

~~SECRET~~

UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION
GETTYSBURG, PA 17326

FCC JUN 16 1993

MLP
APPROVED BY OMB
30601064
Expires 10/31/92
See instructions for information
regarding public burden estimate

APPLICATION FOR STATION AUTHORIZATION IN THE
PRIVATE OPERATIONAL FIXED MICROWAVE RADIO SERVICE

FOR COMMISSION USE ONLY

FILE NUMBER: 0794824 SEND TO ASB: YES NO

FOR APPLICANT: Use FCC Form-402 Instructions dated December, 1989, or later for reference in completing form.

SECTION I-IDENTIFICATION INFORMATION

1. NAME OF APPLICANT:
LIBERTY CABLE CO., INC.

2. MAILING ADDRESS: (No., street, city, state, ZIP code)
215 E. 95th Street
New York, NY 10128
Attn: Behrooz Nourain

3. CALL SIGN: (If application refers to an existing Part 94 station)
WNTM-210

4. LICENSEE IDENTIFICATION NUMBER: (If previously assigned by the Commission) 005230-200

5A. NAME OF PERSON TO CONTACT REGARDING APPLICATION
Jennifer L. Richter, Esq.

5B. TELEPHONE NUMBER OF THE CONTACT:
(202) 296-0600

Check here if you are a current Part 94 licensee and your mailing address. Item 2, IS NOT the address on file.

6. TYPE OF APPLICANT: INDIVIDUAL ASSOCIATION
 PARTNERSHIP CORPORATION GOVERNMENTAL ENTITY

7. CLASS OF STATION: (enter code) FXO

8. ELIGIBILITY RULE SECTION 90.75(a)(1)

9A. PURPOSE OF APPLICATION:
 NEW STATION MODIFICATION (SEE 9B & 9C) MODIFICATION WITH RENEWAL (SEE 9B & 9C) ASSIGNMENT OF AUTHORIZATION OTHER (SPECIFY) 

9B.	PATH	ACTION	OLD VALUE OF KEY ITEMS CHANGED			
	A	<input checked="" type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20	30	31	32
	B	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20	30	31	32
	C	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20	30	31	32
	D	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20	30	31	32
	E	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20	30	31	32

9C. DESCRIBE ANY OTHER CHANGES:

10. WILL THIS SYSTEM BE USED TO PROVIDE A COMMUNICATIONS PRIVATE CARRIER SERVICE TO OTHERS? YES NO

SECTION II-ANTENNA INFORMATION

11. LOCATION OF TRANSMITTING ANTENNA STRUCTURE:

A. NUMBER AND STREET: (or other specific indication)
20 West 64th Street (1 Lincoln Plaza)

B. CITY: New York

C. COUNTY: New York D. STATE: NY E. COORDINATES: (Degrees, Minutes, Seconds)
LATITUDE: 40-46-18 N LONGITUDE: 73-58-55 W

12A. IS THE ANTENNA TO BE MOUNTED ON AN EXISTING ANTENNA STRUCTURE? IF YES, ANSWER ITEMS 12B, C, D, & E... YES NO

12B. WILL THE ANTENNA INCREASE THE HEIGHT OF THE EXISTING STRUCTURE? IF YES, BY HOW MANY FEET? YES NO

12C. NAME OF CURRENT LICENSEE USING STRUCTURE:

12D. CURRENT LICENSEE'S RADIO SERVICE:

12E. CURRENT LICENSEE'S CALL SIGN:

FOR COMMISSION USE ONLY

ASB:

13. FOR ANTENNA TOWERS (OR POLES) MOUNTED ON THE GROUND: ENTER THE OVERALL HEIGHT ABOVE GROUND OF THE ENTIRE ANTENNA (OR POLE) INCLUDING ALL ANTENNAS, DISHES, LIGHTNING RODS, OBSTRUCTION LIGHTING, ETC. MOUNTED ON IT FT

14. FOR ANTENNAS OR ANTENNA TOWERS (OR POLES) MOUNTED ON A SUPPORTING STRUCTURE SUCH AS A BUILDING, WATER TOWER, SMOKE STACK, ETC.:

14A. WHAT IS THE OVERALL HEIGHT ABOVE GROUND OF THIS SUPPORTING STRUCTURE? INCLUDE IN THIS HEIGHT ANY ELEVATOR SHAFTS, PENTHOUSES, LIGHTNING RODS, LIGHTS, ETC., WHICH ARE NOT PART OF THE ANTENNA TOWER (OR POLE) 480 FT

