05 02:38:00 EDT  
Status: Forwarding Automatic RWT Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/18/05 02:23:24 EDT Transmit Log: EOM Auto Generated by EASY PLUS

Comment added Mon 18 Apr 2005 08:46:07 AM EDT by patrick.staley@twcable.com:  
\*\*\*\*\*No RT logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
04/18/05 22:35:11 EDT Receive Log: EAS Message Received from Channel: 3  
EAS Header: ZCZC-EAS-RWT-037195-037191-037131-037127-037083-037065-037125  
-037135-037063-037183-037069-037101-037181+0100-1090237-WRDU

Acknowledged W  
11:24:13 AM EDT  
patrick.staley@tw



EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/18/05 22:37:00 EDT  
 Expiration Time: 04/18/05 23:37:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer

\*\*\*\*\*  
 04/18/05 22:35:17 EDT Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
 04/19/05 03:07:35 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1090721- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/19/05 03:21:00 EDT  
 Expiration Time: 04/19/05 03:36:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W/  
11:24:17 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
 04/19/05 03:07:41 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 04/19/05 03:12:14 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1090719-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/19/05 03:19:00 EDT  
 Expiration Time: 04/19/05 03:34:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W/  
11:24:21 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
 04/19/05 03:12:20 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 04/19/05 10:56:44 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-1091501-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/19/05 11:01:00 EDT  
 Expiration Time: 04/19/05 11:16:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer

Acknowledge

\*\*\*\*\*  
 04/19/05 10:56:49 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 04/20/05 11:12:46 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-1101508  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 04/20/05 11:08:00 EDT  
 Expiration Time: 04/20/05 11:23:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W/  
 11:24:27 AM EDT  
 patrick.staley@tw

Acknowledged W/  
 11:24:27 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 04/20/05 11:14:18 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 04/20/05 11:20:46 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-1101523-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/20/05 11:23:00 EDT  
 Expiration Time: 04/20/05 12:23:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer

Acknowledge

\*\*\*\*\*  
 04/20/05 11:20:52 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 04/21/05 23:52:59 EDT Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-1120355-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 04/21/05 23:55:00 EDT  
 Expiration Time: 04/22/05 00:55:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 08:06:53 AM EDT  
 patrick.staley@tw

Acknowledged Fri  
 08:06:53 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 04/21/05 23:53:03 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 04/22/05 14:30:52 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVA-037001-037145-037151+0530-1121833-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Watch  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Watch  
 Origination Time: 04/22/05 14:33:00 EDT  
 Expiration Time: 04/22/05 20:03:00 EDT  
 Status: Event Not Selected by User

Add Commer

Acknowledge

\*\*\*\*\*  
04/22/05 14:31:46 EDT Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
04/23/05 13:07:01 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVA-037063-037069-037077-037135-037145-037181-037185  
+0600-1131709-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Watch  
Originator: National Weather Service  
Event: Severe Thunderstorm Watch  
Origination Time: 04/23/05 13:09:00 EDT  
Expiration Time: 04/23/05 19:09:00 EDT  
Status: Event Not Selected by User

\*\*\*\*\*  
04/23/05 13:07:56 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
04/23/05 14:38:37 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037069-037183+0045-1131841-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 04/23/05 14:41:00 EDT  
Expiration Time: 04/23/05 15:26:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
04/23/05 14:39:57 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
04/23/05 14:40:01 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037069-037183+0045-1131841- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 04/23/05 14:41:00 EDT  
Expiration Time: 04/23/05 15:26:00 EDT  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/23/05 14:41:13 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
04/24/05 17:56:33 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037085-037105-037183+0015-1142200-KRAH/NWS-  
AS Translation: The National Weather Service has issued a Required Weekly  
Test  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 04/24/05 18:00:00 EDT  
Expiration Time: 04/24/05 18:15:00 EDT

Acknowledged Tu  
08:07:58 AM EDT  
patrick.staley@tw

Add Commer

Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/24/05 17:58:13 EDT Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
04/25/05 21:58:23 EDT Receive Log: EOM Received from Channel: 3

\*\*\*\*\*  
04/26/05 03:48:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1160748-TWC -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/26/05 03:48:00 EDT  
Expiration Time: 04/26/05 04:03:00 EDT  
Status: Forwarding Automatic RWT Message

Acknowledged Tu  
12:36:18 PM EDT  
patrick.staley@tw  
  
Acknowledged Tu  
12:36:18 PM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/26/05 03:48:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS

Comment added Tue 26 Apr 2005 08:08:49 AM EDT by patrick.staley@twcable.com:  
\*\*\*\*\*All sources logged RTs.\*\*\*\*\*

\*\*\*\*\*  
04/27/05 10:22:07 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-1171437- WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/27/05 10:37:00 EDT  
Expiration Time: 04/27/05 10:52:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged Th  
08:56:24 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/27/05 10:22:13 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
04/27/05 10:24:22 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
-1171432-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/27/05 10:32:00 EDT  
Expiration Time: 04/27/05 10:47:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged Th  
08:56:28 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/27/05 10:24:28 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
04/27/05 11:11:41 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151-037085-037125+0015-1171511  
-KRAH/NWS-

Acknowledged Th  
08:56:37 AM EDT  
patrick.staley@tw

EAS Translation: The National Weather Service has issued a Required Weekly Test

Add Commer

Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 04/27/05 11:11:00 EDT  
Expiration Time: 04/27/05 11:26:00 EDT  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/27/05 11:13:06 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
04/27/05 11:51:15 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-1171554-WQSM -

Add Commer

EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test

Acknowledge

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/27/05 11:54:00 EDT  
Expiration Time: 04/27/05 12:54:00 EDT  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/27/05 11:51:21 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/27/05 13:24:36 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-1171730-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test

Add Commer

Acknowledge

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/27/05 13:30:00 EDT  
Expiration Time: 04/27/05 13:45:00 EDT  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
04/27/05 13:24:40 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/27/05 23:29:48 EDT Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
-037085-037105-037125-037145-037185-037181+0100-1180333-WDCG -  
EAS Translation: A Broadcast Station or Cable System has issued a Required Weekly Test

Acknowledged Th  
08:56:45 AM EDT  
patrick.staley@tw

Acknowledged Th

Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 04/27/05 23:33:00 EDT  
Expiration Time: 04/28/05 00:33:00 EDT  
Status: Message Logged, User will Manually Send Message

08:56:45 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
04/27/05 23:29:51 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
04/30/05 03:56:10 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-CIV-CAE-037019-037047-037129-037133-037141-037017-037051  
-037061-037093-037155-037163-037165+0300-1200757-WKML FM -  
EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
for the following counties: Brunswick NC - Columbus NC - New Hanover NC  
- Onslow NC - Pender NC, - Bladen NC - Cumberland NC - Duplin NC - Hoke  
NC - Robeson NC - Sampson NC - Scotland NC. Effective Until 04/30/05  
06:57:00 EDT.  
Originator: Civil Authorities  
Event: Child Abduction Emergency  
Origination Time: 04/30/05 03:57:00 EDT  
Expiration Time: 04/30/05 06:57:00 EDT  
Status: Message Logged, External Controller will Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
04/30/05 03:56:23 EDT Received Attention Tone on Channel 6  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
04/30/05 03:57:31 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
04/30/05 03:57:31 EDT Received Audio Message on Channel 6  
Audio Message Length: 067 seconds. [ ]

Add Commer  
Acknowledge

\*\*\*\*\*  
04/30/05 03:57:33 EDT Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-CIV-CAE-037019-037047-037129-037133-037141-037017-037051  
-037061-037093-037155-037163-037165+0300-1200757-TWC -  
EAS Translation: Civil Authorities have issued a Child Abduction Emergency  
for the following counties: Brunswick NC - Columbus NC - New Hanover NC  
- Onslow NC - Pender NC - Bladen NC - Cumberland NC - Duplin NC - Hoke  
NC - Robeson NC - Sampson NC - Scotland NC. Effective Until 04/30/05  
06:57:00 EDT.  
Originator: Civil Authorities  
Event: Child Abduction Emergency  
Origination Time: 04/30/05 03:57:00 EDT  
Expiration Time: 04/30/05 06:57:00 EDT  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
./30/05 03:57:42 EDT Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
 04/30/05 09:33:10 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVA-037001-037037-037063-037069-037077-037085-037101  
 -037105-037125-037135-037145-037151-037183+0600-1201336-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Watch for the following counties: Alamance NC - Chatham NC  
 - Durham NC - Franklin NC - Granville NC - Harnett NC - Johnston NC -  
 Lee NC - Moore NC - Orange NC - Person NC - Randolph NC - Wake NC.  
 Effective Until 04/30/05 15:36:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Watch  
 Origination Time: 04/30/05 09:36:00 EDT  
 Expiration Time: 04/30/05 15:36:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 04/30/05 09:34:10 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 04/30/05 09:33:10 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVA-037001-037037-037063-037069-037077-037085-037101  
 -037105-037125-037135-037145-037151-037183+0600-1201336-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Watch for the following counties: Alamance NC - Chatham NC  
 - Durham NC - Franklin NC - Granville NC - Harnett NC - Johnston NC -  
 Lee NC - Moore NC - Orange NC - Person NC - Randolph NC - Wake NC.  
 Effective Until 04/30/05 15:36:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Watch  
 Origination Time: 04/30/05 09:36:00 EDT  
 Expiration Time: 04/30/05 15:36:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 04/30/05 09:34:10 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/02/05 04:00:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
 EAS Header: ZCZC-EAS-RWT-037063+0015-1220800-TWC -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/02/05 04:00:00 EDT  
 Expiration Time: 05/02/05 04:15:00 EDT  
 Status: Forwarding Automatic RWT Message

Acknowledged Th  
 09:06:40 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/02/05 04:00:24 EDT Transmit Log: EOM Auto Generated by EASY PLUS

Comment added Mon 02 May 2005 08:08:42 AM EDT by patrick.staley@twcable.com:  
 \*\*\*\*\*No RT logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
 05/03/05 15:14:36 EDT Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077

Acknowledged Th  
 09:06:45 AM EDT  
 patrick.staley@tw

-037085-037105-037125-037145-037185-037181+0100-1231918-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/03/05 15:18:00 EDT  
 Expiration Time: 05/03/05 16:18:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer

\*\*\*\*\*  
 05/03/05 15:14:42 EDT Receive Log: EOM Received from Channel: 2

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\*\*\*\*\*  
 05/04/05 11:17:04 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-1241516  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 05/04/05 11:16:00 EDT  
 Expiration Time: 05/04/05 11:31:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 09:06:50 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/04/05 11:18:46 EDT Receive Log: EOM Received from Channel: 5

---

\*\*\*\*\*  
 05/04/05 11:32:03 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-1241535-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/04/05 11:35:00 EDT  
 Expiration Time: 05/04/05 12:35:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/04/05 11:32:07 EDT Receive Log: EOM Received from Channel: 6

---

\*\*\*\*\*  
 05/04/05 11:52:28 EDT Receive Log: EAS Message Received from Channel: 3  
 EAS Header: ZCZC-EAS-RWT-037195-037191-037131-037127-037083-037065-037125  
 -037135-037063-037183-037069-037101-037181+0100-1241555-WRDU -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/04/05 11:55:00 EDT  
 Expiration Time: 05/04/05 12:55:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 09:06:58 AM EDT  
 patrick.staley@tw  
 Acknowledged Th  
 09:06:58 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/04/05 11:52:35 EDT Receive Log: EOM Received from Channel: 3



\*\*\*\*\*  
 05/05/05 10:22:22 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-1251429-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/05/05 10:29:00 EDT  
 Expiration Time: 05/05/05 10:44:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/05/05 10:22:27 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 05/05/05 14:09:22 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1251818-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe  
 NC - Nash NC - Halifax NC - Northampton NC. Effective Until 05/05/05  
 14:33:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/05/05 14:18:00 EDT  
 Expiration Time: 05/05/05 14:33:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 08:08:32 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/05/05 14:09:28 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 05/05/05 14:18:51 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1251835-WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
 - Johnston NC - Harnett NC - Lee NC. Effective Until 05/04/04 14:50:00  
 EST.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/04/04 14:35:00 EDT  
 Expiration Time: 05/04/04 14:50:00 EDT  
 Status: Message Expired

Acknowledged Fri  
 08:08:40 AM EDT  
 patrick.staley@tw

Acknowledged Fri  
 08:08:40 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/05/05 14:18:57 EDT Receive Log: EOM Received from Channel: 1

Comment added Mon 09 May 2005 07:57:23 AM EDT by patrick.staley@twcable.com:  
 \*\*\*\*\*All sources logged RTs.\*\*\*\*\*

\*\*\*\*\*  
 05/09/05 10:29:00 EDT Telephone Access Session has been Initiated

Comment added I

Telephone Access User 02: Wilson  
Telephone Session Start Time: 05/09/05 10:29:00 EDT  
Telephone Session Duration: 00000 seconds

11:48:33 AM EDT  
patrick.staley@tw

Remote acc

\*\*\*\*\*  
05/09/05 10:29:23 EDT Transmit Log: Message Initiated by Telephone User 02  
EAS Header: ZCZC-EAS-DMO-037195+0100-1291429-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued a  
Practice/Demo Warning for the following counties: Wilson NC. Effective  
Until 05/09/05 11:29:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Practice/Demo Warning  
Origination Time: 05/09/05 10:29:00 EDT  
Expiration Time: 05/09/05 11:29:00 EDT  
Status: Forwarding Message

Add Commer  
Acknowledge

\*\*\*\*\*  
05/09/05 10:29:36 EDT Transmit Log: EOM Initiated by Telephone User 02

\*\*\*\*\*  
05/09/05 10:30:22 EDT Telephone Access Session has been Terminated  
Telephone Access User 02: Wilson  
Telephone Session Start Time: 05/09/05 10:29:00 EDT  
Telephone Session Duration: 00082 seconds

Comment added I  
11:48:47 AM EDT  
patrick.staley@tw

Remote acc

\*\*\*\*\*  
05/09/05 10:32:26 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/09/05 10:32:26 EDT  
Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
05/09/05 10:33:07 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-DMO-037191+0100-1291433-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued a  
Practice/Demo Warning for the following counties: Wayne NC. Effective  
Until 05/09/05 11:33:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Practice/Demo Warning  
Origination Time: 05/09/05 10:33:00 EDT  
Expiration Time: 05/09/05 11:33:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
05/09/05 10:33:15 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
05/09/05 10:33:22 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/09/05 10:32:26 EDT  
Telephone Session Duration: 00056 seconds

Comment added I  
11:54:46 AM EDT  
patrick.staley@tw

Remote acc

\*\*\*\*\*  
05/09/05 10:35:49 EDT Telephone Access Session has been Initiated  
Telephone Access User 02: Wilson  
Telephone Session Start Time: 05/09/05 10:35:49 EDT  
Telephone Session Duration: 00000 seconds

Comment added I  
11:54:46 AM EDT  
patrick.staley@tw

Remote acc

\*\*\*\*\*  
05/09/05 10:36:28 EDT Telephone Access Session has been Terminated

Add Commer

Telephone Access User 02: Wilson  
Telephone Session Start Time: 05/09/05 10:35:49 EDT  
Telephone Session Duration: 00039 seconds

Acknowledge

\*\*\*\*\*  
05/09/05 11:38:17 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/09/05 11:38:17 EDT  
Telephone Session Duration: 00000 seconds

\*\*\*\*\*  
05/09/05 11:38:42 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-037191+0100-1291539-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Wayne NC. Effective  
Until 05/09/05 12:39:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 05/09/05 11:39:00 EDT  
Expiration Time: 05/09/05 12:39:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
05/09/05 11:38:58 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/09/05 11:38:17 EDT  
Telephone Session Duration: 00041 seconds

\*\*\*\*\*  
05/09/05 11:39:00 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
05/09/05 20:12:04 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
05/10/05 10:26:37 EDT Boot-Up EASyPLUS.

Add Commer  
Acknowledge

\*\*\*\*\*  
05/10/05 10:26:37 EDT EASyPLUS Firmware Upgraded from Version 05.10 to 05.72

\*\*\*\*\*  
05/10/05 10:36:40 EDT Boot-Up EASyPLUS.

\*\*\*\*\*  
05/10/05 13:31:55 EDT Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
05/10/05 13:31:58 EDT Transmit Log: EOM Initiated by an External Controller

Add Commer  
Acknowledge

\*\*\*\*\*

05/10/05 22:30:17 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037125+0030-1310230- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Moore NC. Effective  
 Until 05/10/05 23:00:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/10/05 22:30:00 EDT  
 Expiration Time: 05/10/05 23:00:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/10/05 22:30:33 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037125+0045-1310229-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Moore NC. Effective  
 Until 05/10/05 23:14:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/10/05 22:29:00 EDT  
 Expiration Time: 05/10/05 23:14:00 EDT  
 Status: Event Not Selected by User

\*\*\*\*\*  
 05/10/05 22:30:42 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 05/10/05 22:31:41 EDT Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/10/05 22:31:45 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037125+0045-1310229- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Moore NC. Effective  
 Until 05/10/05 23:14:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/10/05 22:29:00 EDT  
 Expiration Time: 05/10/05 23:14:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/10/05 22:32:46 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 05/11/05 10:41:38 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-1311440-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Bladen NC - Cumberland NC -  
 Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
 Scotland NC - Cumberland NC. Effective Until 05/11/05 11:40:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/11/05 10:40:00 EDT

Add Commer  
Acknowledge

Expiration Time: 05/11/05 11:40:00 EDT  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
05/11/05 10:41:44 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
05/11/05 11:18:17 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151-037085-037125+0030-1311512  
-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
Granville NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
Wake NC - Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
Effective Until 05/11/05 11:42:00 EDT.  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 05/11/05 11:12:00 EDT  
Expiration Time: 05/11/05 11:42:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
08:27:59 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/11/05 11:19:44 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
05/11/05 11:37:53 EDT Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-EAS-RMT-037000+0100-1311537-WDCG -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Monthly Test for the following counties: State of North Carolina.  
Effective Until 05/11/05 12:37:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Monthly Test  
Origination Time: 05/11/05 11:37:00 EDT  
Expiration Time: 05/11/05 12:37:00 EDT  
Status: Message Logged, External Controller will Send Message

Acknowledged Fri  
08:28:05 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/11/05 11:38:02 EDT Received Attention Tone on Channel 2  
Attention Tone Length: 08 seconds.

\*\*\*\*\*  
05/11/05 11:38:23 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
05/11/05 11:38:23 EDT Received Audio Message on Channel 2  
Audio Message Length: 019 seconds. [P.1]

Add Commer  
Acknowledge

\*\*\*\*\*  
05/11/05 11:38:24 EDT Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-EAS-RMT-037000+0100-1311537-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Monthly Test for the following counties: State of North Carolina.

Add Commer  
Acknowledge

Effective Until 05/11/05 12:37:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Monthly Test  
Origination Time: 05/11/05 11:37:00 EDT  
Expiration Time: 05/11/05 12:37:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
05/11/05 11:38:26 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-EAS-RMT-037000+0100-1311537-WYMY -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Monthly Test for the following counties: State of North Carolina.  
Effective Until 05/11/05 12:37:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Monthly Test  
Origination Time: 05/11/05 11:37:00 EDT  
Expiration Time: 05/11/05 12:37:00 EDT  
Status: Duplicate Message

\*\*\*\*\*  
05/11/05 11:38:26 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RMT-037000+0100-1311537-WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Monthly Test for the following counties: State of North Carolina.  
Effective Until 05/11/05 12:37:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Monthly Test  
Origination Time: 05/11/05 11:37:00 EDT  
Expiration Time: 05/11/05 12:37:00 EDT  
Status: Duplicate Message

\*\*\*\*\*  
05/11/05 11:38:29 EDT Transmit Log: EOM Initiated by an External Controller

\*\*\*\*\*  
05/11/05 11:38:59 EDT Receive Log: EOM Received from Channel: 4

Add Commer  
Acknowledge

\*\*\*\*\*  
05/11/05 11:38:59 EDT Receive Log: EOM Received from Channel: 1

Add Commer  
Acknowledge

\*\*\*\*\*  
05/11/05 11:39:27 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RMT-037000+0100-1311537-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Monthly Test for the following counties: State of North Carolina.  
Effective Until 05/11/05 12:37:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Monthly Test  
Origination Time: 05/11/05 11:37:00 EDT  
Expiration Time: 05/11/05 12:37:00 EDT  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*

05/11/05 11:40:11 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
05/11/05 11:49:48 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
05/12/05 11:23:03 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-1321521-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Bladen NC - Cumberland NC -  
Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
Scotland NC - Cumberland NC. Effective Until 05/12/05 12:21:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 05/12/05 11:21:00 EDT  
Expiration Time: 05/12/05 12:21:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged Th  
08:06:17 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/12/05 11:23:08 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
05/12/05 18:00:24 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037183+0045-1322200- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Wake NC. Effective  
Until 05/12/05 18:45:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 05/12/05 18:00:00 EDT  
Expiration Time: 05/12/05 18:45:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
05/12/05 18:00:44 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
05/12/05 18:01:13 EDT Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
05/12/05 18:01:15 EDT Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/12/05 18:09:15 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037183+0045-1322208-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Wake NC. Effective  
 Until 05/12/05 18:53:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/12/05 18:08:00 EDT  
 Expiration Time: 05/12/05 18:53:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/12/05 18:10:31 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/12/05 18:10:34 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037183+0045-1322208- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Wake NC. Effective  
 Until 05/12/05 18:53:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/12/05 18:08:00 EDT  
 Expiration Time: 05/12/05 18:53:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/12/05 18:11:44 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 05/12/05 20:59:04 EDT Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-1330058-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Chatham NC - Durham NC -  
 Franklin NC - Johnston NC - Orange NC - Wake NC - Granville NC - Harnett  
 NC - Lee NC - Moore NC - Person NC - Warren NC - Vance NC. Effective  
 Until 05/12/05 21:58:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/12/05 20:58:00 EDT  
 Expiration Time: 05/12/05 21:58:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 08:28:35 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/12/05 20:59:10 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 05/13/05 01:59:14 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1330612- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
 - Johnston NC - Harnett NC - Lee NC. Effective Until 05/13/05 02:27:00  
 EDT.

Acknowledged Fri  
 08:28:47 AM EDT  
 patrick.staley@tw

Add Commer



Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/13/05 02:12:00 EDT
Expiration Time: 05/13/05 02:27:00 EDT
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*
05/13/05 01:59:20 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*
05/13/05 02:13:35 EDT Receive Log: EAS Message Received from Channel: 4
EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015
-1330618-WZMY -
EAS Translation: A Broadcast Station or Cable System has issued a Required
Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe
NC - Nash NC - Halifax NC - Northampton NC. Effective Until 05/13/05
02:33:00 EDT.

Acknowledged Fri
08:28:54 AM EDT
patrick.staley@tw

Add Commer

Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/13/05 02:18:00 EDT
Expiration Time: 05/13/05 02:33:00 EDT
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*
05/13/05 02:13:41 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*
05/13/05 05:07:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS
EAS Header: ZCZC-EAS-RWT-037063+0015-1330907-TWC W -
EAS Translation: A Broadcast Station or Cable System has issued a Required
Weekly Test
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/13/05 05:07:00 EDT
Expiration Time: 05/13/05 05:22:00 EDT
Status: Forwarding Automatic RWT Message

Acknowledged Th
08:06:42 AM EDT
patrick.staley@tw

Add Commer

\*\*\*\*\*
05/13/05 05:07:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*
05/15/05 13:38:40 EDT Receive Log: EAS Message Received from Channel: 5
EAS Header: ZCZC-WXR-SVA-037037-037063-037069-037077-037085-037101-037105
-037125-037135-037181-037183-037185+0600-1351737-KRAH/NWS-
EAS Translation: The National Weather Service has issued a Severe
Thunderstorm Watch for the following counties: Chatham NC - Durham NC -
Franklin NC - Granville NC - Harnett NC - Johnston NC - Lee NC - Moore
NC - Orange NC - Vance NC - Wake NC - Warren NC. Effective Until
05/15/05 19:37:00 EDT.