14B. HOW MANY FEET DOES THE ANTENNA TOWER (OR POLE) (INCLUDING ALL ANTENNAS, DISHES, LIGHTNING RODS, LIGHTS, ETC.) INCREASE THE HEIGHT OF THE SUPPORTING STRUCTURE IN ITEM 14A? IF THIS ANTENNA OR ANTENNA TOWER (OR POLE) DOES NOT INCREASE THE HEIGHT OF THE SUPPORTING STRUCTURE, ENTER ZERO (0) 0 FT

14C. WHAT IS THE OVERALL HEIGHT OF THIS SUPPORTING STRUCTURE PLUS THE ANTENNA TOWER (OR POLE)? 480 FT

15. GIVE THE GROUND ELEVATION ABOVE MEAN SEA LEVEL AT THE ANTENNA SITE 80 FT

16A. NAME OF NEAREST AIRCRAFT LANDING AREA 16B. DIRECTION AND DISTANCE TO NEAREST RUNWAY

Report of the following conditions:

WT 96-41 TW 66

Time Warner

Identified

Received

Rejected

Reporter

918

Date

5-29-97

17A Has notice of construction been filed with the FAA on FAA Form 7460-1? If yes, answer items 17B, C, and D. YES NO

17B. NAME UNDER WHICH YOU FILED: _____ 17C. FAA REGIONAL OFFICE: (City) _____ 17D. DATE FILED: _____

18. Would a Commission grant of your application be an action which may have a significant environmental effect as defined by Section 1.1307 of the Commission's Rules? See Instruction 18. If you answer yes, submit the statement as required by Sections 1.1308 and 1.1311. YES NO

19. If this is an existing station, enter the year it was first licensed: 1992

SECTION III—TECHNICAL INFORMATION SEE ATTACHED

NAME OF ITEM	A	B	C	D	E
20. Frequency (MHz) <u>18145.0-18577.0</u>					
21. Bandwidth (kHz) and Emission Type					
22. Type of Message Service					
23. Initial Baseband Channel Loading					
24. 10 yr. Projected Baseband Channel Loading					

TRANSMITTER INFORMATION

NAME OF ITEM	A	B	C	D	E
25. Transmitter Operating Frequency Tolerance (%)					
26. Antenna Gain (dBi)					
27. Effective Isotropic Radiated Power (dBm)					
28. Beamwidth (Degrees)					
29. Height to Center of Final Radiating Element (Ft)					
30. Polarization					
31. Azimuth to Receive Site or Passive Repeater (PR) No. 1 (Degrees)					

RECEIVE SITE INFORMATION

NAME OF ITEM	A	B	C	D	E
32. Receiving Station's Call Sign					
33. Receiving Antenna Gain (dBi)					
34. Median Received Signal Level at Input to the Receiver (dBm)					
35. Latitude N (Degrees, Minutes, Seconds)					
36. Longitude W (Degrees, Minutes, Seconds)					
37. Ground Elevation AMSL (Ft)					
38. Height to Center of Receiving Antenna (Ft)					

PASSIVE REPEATER NO. 1 INFORMATION (IF ANY)

If you have two or more passive repeaters on the same transmission path, check this box and answer items 39-46 on an additional FCC Form 402 or a separate sheet of paper for the second and successive passive repeaters.

NAME OF ITEM	A	B	C	D	E
39. Latitude N (Degrees, Minutes, Seconds)					
40. Longitude W (Degrees, Minutes, Seconds)					
41. Ground Elevation AMSL (Ft)					
42. Overall Height of PR Structure Above Ground (Ft)					
43. Dimensions (Ft X Ft) or Beamwidth (for dishes) (Degrees)					
44. Height Above Ground to Center of PR (Ft)					
45. Polarization					
46. Azimuth to Receive Site or Next PR (Degrees)					

SECTION IV—CERTIFICATION

- Applicant certifies that a copy of CFR 47, Part 94 has been retained for reference.
- Applicant waives any claim to the use of any particular frequency regardless of prior use by licensee or otherwise.
- Applicant will have unlimited access to the radio equipment and will control access and exclude unauthorized persons.
- Neither applicant nor any member thereof is a foreign government or representative thereof.
- Applicant will utilize type accepted radio equipment and antenna of correct specifications.
- Applicant certifies that all statements made in this application and attachments are true and complete.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ATTACHMENTS ARE PUNISHABLE BY FINE AND IMPRISONMENT U.S. CODE TITLE 18 SECTION 1001

TYPED NAME: BEHROOZ NOURAIN TITLE: Director of Engineering

SIGNATURE of individual, partner, official of a governmental entity, officer or authorized employee of a corporation, or officer who is also a member of the association. Behrooz Nourain DATE: 6/11/93

NOTICE TO INDIVIDUALS REQUIRED BY PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

Sections 301, 303, and 308 of the Communications Act of 1934, as amended, (licensing powers) authorize the FCC to request the information on this application. The purpose of the information is to determine your eligibility for a license. The information will be used by FCC staff to evaluate the application, to determine station location, to provide information for enforcement and rule-making proceedings and to maintain a current inventory of licensees. No license can be granted unless all information requested is provided. Your response is required to obtain this authorization.