Add Commer

Acknowledge

Originator: National Weather Service
Event: Severe Thunderstorm Watch
Origination Time: 05/15/05 13:37:00 EDT
Expiration Time: 05/15/05 19:37:00 EDT
Status: Event Not Selected by User

\*\*\*\*\*
05/15/05 13:39:39 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/15/05 14:50:33 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037069+0030-1351849-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Franklin NC. Effective  
 Until 05/15/05 15:19:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/15/05 14:49:00 EDT  
 Expiration Time: 05/15/05 15:19:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/15/05 14:51:48 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/15/05 14:51:52 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037069+0030-1351849- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Franklin NC. Effective  
 Until 05/15/05 15:19:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/15/05 14:49:00 EDT  
 Expiration Time: 05/15/05 15:19:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/15/05 14:52:59 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 05/15/05 15:33:43 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037125+0030-1351932-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Moore NC. Effective  
 Until 05/15/05 16:02:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/15/05 15:32:00 EDT  
 Expiration Time: 05/15/05 16:02:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/15/05 15:34:58 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/15/05 15:35:02 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037125+0030-1351932- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Moore NC. Effective  
 Until 05/15/05 16:02:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/15/05 15:32:00 EDT

Add Commer  
Acknowledge

Expiration Time: 05/15/05 16:02:00 EDT  
Status: Duplicate Message

\*\*\*\*\*  
05/15/05 15:36:10 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
05/15/05 15:39:12 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-WXR-SVR-037127+0030-1351930-WYMY -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Nash NC. Effective  
Until 05/15/05 16:00:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 05/15/05 15:30:00 EDT  
Expiration Time: 05/15/05 16:00:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
05/15/05 15:39:32 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
05/15/05 16:03:44 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-WXR-SVR-037127+0030-1352001-WYMY -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Nash NC. Effective  
Until 05/15/05 16:31:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 05/15/05 16:01:00 EDT  
Expiration Time: 05/15/05 16:31:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
05/15/05 16:04:55 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
05/15/05 16:46:11 EDT Receive Log: EAS Message Received from Channel: 4  
EAS Header: ZCZC-WXR-SVR-037065+0045-1352045-WYMY -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Edgecombe NC.  
Effective Until 05/15/05 17:30:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 05/15/05 16:45:00 EDT  
Expiration Time: 05/15/05 17:30:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
05/15/05 16:46:36 EDT Receive Log: EOM Received from Channel: 4

Comment added Mon 16 May 2005 08:58:17 AM EDT by patrick.staley@twcable.com:  
\*\*\*\*\*No RT logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
 05/16/05 11:52:27 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1361605- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
 - Johnston NC - Harnett NC - Lee NC. Effective Until 05/16/05 12:20:00  
 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/16/05 12:05:00 EDT  
 Expiration Time: 05/16/05 12:20:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W  
 10:14:52 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/16/05 11:52:33 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 05/16/05 12:25:52 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1361630-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe  
 NC - Nash NC - Halifax NC - Northampton NC. Effective Until 05/16/05  
 12:45:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/16/05 12:30:00 EDT  
 Expiration Time: 05/16/05 12:45:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W  
 10:14:56 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/16/05 12:25:58 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 05/16/05 15:29:21 EDT Telephone Access Session has been Initiated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 05/16/05 15:29:21 EDT  
 Telephone Session Duration: 00000 seconds

Acknowledged W  
 10:16:49 AM EDT  
 patrick.staley@tw

Comment added  
 10:17:18 AM EDT  
 patrick.staley@tw

Local testing

Add Commer

\*\*\*\*\*  
 05/16/05 15:29:44 EDT Transmit Log: Message Initiated by Telephone User 01  
 EAS Header: ZCZC-EAS-DMO-017177+0100-1361930-TWC W -  
 EAS Translation: A Broadcast Station or Cable System has issued a  
 Practice/Demo Warning for the following counties: Stephenson IL.  
 Effective Until 05/16/05 16:30:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Practice/Demo Warning  
 Origination Time: 05/16/05 15:30:00 EDT  
 Expiration Time: 05/16/05 16:30:00 EDT  
 Status: Forwarding Message

\*\*\*\*\*  
 05/16/05 15:29:57 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
 05/16/05 15:30:27 EDT Telephone Access Session has been Terminated

Comment added  
 10:17:34 AM EDT

Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/16/05 15:29:21 EDT  
Telephone Session Duration: 00066 seconds

patrick.staley@tw  
Local testing

\*\*\*\*\*  
05/17/05 14:40:49 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/17/05 14:40:49 EDT  
Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
05/17/05 14:41:07 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1371841-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.  
Effective Until 05/17/05 15:41:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 05/17/05 14:41:00 EDT  
Expiration Time: 05/17/05 15:41:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
05/17/05 14:41:19 EDT Transmit Log: EOM Initiated by Telephone, User 01

\*\*\*\*\*  
05/17/05 14:41:26 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/17/05 14:40:49 EDT  
Telephone Session Duration: 00037 seconds

Comment added 1  
10:17:59 AM EDT  
patrick.staley@tw  
Local testing

\*\*\*\*\*  
05/18/05 00:05:45 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/18/05 00:05:45 EDT  
Telephone Session Duration: 00000 seconds

Comment added 1  
10:17:59 AM EDT  
patrick.staley@tw  
Local testing

\*\*\*\*\*  
05/18/05 00:06:28 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1380406-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.  
Effective Until 05/18/05 01:06:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 05/18/05 00:06:00 EDT  
Expiration Time: 05/18/05 01:06:00 EDT  
Status: Forwarding Message

Acknowledged W  
10:18:22 AM EDT  
patrick.staley@tw  
Acknowledged W  
10:18:22 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/18/05 00:06:52 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/18/05 00:05:45 EDT  
Telephone Session Duration: 00067 seconds

\*\*\*\*\*  
05/18/05 00:07:03 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
05/18/05 00:07:28 EDT Telephone Access Session has been Initiated

Add Commer

Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/18/05 00:07:28 EDT  
Telephone Session Duration: 00000 seconds

Acknowledge

\*\*\*\*\*  
05/18/05 00:07:46 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/18/05 00:07:28 EDT  
Telephone Session Duration: 00018 seconds

\*\*\*\*\*  
05/18/05 11:15:27 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151-037085-037125+0015-1381507  
-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
Granville NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
Wake NC - Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
Effective Until 05/18/05 11:22:00 EDT.  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 05/18/05 11:07:00 EDT  
Expiration Time: 05/18/05 11:22:00 EDT  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
05/18/05 11:16:56 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
05/18/05 11:23:51 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-1381522-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Bladen NC - Cumberland NC -  
Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
Scotland NC - Cumberland NC. Effective Until 05/18/05 12:22:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 05/18/05 11:22:00 EDT  
Expiration Time: 05/18/05 12:22:00 EDT  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
05/18/05 11:23:57 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
05/19/05 02:40:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1390640-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 05/19/05 02:40:00 EDT  
Expiration Time: 05/19/05 02:55:00 EDT  
Status: Forwarding Automatic RWT Message

Acknowledged Th  
08:07:21 AM EDT  
patrick.staley@tw  
  
Acknowledged Th  
08:07:21 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/19/05 02:40:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
 05/19/05 15:02:36 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037135+0045-1391901-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/19/05 15:01:00 EDT  
 Expiration Time: 05/19/05 15:46:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/19/05 15:03:54 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/19/05 15:03:57 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037135+0045-1391901-WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/19/05 15:01:00 EDT  
 Expiration Time: 05/19/05 15:46:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/19/05 15:05:08 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 05/19/05 17:36:08 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-FFW-037001+0600-1392135-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Flash Flood  
 Warning  
 Originator: National Weather Service  
 Event: Flash Flood Warning  
 Origination Time: 05/19/05 17:35:00 EDT  
 Expiration Time: 05/19/05 23:35:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/19/05 17:37:18 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 05/19/05 18:52:29 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-WXR-SVR-037127+0030-1392250-WYMY -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 05/19/05 18:50:00 EDT  
 Expiration Time: 05/19/05 19:20:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/19/05 18:53:23 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 05/20/05 02:01:02 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVA-037001-037037-037063-037077-037105-037125-037135  
 -037145-037151+0600-1400559-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Watch  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Watch  
 Origination Time: 05/20/05 01:59:00 EDT  
 Expiration Time: 05/20/05 07:59:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/20/05 02:01:59 EDT Receive Log: EOM Received from Channel: 5  
 \*\*\*\*\*

\*\*\*\*\*  
 5/21/05 12:53:09 EDT Receive Log: EAS Message Received from Channel: 2  
 AS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-1411651-WDCG -  
 S Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/21/05 12:51:00 EDT  
 Expiration Time: 05/21/05 13:51:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Me  
 07:49:26 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 5/21/05 12:53:13 EDT Receive Log: EOM Received from Channel: 2  
 \*\*\*\*\*

\*\*\*\*\*  
 5/21/05 20:57:59 EDT Receive Log: EOM Received from Channel: 3  
 \*\*\*\*\*

Add Commer  
Acknowledge

added Mon 23 May 2005 07:50:06 AM EDT by patrick.staley@twcable.com:  
 RT logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
 5/21/05 08:56:05 EDT Receive Log: EOM Received from Channel: 3  
 \*\*\*\*\*

Comment added  
 08:09:15 AM EDT  
 patrick.staley@tw

WRDU som

Comment added  
 08:09:15 AM EDT  
 patrick.staley@tw

WRDU som

Add Commer



\*\*\*\*\*  
 05/24/05 10:59:21 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-1441501-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/24/05 11:01:00 EDT  
 Expiration Time: 05/24/05 11:16:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledge

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/24/05 10:59:25 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 05/24/05 18:04:19 EDT Telephone Access Session has been Initiated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 05/24/05 18:04:19 EDT  
 Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
 05/24/05 18:05:13 EDT Transmit Log: Message Initiated by Telephone User 01  
 Header: ZCZC-EAS-ADR-017177+0100-1442205-TWC W -  
 Translation: A Broadcast Station or Cable System has issued an  
 Administrative Message for the following counties: Stephenson IL.  
 Effective Until 05/24/05 19:05:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Administrative Message  
 Origination Time: 05/24/05 18:05:00 EDT  
 Expiration Time: 05/24/05 19:05:00 EDT  
 Status: Forwarding Message

\*\*\*\*\*  
 05/24/05 18:05:30 EDT Telephone Access Session has been Terminated  
 Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 05/24/05 18:04:19 EDT  
 Telephone Session Duration: 00071 seconds

\*\*\*\*\*  
 05/24/05 18:06:01 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
 05/24/05 10:53:45 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/24/05 19:13:00 EDT  
 Expiration Time: 05/24/05 19:28:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W/  
10:53:22 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/24/05 19:08:51 EDT Receive Log: EOM Received from Channel: 4  
\*\*\*\*\*

\*\*\*\*\*  
05/24/05 20:05:39 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-1450018- WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
- Johnston NC - Harnett NC - Lee NC. Effective Until 05/24/05 20:33:00  
EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 05/24/05 20:18:00 EDT  
Expiration Time: 05/24/05 20:33:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged W  
10:53:30 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/24/05 20:05:45 EDT Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
05/25/05 10:08:14 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/25/05 10:08:14 EDT  
Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
05/25/05 10:08:50 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1451409-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.  
Effective Until 05/25/05 11:09:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 05/25/05 10:09:00 EDT  
Expiration Time: 05/25/05 11:09:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
05/25/05 10:09:08 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 05/25/05 10:08:14 EDT  
Telephone Session Duration: 00054 seconds

\*\*\*\*\*  
05/25/05 10:09:22 EDT Transmit Log: EOM Initiated by Telephone User 01  
\*\*\*\*\*

\*\*\*\*\*  
05/25/05 11:50:29 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151-037085-037125+0015-1451545  
-RAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
Gaston NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
Effective Until 05/25/05 12:00:00 EDT.

Acknowledged Th  
08:58:30 AM EDT  
patrick.staley@tw

Acknowledged Th  
08:58:30 AM EDT  
patrick.staley@tw

Add Commer

Originator: National Weather Service
Event: Required Weekly Test
Origination Time: 05/25/05 11:45:00 EDT
Expiration Time: 05/25/05 12:00:00 EDT
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*
05/25/05 11:52:08 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*
05/26/05 09:07:38 EDT Telephone Access Session has been Initiated
Telephone Access User 01: Seymore Johnson AFB
Telephone Session Start Time: 05/26/05 09:07:38 EDT
Telephone Session Duration: 00000 seconds

Add Commer
Acknowledge

\*\*\*\*\*
05/26/05 09:08:19 EDT Transmit Log: Message Initiated by Telephone User 01
EAS Header: ZCZC-EAS-ADR-017177+0100-1461308-TWC W -
EAS Translation: A Broadcast Station or Cable System has issued an
Administrative Message for the following counties: Stephenson IL.
Effective Until 05/26/05 10:08:00 EDT.
Originator: Broadcast Station or Cable System
Event: Administrative Message
Origination Time: 05/26/05 09:08:00 EDT
Expiration Time: 05/26/05 10:08:00 EDT
Status: Forwarding Message

\*\*\*\*\*
05/26/05 09:08:36 EDT Telephone Access Session has been Terminated
Telephone Access User 01: Seymore Johnson AFB
Telephone Session Start Time: 05/26/05 09:07:38 EDT
Telephone Session Duration: 00058 seconds

\*\*\*\*\*
05/26/05 09:08:56 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*
05/26/05 13:03:47 EDT Telephone Access Session has been Initiated
Telephone Access User 01: Seymore Johnson AFB
Telephone Session Start Time: 05/26/05 13:03:47 EDT
Telephone Session Duration: 00000 seconds

Add Commer
Acknowledge

\*\*\*\*\*
05/26/05 13:05:04 EDT Transmit Log: Message Initiated by Telephone User 01
EAS Header: ZCZC-EAS-ADR-017177+0100-1461705-TWC W -
EAS Translation: A Broadcast Station or Cable System has issued an
Administrative Message for the following counties: Stephenson IL.
Effective Until 05/26/05 14:05:00 EDT.
Originator: Broadcast Station or Cable System
Event: Administrative Message
Origination Time: 05/26/05 13:05:00 EDT
Expiration Time: 05/26/05 14:05:00 EDT
Status: Forwarding Message

\*\*\*\*\*
/26/05 13:05:20 EDT Telephone Access Session has been Terminated
Telephone Access User 01: Seymore Johnson AFB
Telephone Session Start Time: 05/26/05 13:03:47 EDT
Telephone Session Duration: 00093 seconds

\*\*\*\*\*  
05/26/05 13:06:13 EDT Transmit Log: EOM Initiated by Telephone User 01  
\*\*\*\*\*

\*\*\*\*\*  
05/26/05 21:17:13 EDT Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
-037085-037105-037125-037145-037185-037181+0100-1470115-WDCG  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Chatham NC - Durham NC -  
Franklin NC - Johnston NC - Orange NC - Wake NC - Granville NC - Harnett  
NC - Lee NC - Moore NC - Person NC - Warren NC - Vance NC. Effective  
Until 05/26/05 22:15:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Expiration Time: 05/26/05 21:15:00 EDT  
Expiration Time: 05/26/05 22:15:00 EDT  
Status: Message Logged, User will Manually Send Message  
\*\*\*\*\*

Acknowledged Fri  
08:34:29 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
5/26/05 21:17:16 EDT Receive Log: EOM Received from Channel: 2  
\*\*\*\*\*

\*\*\*\*\*  
05/27/05 04:45:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
Header: ZCZC-EAS-RWT-037063+0015-1470845-TWC W  
Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Expiration Time: 05/27/05 04:45:00 EDT  
Expiration Time: 05/27/05 05:00:00 EDT  
Status: Forwarding Automatic RWT Message  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
05/27/05 04:45:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS  
\*\*\*\*\*  
added Tue 31 May 2005 08:35:33 AM EDT by patrick.staley@twcable.com:  
RTs logged from WRDU.\*\*\*\*\*

\*\*\*\*\*  
05/31/05 10:50:33 EDT Receive Log: EAS Message Received from Channel: 2  
Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
-037105-037125-037145-037185-037181+0100-1511448-WDCG  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Expiration Time: 05/31/05 10:48:00 EDT  
Expiration Time: 05/31/05 11:48:00 EDT  
Status: Message Logged, User will Manually Send Message  
\*\*\*\*\*

Acknowledged W,  
10:51:13 AM EDT  
patrick.staley@tw

Acknowledged W,  
10:51:13 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
05/31/05 11:39 EDT Receive Log: EOM Received from Channel: 2  
\*\*\*\*\*

\*\*\*\*\*  
 05/31/05 10:50:33 EDT Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-1511448-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 05/31/05 10:48:00 EDT  
 Expiration Time: 05/31/05 11:48:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged W  
 10:51:13 AM EDT  
 patrick.staley@tw  
 Acknowledged W  
 10:51:13 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 05/31/05 10:50:39 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 06/01/05 12:03:29 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-1521556  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 06/01/05 11:56:00 EDT  
 Expiration Time: 06/01/05 12:11:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Th  
 08:39:30 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/01/05 12:04:54 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/01/05 12:06:13 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-1521604-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/01/05 12:04:00 EDT  
 Expiration Time: 06/01/05 13:04:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/01/05 12:06:18 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/01/05 12:14:03 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-WXR-RWT-037183-037191-037195-037101-037085-037063-037069  
 -037127+0015-1521553-WYMY -  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 06/01/05 11:53:00 EDT  
 Expiration Time: 06/01/05 12:08:00 EDT  
 Status: Message Expired

Acknowledged Th  
 08:39:37 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
06/01/05 12:15:26 EDT Receive Log: EOM Received from Channel: 4  
\*\*\*\*\*

\*\*\*\*\*  
06/01/05 14:31:49 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-1521834-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/01/05 14:34:00 EDT  
Expiration Time: 06/01/05 14:49:00 EDT  
Status: Message Logged, User will Manually Send Message  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
06/01/05 14:31:53 EDT Receive Log: EOM Received from Channel: 6  
\*\*\*\*\*

\*\*\*\*\*  
06/01/05 14:53:42 EDT Receive Log: EOM Received from Channel: 3  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*  
\*\*\*\*\*  
06/01/05 21:41:48 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
-1530154- WQDR -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/01/05 21:54:00 EDT  
Expiration Time: 06/01/05 22:09:00 EDT  
Status: Message Logged, User will Manually Send Message  
\*\*\*\*\*

Acknowledged Th  
08:39:46 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
06/01/05 21:41:54 EDT Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
06/02/05 01:07:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1530507-TWC W  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/02/05 01:07:00 EDT  
Expiration Time: 06/02/05 01:22:00 EDT  
Status: Forwarding Automatic RWT Message  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
06/02/05 01:07:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS  
\*\*\*\*\*

\*\*\*\*\*  
 06/02/05 15:48:08 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-FFA-037151+0600-1531937-KRAH/NWS-  
 Translation: The National Weather Service has issued a Flash Flood Watch  
 Originator: National Weather Service  
 Event: Flash Flood Watch  
 Origination Time: 06/02/05 15:37:00 EDT  
 Expiration Time: 06/02/05 21:37:00 EDT  
 Status: Event Not Selected by User  
 \*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/02/05 15:49:24 EDT Receive Log: EOM Received from Channel: 5  
 \*\*\*\*\*

\*\*\*\*\*  
 06/03/05 04:32:04 EDT Telephone Access Session has been Initiated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/03/05 04:32:04 EDT  
 Telephone Session Duration: 00000 seconds  
 \*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/03/05 04:32:36 EDT Transmit Log: Message Initiated by Telephone User 01  
 EAS Header: ZCZC-EAS-ADR-017177+0100-1540833-TWC W  
 Translation: A Broadcast Station or Cable System has issued an  
 Administrative Message for the following counties: Stephenson IL.  
 Originator: Broadcast Station or Cable System  
 Effective Until 06/03/05 05:33:00 EDT.  
 Event: Administrative Message  
 Origination Time: 06/03/05 04:33:00 EDT  
 Expiration Time: 06/03/05 05:33:00 EDT  
 Status: Forwarding Message  
 \*\*\*\*\*

\*\*\*\*\*  
 06/03/05 04:32:58 EDT Transmit Log: EOM Initiated by Telephone User 01  
 \*\*\*\*\*

\*\*\*\*\*  
 06/03/05 04:33:00 EDT Telephone Access Session has been Terminated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/03/05 04:32:04 EDT  
 Telephone Session Duration: 00056 seconds  
 \*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/03/05 03:37:37 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-CIV-RMT-037000+0200-1550735- WQDR  
 Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 06/04/05 05:35:00 EDT.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 06/04/05 03:35:00 EDT  
 Expiration Time: 06/04/05 05:35:00 EDT  
 Status: Message Logged, External Controller will Send Message  
 \*\*\*\*\*

\*\*\*\*\*  
 06/03/05 03:37:48 EDT Received Attention Tone on Channel 1  
 Attention Tone Length: 08 seconds.  
 \*\*\*\*\*

\*\*\*\*\*  
 06/03/05 03:38:00 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-CIV-RMT-037000+0200-1550735-WKML FM -  
 Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 06/04/05 05:35:00 EDT.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 06/04/05 03:35:00 EDT  
 Expiration Time: 06/04/05 05:35:00 EDT  
 Status: Message Logged, External Controller will Send Message  
 \*\*\*\*\*

the following counties: State of North Carolina. Effective Until  
06/04/05 05:35:00 EDT.

Originator: Civil Authorities  
Event: Required Monthly Test  
Origination Time: 06/04/05 03:35:00 EDT  
Expiration Time: 06/04/05 05:35:00 EDT  
Status: Duplicate Message

\*\*\*\*\*  
06/04/05 03:38:18 EDT Receive Log: EOM Received from Channel: 1

Add Commer  
Acknowledge

\*\*\*\*\*  
06/04/05 03:38:18 EDT Received Audio Message on Channel 1  
Audio Message Length: 028 seconds. P.L.