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME . 1 LINCOLN PL, NY
TRANSMITTER COORDINATES : 40 46 18.0 N
73 58 55.0 W

20. FREQUENCY (MHZ): SEE EXHIBIT
21. EMISSION: SEE EXHIBIT
22. TYPE OF MESSAGE SERVICE: VIDEO
23. INITIAL BASEBAND CHANNEL LOADING: 1
24. 10 YR PROJ. BASEBAND CHANNEL LOAD: 1

TRANSMITTER INFORMATION

25. OPERATING FREQ. TOL(%): 0.000500
26. ANTENNA GAIN (DBI): 44.7
27. EFFECTIVE RADIATED POWER (DBM): 19.7
28. BEAM WIDTH (DEGREES): 0.9
29. CENTER OF RADIATING ELEMENT (FT): 470.0
30. POLARIZATION: V
31. AZIMUTH TO NEXT STATION OR PR1(DEG): 37.244

RECEIVER INFORMATION

RECEIVER SITE NAME : 33 WEST 67TH, NY

32. CALL SIGN:
33. RECEIVING ANTENNA GAIN (DBI): 48.2
34. MEDIAN RECEIVED SIGNAL LEVEL (DBM): -38.7
35. LATITUDE N. (DD MM SS): 40 46 25.0
36. LONGITUDE W. (DDD MM SS): 73 58 48.0
37. GROUND ELEVATION AMSL (FT): 85.0
38. HT. TO RECEIVING ANTENNA (FT): 175.0

SUPPLEMENTAL INFORMATION

TRANSMITTER INFORMATION

TRANSMITTER ANTENNA MAKE: CABLEWAVE SYSTEMS
TRANSMITTER ANTENNA MODEL: PA4-190
EQUIPMENT MAKE: HUGHES AIRCRAFT CO
EQUIPMENT MODEL: DOO63QAMLMOT18120

RECEIVER INFORMATION

RECEIVING ANTENNA MAKE: CABLEWAVE SYSTEMS
RECEIVING ANTENNA MODEL: PA6-190

EXHIBIT #1

FREQUENCY

EMISSION DESIGNATOR

18145.0	5750A5C/250F3
18151.0	5750A5C/250F3
18157.0	5750A5C/250F3
18163.0	100AO
18169.0	5750A5C/250F3
18175.0	5750A5C/250F3
18181.0	5750A5C/250F3
18187.0	5750A5C/250F3
18193.0	5750A5C/250F3
18199.0	5750A5C/250F3
18205.0	5750A5C/250F3
18211.0	5750A5C/250F3
18217.0	5750A5C/250F3
18223.0	5750A5C/250F3
18229.0	5750A5C/250F3
18235.0	5750A5C/250F3
18241.0	5750A5C/250F3
18247.0	5750A5C/250F3
18253.0	5750A5C/250F3
18259.0	5750A5C/250F3
18265.0	5750A5C/250F3
18271.0	5750A5C/250F3
18277.0	5750A5C/250F3
18283.0	5750A5C/250F3
18289.0	5750A5C/250F3
18295.0	5750A5C/250F3
18301.0	5750A5C/250F3
18307.0	5750A5C/250F3
18313.0	5750A5C/250F3
18319.0	5750A5C/250F3
18325.0	5750A5C/250F3
18331.0	5750A5C/250F3
18337.0	5750A5C/250F3
18343.0	5750A5C/250F3
18349.0	5750A5C/250F3
18355.0	5750A5C/250F3
18361.0	5750A5C/250F3
18367.0	5750A5C/250F3
18373.0	5750A5C/250F3
18379.0	5750A5C/250F3
18385.0	5750A5C/250F3
18391.0	5750A5C/250F3
18397.0	5750A5C/250F3
18403.0	5750A5C/250F3
18409.0	5750A5C/250F3
18415.0	5750A5C/250F3
18421.0	5750A5C/250F3
18427.0	5750A5C/250F3
18433.0	5750A5C/250F3
18439.0	5750A5C/250F3
18445.0	5750A5C/250F3

EXHIBIT #1 CONTINUED

<u>FREQUENCY</u>	<u>EMISSION DESIGNATOR</u>
18451.0	5750A5C/250F3
18457.0	5750A5C/250F3
18463.0	5750A5C/250F3
18469.0	5750A5C/250F3
18475.0	5750A5C/250F3
18481.0	5750A5C/250F3
18487.0	5750A5C/250F3
18493.0	5750A5C/250F3
18499.0	5750A5C/250F3
18505.0	5750A5C/250F3
18511.0	5750A5C/250F3
18517.0	5750A5C/250F3
18523.0	5750A5C/250F3
18529.0	5750A5C/250F3
18535.0	5750A5C/250F3
18541.0	5750A5C/250F3
18547.0	5750A5C/250F3
18553.0	5750A5C/250F3
18559.0	5750A5C/250F3
18565.0	5750A5C/250F3
18571.0	5750A5C/250F3
18577.0	5750A5C/250F3

COMSEARCH
11720 Sunrise Valley Drive
Reston, Virginia 22091
(703) 620-6300

LIBERTY CABLE CO., INC.