Add Commer  
Acknowledge

\*\*\*\*\*  
06/04/05 03:38:19 EDT Transmit Log: External Controller Initiated EAS Message  
EAS Header: ZCZC-CIV-RMT-037000+0200-1550735-TWC W -  
EAS Translation: Civil Authorities have issued a Required Monthly Test for  
the following counties: State of North Carolina. Effective Until  
06/04/05 05:35:00 EDT.  
Originator: Civil Authorities  
Event: Required Monthly Test  
Origination Time: 06/04/05 03:35:00 EDT  
Expiration Time: 06/04/05 05:35:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
06/04/05 03:38:24 EDT Transmit Log: EOM Initiated by an External Controller

Add Commer  
Acknowledge

\*\*\*\*\*  
06/04/05 03:38:43 EDT Receive Log: EOM Received from Channel: 6

Acknowledged Tu  
08:18:25 AM EDT  
patrick.staley@tw

\*\*\*\*\*  
06/04/05 03:39:37 EDT Receive Log: EAS Message Received from Channel: 2  
EAS Header: ZCZC-CIV-RMT-037000+0200-1550735-WDCG -  
EAS Translation: Civil Authorities have issued a Required Monthly Test for  
the following counties: State of North Carolina. Effective Until  
06/04/05 05:35:00 EDT.  
Originator: Civil Authorities  
Event: Required Monthly Test  
Origination Time: 06/04/05 03:35:00 EDT  
Expiration Time: 06/04/05 05:35:00 EDT  
Status: Duplicate Message

Add Commer

\*  
\*\*\*\*\*  
06/04/05 03:40:17 EDT Receive Log: EOM Received from Channel: 2



\*\*\*\*\*  
 06/04/05 03:40:20 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-CIV-RMT-037000+0200-1550735-WYMY -  
 EAS Translation: Civil Authorities have issued a Required Monthly Test for  
 the following counties: State of North Carolina. Effective Until  
 06/04/05 05:35:00 EDT.  
 Originator: Civil Authorities  
 Event: Required Monthly Test  
 Origination Time: 06/04/05 03:35:00 EDT  
 Expiration Time: 06/04/05 05:35:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/04/05 03:41:01 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 06/04/05 03:45:04 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/05/05 06:15:27 EDT Telephone Access Session has been Initiated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/05/05 06:15:27 EDT  
 Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/05/05 06:16:26 EDT Transmit Log: Message Initiated by Telephone User 01  
 EAS Header: ZCZC-EAS-ADR-017177+0100-1561016-TWC W -  
 EAS Translation: A Broadcast Station or Cable System has issued an  
 Administrative Message for the following counties: Stephenson IL.  
 Effective Until 06/05/05 07:16:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Administrative Message  
 Origination Time: 06/05/05 06:16:00 EDT  
 Expiration Time: 06/05/05 07:16:00 EDT  
 Status: Forwarding Message

\*\*\*\*\*  
 06/05/05 06:17:14 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
 06/05/05 06:17:25 EDT Telephone Access Session has been Terminated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/05/05 06:15:27 EDT  
 Telephone Session Duration: 00118 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/06/05 02:06:18 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
 EAS Header: ZCZC-EAS-RWT-037063+0015-1570606-TWC W -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/06/05 02:06:00 EDT  
 Expiration Time: 06/06/05 02:21:00 EDT  
 Status: Forwarding Automatic RWT Message

\*\*\*\*\*  
06/06/05 02:06:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS  
\*\*\*\*\*

\*\*\*\*\*  
06/06/05 17:34:20 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/06/05 17:34:20 EDT  
Telephone Session Duration: 00000 seconds  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
06/06/05 17:35:10 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1572135-TWC W  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.  
Effective Until 06/06/05 18:35:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 06/06/05 17:35:00 EDT  
Expiration Time: 06/06/05 18:35:00 EDT  
Status: Forwarding Message  
\*\*\*\*\*

\*\*\*\*\*  
06/06/05 17:35:27 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/06/05 17:34:20 EDT  
Telephone Session Duration: 00067 seconds  
\*\*\*\*\*

\*\*\*\*\*  
6/06/05 17:35:51 EDT Transmit Log: EOM Initiated by Telephone User 01  
\*\*\*\*\*

\*\*\*\*\*  
06/06/05 17:40:49 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/06/05 17:40:49 EDT  
Telephone Session Duration: 00000 seconds  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
6/06/05 17:41:45 EDT Error, No Response from External Controller  
\*\*\*\*\*  
06/06/05 17:41:57 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/06/05 17:40:49 EDT  
Telephone Session Duration: 00068 seconds  
\*\*\*\*\*

\*\*\*\*\*  
06/06/05 22:59:43 EDT Receive Log: EOM Received from Channel: 3  
\*\*\*\*\*

\*\*\*\*\*  
Added Tue 07 Jun 2005 08:19:18 AM EDT by patrick.staley@twcable.com:  
EOMs logged from WRDU.\*\*\*\*\*  
\*\*\*\*\*

\*\*\*\*\*  
15. 06/06/05 08:45 EDT Receive Log: EAS Message Received from Channel: 5  
Header: ZCZC-WXR-SVR-037185+0030-1581859-KRAH/NWS-  
Translation: The National Weather Service has issued a Severe  
\*\*\*\*\*

Add Commer  
Acknowledge

Thunderstorm Warning for the following counties: Warren NC. Effective  
 Until 06/07/05 15:29:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 14:59:00 EDT  
 Expiration Time: 06/07/05 15:29:00 EDT  
 Status: Event Not Selected by User

\*\*\*\*\*  
 06/07/05 15:03:10 EDT Receive Log: EOM Received from Channel: 5

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\*\*\*\*\*  
 06/07/05 15:31:36 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037063+0045-1581929-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Durham NC. Effective  
 Until 06/07/05 16:14:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 15:29:00 EDT  
 Expiration Time: 06/07/05 16:14:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 15:33:00 EDT Receive Log: EOM Received from Channel: 5

---

\*\*\*\*\*  
 06/07/05 15:33:04 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037063+0045-1581929-WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Durham NC. Effective  
 Until 06/07/05 16:14:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 15:29:00 EDT  
 Expiration Time: 06/07/05 16:14:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 15:34:21 EDT Receive Log: EOM Received from Channel: 1

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\*\*\*\*\*  
 06/07/05 15:52:16 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037185+0045-1581950-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Warren NC. Effective  
 Until 06/07/05 16:35:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 15:50:00 EDT  
 Expiration Time: 06/07/05 16:35:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 15:53:31 EDT Receive Log: EOM Received from Channel: 5

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\*\*\*\*\*  
 06/07/05 16:07:43 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037069+0045-1582004-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Franklin NC. Effective  
 Until 06/07/05 16:49:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 16:04:00 EDT  
 Expiration Time: 06/07/05 16:49:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 16:09:17 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/07/05 16:09:22 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-WXR-SVR-037069-037127+0045-1582004-WYMY -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Franklin NC - Nash NC.  
 Effective Until 06/07/05 16:49:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 16:04:00 EDT  
 Expiration Time: 06/07/05 16:49:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 16:10:49 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 06/07/05 16:27:23 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-FFW-037063+0230-1582025-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Flash Flood  
 Warning for the following counties: Durham NC. Effective Until 06/07/05  
 18:55:00 EDT.  
 Originator: National Weather Service  
 Event: Flash Flood Warning  
 Origination Time: 06/07/05 16:25:00 EDT  
 Expiration Time: 06/07/05 18:55:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 16:28:39 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/07/05 16:28:43 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-FFW-037063+0230-1582025- WQDR -  
 EAS Translation: The National Weather Service has issued a Flash Flood  
 Warning for the following counties: Durham NC. Effective Until 06/07/05  
 18:55:00 EDT.  
 Originator: National Weather Service  
 Event: Flash Flood Warning  
 Origination Time: 06/07/05 16:25:00 EDT  
 Expiration Time: 06/07/05 18:55:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 16:29:52 EDT Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
06/07/05 16:42:23 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037001+0045-1582040-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Alamance NC. Effective  
Until 06/07/05 17:25:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/07/05 16:40:00 EDT  
Expiration Time: 06/07/05 17:25:00 EDT  
Status: Event Not Selected by User  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 16:43:36 EDT Receive Log: EOM Received from Channel: 5  
\*\*\*\*\*

\*\*\*\*\*  
06/07/05 16:55:20 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037183+0030-1582053-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Wake NC. Effective  
Until 06/07/05 17:23:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/07/05 16:53:00 EDT  
Expiration Time: 06/07/05 17:23:00 EDT  
Status: Event Not Selected by User  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
07/05 16:56:48 EDT Receive Log: EOM Received from Channel: 5  
\*\*\*\*\*

\*\*\*\*\*  
07/05 16:56:52 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037183+0030-1582053-WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Wake NC. Effective  
Until 06/07/05 17:23:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/07/05 16:53:00 EDT  
Expiration Time: 06/07/05 17:23:00 EDT  
Duplicate Message  
\*\*\*\*\*

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 16:58:13 EDT Receive Log: EOM Received from Channel: 1  
\*\*\*\*\*

\*\*\*\*\*  
06/07/05 17:13:20 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-FFW-037001+0200-1582110-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Flash Flood  
Warning for the following counties: Alamance NC. Effective Until  
06/07/05 19:10:00 EDT.  
\*\*\*\*\*

Add Commer  
Acknowledge

Originator: National Weather Service  
Event: Flash Flood Warning  
Origination Time: 06/07/05 17:10:00 EDT  
Expiration Time: 06/07/05 19:10:00 EDT  
Status: Event Not Selected by User

\*\*\*\*\*  
06/07/05 17:14:39 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
06/07/05 17:18:52 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037183+0100-1582116-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Wake NC. Effective  
Until 06/07/05 18:16:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/07/05 17:16:00 EDT  
Expiration Time: 06/07/05 18:16:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 17:20:16 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
06/07/05 17:20:20 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037183+0100-1582116- WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Wake NC. Effective  
Until 06/07/05 18:16:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/07/05 17:16:00 EDT  
Expiration Time: 06/07/05 18:16:00 EDT  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 17:20:22 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-FFW-037183+0200-1582116-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Flash Flood  
Warning for the following counties: Wake NC. Effective Until 06/07/05  
19:16:00 EDT.  
Originator: National Weather Service  
Event: Flash Flood Warning  
Origination Time: 06/07/05 17:16:00 EDT  
Expiration Time: 06/07/05 19:16:00 EDT  
Status: Event Not Selected by User

\*\*\*\*\*  
06/07/05 17:21:37 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
06/07/05 17:21:40 EDT Receive Log: EOM Received from Channel: 5

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 17:21:46 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037037+0030-1582117-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Chatham NC. Effective  
 Until 06/07/05 17:47:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 17:17:00 EDT  
 Expiration Time: 06/07/05 17:47:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 17:23:02 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/07/05 17:23:05 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037037+0030-1582117- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Chatham NC. Effective  
 Until 06/07/05 17:47:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 17:17:00 EDT  
 Expiration Time: 06/07/05 17:47:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 17:24:15 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 06/07/05 17:36:12 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037037+0045-1582134-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Chatham NC. Effective  
 Until 06/07/05 18:19:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 17:34:00 EDT  
 Expiration Time: 06/07/05 18:19:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/07/05 17:37:25 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/07/05 17:37:28 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-WXR-SVR-037037+0045-1582134- WQDR -  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning for the following counties: Chatham NC. Effective  
 Until 06/07/05 18:19:00 EDT.  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/07/05 17:34:00 EDT  
 Expiration Time: 06/07/05 18:19:00 EDT  
 Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 17:38:34 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
06/07/05 18:33:27 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037151+0030-1582231-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Randolph NC. Effective  
Until 06/07/05 19:01:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/07/05 18:31:00 EDT  
Expiration Time: 06/07/05 19:01:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 18:34:42 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
06/07/05 19:18:49 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/07/05 19:18:49 EDT  
Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 19:19:33 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1582319-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.  
Effective Until 06/07/05 20:19:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 06/07/05 19:19:00 EDT  
Expiration Time: 06/07/05 20:19:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
06/07/05 19:19:50 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/07/05 19:18:49 EDT  
Telephone Session Duration: 00061 seconds

\*\*\*\*\*  
06/07/05 19:20:11 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
06/07/05 20:54:55 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/07/05 20:54:55 EDT  
Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 20:55:34 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1590056-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.



Effective Until 06/07/05 21:56:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 06/07/05 20:56:00 EDT  
Expiration Time: 06/07/05 21:56:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
06/07/05 20:55:50 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/07/05 20:54:55 EDT  
Telephone Session Duration: 00055 seconds

\*\*\*\*\*  
06/07/05 20:56:08 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
06/07/05 21:11:31 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/07/05 21:11:31 EDT  
Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
06/07/05 21:12:13 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/07/05 21:11:31 EDT  
Telephone Session Duration: 00042 seconds

\*\*\*\*\*  
06/09/05 10:28:16 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037051+0015-1601430-WKML FM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Cumberland NC. Effective Until  
06/09/05 10:45:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/09/05 10:30:00 EDT  
Expiration Time: 06/09/05 10:45:00 EDT  
Status: Message Logged, User will Manually Send Message

\*\*\*\*\*  
06/09/05 10:28:21 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
06/09/05 10:54:10 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-1601451-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test for the following counties: Bladen NC - Cumberland NC -  
Duplin NC - Harnett NC - Hoke NC - Moore NC - Robeson NC - Sampson NC -  
Scotland NC - Cumberland NC. Effective Until 06/09/05 11:51:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/09/05 10:51:00 EDT  
Expiration Time: 06/09/05 11:51:00 EDT  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/09/05 10:54:16 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/09/05 12:39:34 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1601643-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wayne NC - Wilson NC - Edgecombe  
 NC - Nash NC - Halifax NC - Northampton NC. Effective Until 06/09/05  
 12:58:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/09/05 12:43:00 EDT  
 Expiration Time: 06/09/05 12:58:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 09:54:47 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/09/05 12:39:40 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 06/09/05 13:24:39 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1601737-WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test for the following counties: Wake NC - Chatham NC - Durham NC  
 - Johnston NC - Harnett NC - Lee NC. Effective Until 06/09/05 13:52:00  
 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/09/05 13:37:00 EDT  
 Expiration Time: 06/09/05 13:52:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Fri  
 09:54:54 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/09/05 13:24:45 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 06/09/05 14:55:57 EDT Telephone Access Session has been Initiated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/09/05 14:55:57 EDT  
 Telephone Session Duration: 00000 seconds

Add Commer

Acknowledge

\*\*\*\*\*  
 06/09/05 14:56:33 EDT Transmit Log: Message Initiated by Telephone User 01  
 EAS Header: ZCZC-EAS-ADR-017177+0100-1601856-TWC W -  
 EAS Translation: A Broadcast Station or Cable System has issued an  
 Administrative Message for the following counties: Stephenson IL.  
 Effective Until 06/09/05 15:56:00 EDT.  
 Originator: Broadcast Station or Cable System  
 Event: Administrative Message  
 Origination Time: 06/09/05 14:56:00 EDT  
 Expiration Time: 06/09/05 15:56:00 EDT  
 Status: Forwarding Message

\*\*\*\*\*  
 06/09/05 14:56:53 EDT Telephone Access Session has been Terminated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/09/05 14:55:57 EDT  
 Telephone Session Duration: 00056 seconds

\*\*\*\*\*

06/09/05 14:56:58 EDT Transmit Log: EOM Initiated by Telephone User 01

Add Commer  
Acknowledge

\*\*\*\*\*  
06/09/05 15:58:34 EDT Telephone Access Session has been Initiated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/09/05 15:58:34 EDT  
Telephone Session Duration: 00000 seconds

\*\*\*\*\*  
06/09/05 15:59:19 EDT Transmit Log: Message Initiated by Telephone User 01  
EAS Header: ZCZC-EAS-ADR-017177+0100-1601959-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued an  
Administrative Message for the following counties: Stephenson IL.  
Effective Until 06/09/05 16:59:00 EDT.  
Originator: Broadcast Station or Cable System  
Event: Administrative Message  
Origination Time: 06/09/05 15:59:00 EDT  
Expiration Time: 06/09/05 16:59:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
06/09/05 15:59:45 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/09/05 15:58:34 EDT  
Telephone Session Duration: 00071 seconds

\*\*\*\*\*  
06/09/05 15:59:56 EDT Transmit Log: EOM Initiated by Telephone User 01

Add Commer  
Acknowledge

\*\*\*\*\*  
06/09/05 17:30:35 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-FFW-037125+0200-1602128-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Flash Flood  
Warning for the following counties: Moore NC. Effective Until 06/09/05  
19:28:00 EDT.  
Originator: National Weather Service  
Event: Flash Flood Warning  
Origination Time: 06/09/05 17:28:00 EDT  
Expiration Time: 06/09/05 19:28:00 EDT  
Status: Event Not Selected by User

\*\*\*\*\*  
06/09/05 17:31:12 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-FFW-037125+0130-1602130-WQDR -  
EAS Translation: The National Weather Service has issued a Flash Flood  
Warning for the following counties: Moore NC. Effective Until 06/09/05  
19:00:00 EDT.  
Originator: National Weather Service  
Event: Flash Flood Warning  
Origination Time: 06/09/05 17:30:00 EDT  
Expiration Time: 06/09/05 19:00:00 EDT  
Status: Event Not Selected by User

\*\*\*\*\*  
06/09/05 17:31:27 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
06/09/05 17:31:52 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
06/09/05 23:48:34 EDT Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

Comment added Mon 13 Jun 2005 09:04:58 AM EDT by patrick.staley@twcable.com:  
\*\*\*\*\*No RTs logged from WDCG,WRDU,NWS.\*\*\*\*\*

\*\*\*\*\*  
06/14/05 04:29:19 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1650829-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/14/05 04:29:00 EDT  
Expiration Time: 06/14/05 04:44:00 EDT  
Status: Forwarding Automatic RWT Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/14/05 04:29:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
06/15/05 11:12:49 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
-037145-037181-037183-037185-037001-037151-037085-037125+0015-1661506  
-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Required Weekly  
Test  
Originator: National Weather Service  
Event: Required Weekly Test  
Origination Time: 06/15/05 11:06:00 EDT  
Expiration Time: 06/15/05 11:21:00 EDT  
Status: Message Logged, User will Manually Send Message

Acknowledged Th  
08:53:25 AM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
06/15/05 11:14:15 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
06/15/05 14:25:12 EDT Receive Log: EAS Message Received from Channel: 6  
EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
-037163-037165-037051+0100-1661822-WQSM -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/15/05 14:22:00 EDT  
Expiration Time: 06/15/05 15:22:00 EDT  
Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/15/05 14:25:17 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/17/05 14:28:56 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-1681830-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/17/05 14:30:00 EDT  
 Expiration Time: 06/17/05 14:45:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/17/05 14:29:00 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/17/05 23:11:44 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1690324- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/17/05 23:24:00 EDT  
 Expiration Time: 06/17/05 23:39:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Mc  
 12:45:52 PM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/17/05 23:11:50 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 06/17/05 23:24:26 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1690328-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/17/05 23:28:00 EDT  
 Expiration Time: 06/17/05 23:43:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Mc  
 12:46:01 PM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/17/05 23:24:32 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 06/18/05 03:47:18 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/18/05 22:55:43 EDT Receive Log: EOM Received from Channel: 2

Add Commer

Acknowledge

\*\*\*\*\*  
 06/19/05 18:16:01 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-SVR-037151+0030-1702213-KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Severe  
 Thunderstorm Warning  
 Originator: National Weather Service  
 Event: Severe Thunderstorm Warning  
 Origination Time: 06/19/05 18:13:00 EDT  
 Expiration Time: 06/19/05 18:43:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/19/05 18:17:15 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/19/05 23:57:01 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/20/05 09:54:52 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1711407- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/20/05 10:07:00 EDT  
 Expiration Time: 06/20/05 10:22:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Mc  
12:46:10 PM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/20/05 09:54:58 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 06/20/05 09:56:37 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1711359-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/20/05 09:59:00 EDT  
 Expiration Time: 06/20/05 10:14:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Mc  
12:46:17 PM EDT  
patrick.staley@tw

Acknowledged Mc  
12:46:17 PM EDT  
patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/20/05 09:56:43 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*No RTs logged from WDCG,WRDU.\*\*\*\*\*

\*\*\*\*\*  
 06/20/05 15:49:41 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-1711951-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/20/05 15:51:00 EDT  
 Expiration Time: 06/20/05 16:06:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/20/05 15:49:45 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/20/05 15:53:12 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037051+0015-1711955-WKML FM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/20/05 15:55:00 EDT  
 Expiration Time: 06/20/05 16:10:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/20/05 15:53:16 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/20/05 23:39:27 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/22/05 11:12:37 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-1731508  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 06/22/05 11:08:00 EDT  
 Expiration Time: 06/22/05 11:23:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 10:03:52 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/22/05 11:14:04 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/23/05 11:24:45 EDT Receive Log: EAS Message Received from Channel: 6  
 EAS Header: ZCZC-EAS-RWT-037017-037051-037061-037085-037093-037125-037155  
 -037163-037165-037051+0100-1741521-WQSM -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/23/05 11:21:00 EDT  
 Expiration Time: 06/23/05 12:21:00 EDT  
 Status: Message Logged, User will Manually Send Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/23/05 11:24:50 EDT Receive Log: EOM Received from Channel: 6

\*\*\*\*\*  
 06/23/05 23:18:28 EDT Receive Log: EAS Message Received from Channel: 2  
 EAS Header: ZCZC-EAS-RWT-037037-037063-037069-037101-037135-037183-037077  
 -037085-037105-037125-037145-037185-037181+0100-1750315-WDCG -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/23/05 23:15:00 EDT  
 Expiration Time: 06/24/05 00:15:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 10:03:59 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/23/05 23:18:35 EDT Receive Log: EOM Received from Channel: 2

\*\*\*\*\*  
 06/24/05 01:04:19 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
 EAS Header: ZCZC-EAS-RWT-037063+0015-1750504-TWC W -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/24/05 01:04:00 EDT  
 Expiration Time: 06/24/05 01:19:00 EDT  
 Status: Forwarding Automatic RWT Message

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/24/05 01:04:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
 06/24/05 04:42:23 EDT Telephone Access Session has been Initiated  
 Telephone Access User 01: Seymore Johnson AFB  
 Telephone Session Start Time: 06/24/05 04:42:23 EDT  
 Telephone Session Duration: 00000 seconds

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/24/05 04:42:51 EDT Transmit Log: Message Initiated by Telephone User 01  
 EAS Header: ZCZC-EAS-ADR-017177+0100-1750843-TWC W -  
 EAS Translation: A Broadcast Station or Cable System has issued an  
 Administrative Message for the following counties: Stephenson IL.  
 Effective Until 06/24/05 05:43:00 EDT.  
 Originator: Broadcast Station or Cable System



Event: Administrative Message  
Origination Time: 06/24/05 04:43:00 EDT  
Expiration Time: 06/24/05 05:43:00 EDT  
Status: Forwarding Message

\*\*\*\*\*  
06/24/05 04:43:11 EDT Telephone Access Session has been Terminated  
Telephone Access User 01: Seymore Johnson AFB  
Telephone Session Start Time: 06/24/05 04:42:23 EDT  
Telephone Session Duration: 00048 seconds

\*\*\*\*\*  
06/24/05 04:43:13 EDT Transmit Log: EOM Initiated by Telephone User 01

\*\*\*\*\*  
06/27/05 18:57:53 EDT Receive Log: EAS Message Received from Channel: 5  
EAS Header: ZCZC-WXR-SVR-037135+0045-1782255-KRAH/NWS-  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Orange NC. Effective  
Until 06/27/05 19:40:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/27/05 18:55:00 EDT  
Expiration Time: 06/27/05 19:40:00 EDT  
Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
06/27/05 18:59:06 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
06/27/05 18:59:10 EDT Receive Log: EAS Message Received from Channel: 1  
EAS Header: ZCZC-WXR-SVR-037135+0045-1782255-WQDR -  
EAS Translation: The National Weather Service has issued a Severe  
Thunderstorm Warning for the following counties: Orange NC. Effective  
Until 06/27/05 19:40:00 EDT.  
Originator: National Weather Service  
Event: Severe Thunderstorm Warning  
Origination Time: 06/27/05 18:55:00 EDT  
Expiration Time: 06/27/05 19:40:00 EDT  
Status: Duplicate Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/27/05 19:00:17 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
06/28/05 03:56:19 EDT Transmit Log: EAS Message Auto Generated by EASyPLUS  
EAS Header: ZCZC-EAS-RWT-037063+0015-1790756-TWC W -  
EAS Translation: A Broadcast Station or Cable System has issued a Required  
Weekly Test  
Originator: Broadcast Station or Cable System  
Event: Required Weekly Test  
Origination Time: 06/28/05 03:56:00 EDT  
Expiration Time: 06/28/05 04:11:00 EDT  
Status: Forwarding Automatic RWT Message

Add Commer  
Acknowledge

\*\*\*\*\*  
06/28/05 03:56:24 EDT Transmit Log: EOM Auto Generated by EASy PLUS

\*\*\*\*\*  
 06/28/05 04:08:21 EDT Receive Log: EAS Message Received from Channel: 1  
 EAS Header: ZCZC-EAS-RWT-037183-037037-037063-037101-037085-037105+0015  
 -1790820- WQDR -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/28/05 04:20:00 EDT  
 Expiration Time: 06/28/05 04:35:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 09:49:32 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/28/05 04:08:27 EDT Receive Log: EOM Received from Channel: 1

\*\*\*\*\*  
 06/28/05 04:15:33 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-EAS-RWT-037191-037195-037065-037127-037083-037131+0015  
 -1790818-WYMY -  
 EAS Translation: A Broadcast Station or Cable System has issued a Required  
 Weekly Test  
 Originator: Broadcast Station or Cable System  
 Event: Required Weekly Test  
 Origination Time: 06/28/05 04:18:00 EDT  
 Expiration Time: 06/28/05 04:33:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 09:55:04 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/28/05 04:15:39 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 06/28/05 12:44:13 EDT Receive Log: EOM Received from Channel: 2

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/28/05 14:50:46 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-FFA-037145-037077-037181-037185-037001-037135-037063  
 -037069-037151-037037-037183-037101-037125-037105-037085+0600-1791843  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Flash Flood Watch  
 Originator: National Weather Service  
 Event: Flash Flood Watch  
 Origination Time: 06/28/05 14:43:00 EDT  
 Expiration Time: 06/28/05 20:43:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/28/05 14:52:06 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*

06/28/05 15:06:19 EDT Receive Log: EAS Message Received from Channel: 4  
 EAS Header: ZCZC-WXR-FFW-037065+0130-1791900-WYMY -  
 EAS Translation: The National Weather Service has issued a Flash Flood  
 Warning  
 Originator: National Weather Service  
 Event: Flash Flood Warning  
 Origination Time: 06/28/05 15:00:00 EDT  
 Expiration Time: 06/28/05 16:30:00 EDT  
 Status: Event Not Selected by User

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/28/05 15:06:44 EDT Receive Log: EOM Received from Channel: 4

\*\*\*\*\*  
 06/29/05 11:12:27 EDT Receive Log: EAS Message Received from Channel: 5  
 EAS Header: ZCZC-WXR-RWT-037037-037063-037069-037077-037101-037105-037135  
 -037145-037181-037183-037185-037001-037151-037085-037125+0015-1801506  
 -KRAH/NWS-  
 EAS Translation: The National Weather Service has issued a Required Weekly  
 Test for the following counties: Chatham NC - Durham NC - Franklin NC -  
 Granville NC - Johnston NC - Lee NC - Orange NC - Person NC - Vance NC -  
 Wake NC - Warren NC - Alamance NC - Randolph NC - Harnett NC - Moore NC.  
 Effective Until 06/29/05 11:21:00 EDT.  
 Originator: National Weather Service  
 Event: Required Weekly Test  
 Origination Time: 06/29/05 11:06:00 EDT  
 Expiration Time: 06/29/05 11:21:00 EDT  
 Status: Message Logged, User will Manually Send Message

Acknowledged Tu  
 09:55:12 AM EDT  
 patrick.staley@tw

Add Commer

\*\*\*\*\*  
 06/29/05 11:13:55 EDT Receive Log: EOM Received from Channel: 5

\*\*\*\*\*  
 06/29/05 13:56:58 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

\*\*\*\*\*  
 06/29/05 13:56:58 EDT Receive Log: EOM Received from Channel: 3

Add Commer  
Acknowledge

▶  
▼

Add Commer

## Section 7 – EAS Logs

Attach the originals of all the EAS log sheets for all EAS messages received and transmitted in the last six months. These log sheets should be mounted on 8 ½ by 11 pages to facilitate easy copying.

Log sheets should indicate the following:

1. Receipt of a Required Weekly Test (RWT) from each LP monitored. If no RWT exist for an LP then there should be an explanation of why and what steps, if any, were taken to ensure the next RWT is received and logged.
2. Receipt of Required Monthly Test (RMT) for each LP monitored. If no RMT exist for an LP then there should be an explanation of why and what steps, if any, were taken to ensure the next RMT is received and logged.
3. There should be a complete log of all messages received and transmitted and we should ensure we are indeed transmitting all the required messages, including but not limited to RMT.
4. Any problems in our EAS distribution system that result in our inability to deliver EAS messages to our customers must also be logged. This includes EAS equipment problems of any kind.

EAS Monitoring Assignments by Local Area  
Page 1 of 2

MONITORING ASSIGNMENTS BY LOCAL AREA

This section specifies the required LP1 and LP2 monitor assignments in each local area. The newly-formed SR-3 stations form a voluntary network to support the existing LP-1s & LP-2s as additional relays. The LP-1s and LP-2s are requested to add equipment to their system to monitor an SR-3 or an adjacent area LP in the absence of a useable SR signal.

SR-3 stations in the network to date:

WIBT-FM, (96.1) Shelby  
WKRR-FM, (92.3) Asheboro  
WMGV-FM, (103.3) New Port  
WRAL-FM, (101.5) Raleigh

**ASHEVILLE LOCAL AREA**

WMIT-FM (SR-1/LP-1) monitors: WLNK-FM, WKSF-FM, NWS, EMnet.

WKSF-FM (SR-2/LP-2) monitors: WMIT-FM, WSOC-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Avery, Buncombe, Burke, Cherokee, Clay, Graham, Haywood, Henderson, Jackson, Macon, Madison, McDowell, Mitchell, Polk, Rutherford, Swain, Transylvania and Yancey which compose the Asheville Local Area, will monitor WMIT-FM, WKSF-FM and NWS Radio.

**CHARLOTTE LOCAL AREA**

WLNK-FM (SR-1/LP-1) monitors: WTQR-FM, WSOC-FM, NWS, EMnet.

WSOC-FM (SR-2/LP-2) monitors: WLNK-FM, WTQR-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Anson, Cabarrus, Catawba, Cleveland, Gaston, Lincoln, Mecklenburg, Montgomery, Richmond, Stanly and Union which compose the Charlotte Local Area and monitor WLNK-FM, WSOC-FM and NWS Radio.

**COLUMBIA LOCAL AREA**

WRSF-FM (SR-1/LP-1) monitors: WERO-FM, WERX-FM, NWS, EMnet.

WERX-FM (SR-2/LP-2) monitors: WRSF-FM, WRNS-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Bertie, Camden, Chowan, Currituck, Dare, Gates, Hertford, Pasquotank, Perquimans, Tyrrell and Washington which compose the Columbia Local Area will monitor WRSF-FM, WERX-FM and NWS Radio.

**FAYETTEVILLE LOCAL AREA**

WQSM-FM (SR-1/LP-1) monitors: WQDR-FM, WKML-FM, NWS, EMnet.

WKML-FM (SR-2/LP-2) monitors: WQSM-FM, WDCG-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Scotland, Robeson, Bladen, Hoke, Sampson, Duplin and Cumberland which compose the Fayetteville Local Area will monitor WQSM-FM, WKML-FM and NWS Radio.

EAS Monitoring Assignments by Local Area

Page 2 of 2

**GOLDSBORO LOCAL AREA**

WRDU-FM (SR-1/LP-1) monitors: WQDR-FM, WYMY-FM, NWS, EMnet.

WYMY-FM (SR-2/LP-2) monitors: WRDU-FM, WDCG-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Wilson, Nash, Edgecombe, Halifax, Northampton and Wayne which compose the Goldsboro Local Area will monitor WRDU-FM, WYMY-FM, and NWS Radio.

**RALEIGH LOCAL AREA**

WQDR-FM (SP-1/LP-1) monitors: WDCG-FM, WZTK-FM, NWS, EMnet.

WDCG-FM (SP-2/LP-2) monitors: WQDR-FM, WTQR-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Chatham, Durham, Franklin, Granville, Harnett, Johnston, Lee, Moore, Orange, Person, Vance, Wake and Warren, which compose the Raleigh Local Area will monitor WQDR-FM, WDCG-FM, and NWS Radio.

**STATESVILLE LOCAL AREA**

WFMX-FM (SR-1/LP-1) monitors: WLNK-FM, WKBC-FM, NWS, EMnet.

WKBC-FM (SR-2/LP-2) monitors: WFMX-FM, WTQR-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Alexander, Alleghany, Ashe, Caldwell, Davie, Iredell, Rowan, Watauga, and Wilkes which compose the Statesville Local Area will monitor WFMX-FM, WKBC-FM and NWS Radio.

**TRIAD LOCAL AREA**

WZTK-FM (SR-1/LP-1) monitors: WQDR-FM, WTQR-FM, NWS, EMnet.

WTQR-FM (SR-2/LP-2) monitors: WZTK-FM, WFMX-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Alamance, Caswell, Randolph, Guilford, Rockingham, Stokes, Forsyth, Davidson, Yadkin, and Surry which compose the Triad Local Area will monitor WZTK-FM, WTQR-FM, and NWS Radio.

**WASHINGTON LOCAL AREA**

WERO-FM (SR-1/LP-1) monitors: WQDR-FM, WRNS-FM, NWS, EMnet.

WRNS-FM (SR-2/LP-2) monitors: WERO-FM, WYMY-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Martin, Beaufort, Pitt, Greene, Lenoir, Jones, Carteret, Craven, Pamlico, and Hyde which compose the Washington Local Area will monitor WERO-FM, WRNS-FM, and NWS Radio.

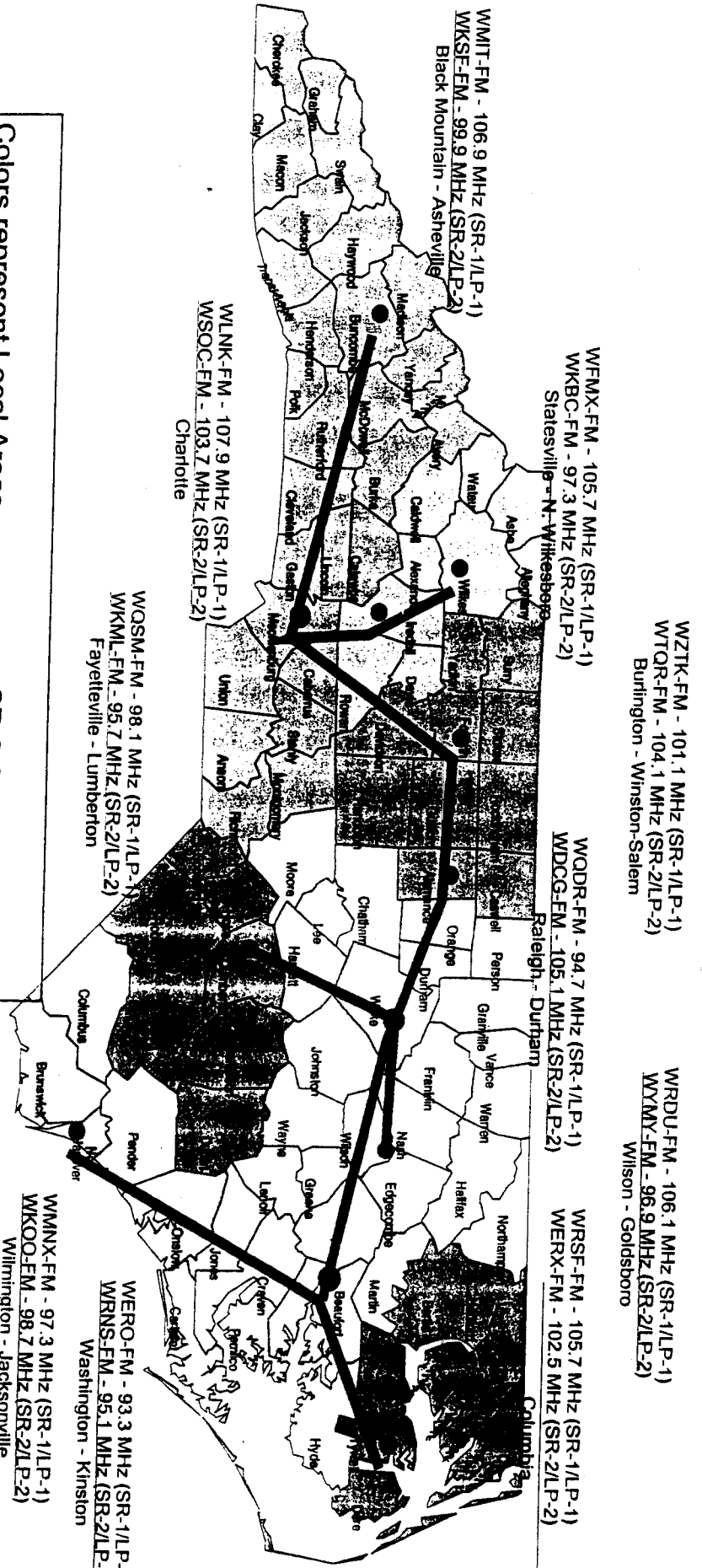
**WILMINGTON LOCAL AREA**

WMNX-FM (SR-1/LP-1) monitors: WERO-FM, WKOOFM, NWS, EMnet.

WKOOFM (SR-2/LP-2) monitors: WMNX-FM, WRNS-FM, NWS, EMnet.

All radio and television stations with city of license and cable operators with their franchise agreements in the counties of Brunswick, Columbus, New Hanover, Pender and Onslow which compose the Wilmington Local Area will monitor WMNX-FM, WKOOFM and NWS Radio.

# State of North Carolina Emergency Alert Relay System



Colors represent Local Areas

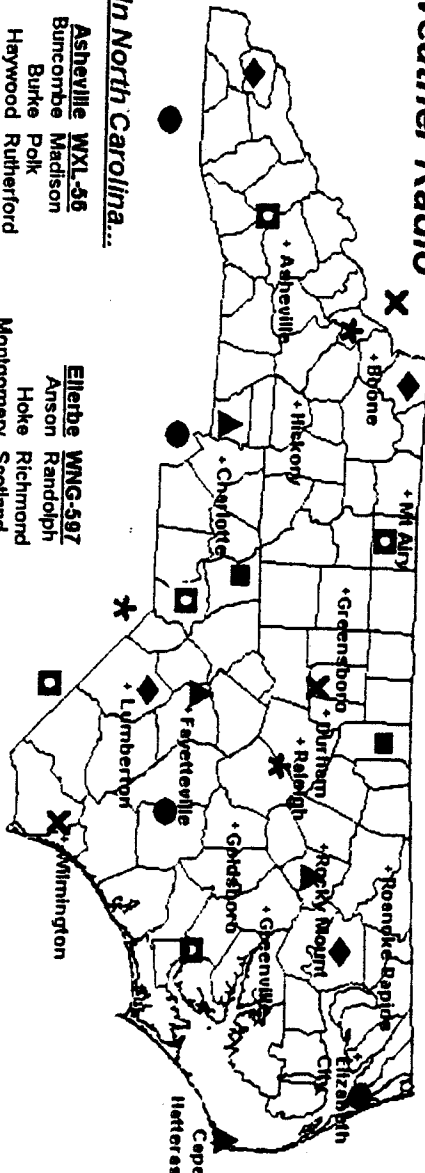
SR-1 (State Relay - 1)  
 SR-2 (State Relay - 2)  
 LP-1 (Local Primary - 1)  
 LP-2 (Local Primary - 2)

SR-3 Stations	
WRAL-FM	101.5 Raleigh
WKRR-FM	92.3 Asheboro
WIBT-FM	96.1 Shelby
WMMG-FM	103.3 Newport





# Your Guide to NOAA Weather Radio



## Legend

Denotes NOAA Weather Radio location and broadcast frequency

- 162.400 MHz
- 162.425 MHz
- \* 162.450 MHz
- ▲ 162.475 MHz
- 162.500 MHz
- ◆ 162.525 MHz
- ✕ 162.550 MHz

### In North Carolina...

- Asheville WXL-56**  
Buncombe Madison  
Burke Polk  
Haywood Rutherford  
Henderson Transylvania  
Jackson Yancey  
McDowell
- Buck Mtn. WWF-60**  
Anson Richmond  
Cabarrus Rowan  
Davidson Stanly  
Randolph Union
- Cape KEG-72**  
Hatteras Dare Tyrell  
Hyde
- Chapel Hill WXL-58**  
Alamance Lee  
Chatham Orange  
Durham Person  
Franklin Randolph  
Granville Wake  
Johnston Warren  
Vance
- Charlotte WXL-70**  
Alexander Iredell  
Anson Lincoln  
Cabarrus Mecklenburg  
Catawba Rowan  
Cleveland Stanly  
Gaston Union
- Ellerbe WNG-587**  
Anson Randolph  
Hoke Richmond  
Montgomery Scotland  
Moore Stanly
- Fayetteville WXL-50**  
Bladen Montgomery  
Cumberland Richmond  
Harnett Robeson  
Hoke Sampson  
Lee Scotland  
Moore
- Gartier WXL-72**  
Franklin Wake  
Harnett Wilson  
Johnston Wayne  
Nash
- Henderson WNG-586**  
Franklin Warren  
Granville Vance  
Person
- Joanna WNG-82**  
Bald Mtn. Jackson  
Cherokee Macon  
Clay Swain  
Graham Swain
- Linville WNG-52**  
Avery Catawba  
Alexander McDowell  
Burke Mitchell  
Caldwell Yancey

- Lumber WWF-89**  
Bridge Robeson
- Mantle WWH-26**  
Camden Pasquotank  
Curtuck Tyrell  
Dare
- Mt. Jefferson WNG-587**  
Alleghany Caldwell  
Ashe Watauga  
Alexander Wilkes
- New Bern KEC-84**  
Beaufort Hyde  
Carteret Jones  
Craven Lenoir  
Duplin Martin  
Greene Onslow
- Tarboro WXL-59**  
Bertie Nash  
Edgemcombe Northampton  
Greene Pitt  
Halifax Wilson  
Martin
- Warsaw KX1-95**  
Duplin Onslow  
Jones Sampson  
Lenoir Wayne

### In Virginia...

- Wilmington KHB-31**  
Bladen Pender  
Brunswick Sampson  
Columbus Duplin  
New Hanover Onslow
- Windsor WNG-537**  
Beaufort Hertford  
Bertie Martin  
Chowan Perquimans  
Edgemcombe Pitt  
Gates Northampton  
Halifax Washington

### In Tennessee...

- Bristol, TN WXL-47**  
Ashe Mitchell  
Avery Watauga  
Madison Yancey

### In South Carolina...

- Aynor, SC KEC-95**  
Columbus Brunswick
- Charaw, SC WXX-90**  
Anson Scotland  
Richmond
- Clayton, SC KX1-81**  
Macon
- Rock Hill, SC KNC-27**  
Mecklenburg Union

## FIPS CODES

STATE NAME: North Carolina  
STATE CODE: 37  
ALPHABETIC CODE: NC

001 Alamance	003 Alexander	005 Alleghany
007 Anson	009 Ashe	011 Avery
013 Beaufort	015 Bertie	017 Bladen
019 Brunswick	021 Buncombe	023 Burke
025 Cabarrus	027 Caldwell	029 Camden
031 Carteret	033 Caswell	035 Catawba
037 Chatham	039 Cherokee	041 Chowan
043 Clay	045 Cleveland	047 Columbus
049 Craven	051 Cumberland	053 Currituck
055 Dare	057 Davidson	059 Davie
061 Duplin	063 Durham	065 Edgecombe
067 Forsyth	069 Franklin	071 Gaston
073 Gates	075 Graham	077 Granville
079 Greene	081 Guilford	083 Halifax
085 Harnett	087 Haywood	089 Henderson
091 Hertford	093 Hoke	095 Hyde
097 Iredell	099 Jackson	101 Johnston
103 Jones	105 Lee	107 Lenoir
109 Lincoln	111 McDowell	113 Macon
115 Madison	117 Martin	119 Mecklenburg
121 Mitchell	123 Montgomery	125 Moore
127 Nash	129 New Hanover	131 Northampton
133 Onslow	135 Orange	137 Pamlico
139 Pasquotank	141 Pender	143 Perquimans
145 Person	147 Pitt	149 Polk
151 Randolph	153 Richmond	155 Robeson
157 Rockingham	159 Rowan	161 Rutherford
163 Sampson	165 Scotland	167 Stanly
169 Stokes	171 Surry	173 Swain
175 Transylvania	177 Tyrrell	179 Union
181 Vance	183 Wake	185 Warren
187 Washington	189 Watauga	191 Wayne
193 Wilkes	195 Wilson	197 Yadkin
199 Yancey		

## Section 8 - Qualifications of Those Completing These Test

Employee Name: Pat Dobson  
Current Position: Maintenance Tech Level 2  
Years of Service in Current Position: 2  
Years of Service in the Cable Industry: 24  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Installer, NCTE Service Tech

Employee Name: Jon Wooding  
Current Position: Maintenance Technician Level 2  
Years of Service in Current Position: 1  
Years of Service in the Cable Industry: 8  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Service Technician, NCTE Return Path Operations,  
NCTE System Tech.

Employee Name: Donald Brown  
Current Position: Maintenance Technician Level 3  
Years of Service in Current Position: 3  
Years of Service in the Cable Industry: 9  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Service Technician, NCTE System Technician

Employee Name: Eddie Blake  
Current Position: Maintenance Technician Level 1  
Years of Service in Current Position: 2  
Years of Service in the Cable Industry: 8  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Installer Tech, NCTE Service Tech.

Section 8 - Qualifications of Those Completing These Test

Employee Name: John Schmidt  
Current Position: Maintenance Technician Level 3  
Years of Service in Current Position: 14  
Years of Service in the Cable Industry: 20  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Service Technician, NCTE Service technician 2

Employee Name: Igor Papo  
Current Position: Maintenance Technician Level 1  
Years of Service in Current Position: 1  
Years of Service in the Cable Industry: 4  
Years of Education: 16  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:

Employee Name: Ruben Suljans  
Current Position: Maintenance Technician Level 2  
Years of Service in Current Position: 5  
Years of Service in the Cable Industry: 10  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
All NCTE

Employee Name: Dwight Ellis  
Current Position: Maintenance Technician Level 1  
Years of Service in Current Position: 2  
Years of Service in the Cable Industry: 9  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: No, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Service Tech

Section 8 - Qualifications of Those Completing These Test

Employee Name: Rodney Hoollier  
Current Position: Maintenance Technician level 1  
Years of Service in Current Position: 2  
Years of Service in the Cable Industry: 6  
Years of Education: 16  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
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\_\_\_\_\_  
\_\_\_\_\_

Employee Name: Terrell Henderson  
Current Position: Maintenance Technician - Trainee  
Years of Service in Current Position: 1  
Years of Service in the Cable Industry: 6  
Years of Education: 14  
SCTE Certified Broadband Communications Technician: NO, Engineer: NO  
Cable Television, Electronics, and Communications Courses completed:  
NCTE Construction  
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\_\_\_\_\_  
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Employee Name: Bobby Debram  
Current Position: Maintenance Technician III  
Years of Service in Current Position: 1  
Years of Service in the Cable Industry: 17  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: \_\_\_, Engineer: \_\_\_  
Cable Television, Electronics, and Communications Courses completed:  
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Employee Name: David Williamson  
Current Position: Maintenance Technician I  
Years of Service in Current Position: 2  
Years of Service in the Cable Industry: 3  
Years of Education: 12  
SCTE Certified Broadband Communications Technician: \_\_\_, Engineer: \_\_\_  
Cable Television, Electronics, and Communications Courses completed:  
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