05/24/93

MICROWAVE PATH DATA

<u>STATION NAME</u>	THIRD AVE	NY	1112 PARK AV NY
<u>PATH STATUS</u>	PROPOSED OR PRIOR COORDINATED		
CALL SIGN	WNTP-939		
LATITUDE (D-M-S)	40 47 3.0		40 46 57.5
LONGITUDE (D-M-S)	73 56 54.0		73 57 23.0
GROUND ELEV (FT-AMSL)	30		100
PATH AZIMUTH (DEG)	255.993		75.988
PATH DISTANCE (MILES)		0.435	
(KM)		0.701	
<u>ANTENNA</u>			
<u>PRIMARY</u>	TX	CABLEWAVE SYSTEMS	NOT APPLICABLE
FCC CODE		PA4-190	
GAIN (dBi)		CB0082	
C/L (FT-AGL)		44.7	
<u>PRIMARY</u>	RX	392	
		NOT APPLICABLE	CABLEWAVE SYSTEMS
FCC CODE			PA6-190
GAIN (dBi)			CB0093
C/L (FT-AGL)			48.2
<u>DIVERSITY</u>			185
FCC CODE			
GAIN (dBi)			
C/L (FT-AGL)			
<u>EQUIPMENT</u>			
		HUGHES AIRCRAFT CO	RECEIVE
FCC CODE		DOO63QAMLMOT18120	ONLY
EMISSION		PENDING	
LOADING		5M75C3F/250F3/100AO	
STABILITY (%)		VIDEO	
POWER (DBM)		0.000500	
		-10.0	
RECEIVED LEVEL (DBM)			-43.9
EIRP (DBM)	22.7		
FIXED LOSSES (DB)	12.0		0.0
FREE SPACE LOSS (DB)		114.8	
<u>TRANSMIT</u>	18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V		
<u>FREQUENCIES</u>	18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V		
(MHZ)	18229.0V,18235.0V,18241.0V,18247.0V,18253.0V,18259.0V,18265.0V		
	18271.0V,18277.0V,18283.0V,18289.0V,18295.0V,18301.0V,18307.0V		
	18313.0V,18319.0V,18325.0V,18331.0V,18337.0V,18343.0V,18349.0V		
	18355.0V,18361.0V,18367.0V,18373.0V,18379.0V,18385.0V,18391.0V		
	18397.0V,18403.0V,18409.0V,18415.0V,18421.0V,18427.0V,18433.0V		
	18439.0V,18445.0V,18451.0V,18457.0V,18463.0V,18469.0V,18475.0V		
	18481.0V,18487.0V,18493.0V,18499.0V,18505.0V,18511.0V,18517.0V		
	18523.0V,18529.0V,18535.0V,18541.0V,18547.0V,18553.0V,18559.0V		
	18565.0V,18571.0V,18577.0V		

COMSEARCH
11720 Sunrise Valley Drive
Reston, Virginia 22091
(703) 620-6300

LIBERTY CABLE CO., INC.

05/24/93

MICROWAVE PATH DATA

<u>STATION NAME</u>	1 LINCOLN PL NY	33 WEST 67TH NY
<u>PATH STATUS</u>	PROPOSED OR	PRIOR COORDINATED
CALL SIGN	WNTM210	
LATITUDE (D-M-S)	40 46 18.0	40 46 25.0
LONGITUDE (D-M-S)	73 58 55.0	73 58 48.0
GROUND ELEV (FT-AMSL)	80	85
PATH AZIMUTH (DEG)	37.244	217.245
PATH DISTANCE (MILES)		0.169
(KM)		0.271
<u>ANTENNA</u>		
<u>PRIMARY</u> TX	CABLEWAVE SYSTEMS	NOT APPLICABLE
	PA4-190	
FCC CODE	CB0082	
GAIN (dBi)	44.7	
C/L (FT-AGL)	470	
<u>PRIMARY</u> RX	NOT APPLICABLE	CABLEWAVE SYSTEMS
		PA6-190
FCC CODE		CB0093
GAIN (dBi)		48.2
C/L (FT-AGL)		175
<u>DIVERSITY</u>		
<u>FCC CODE</u>		
GAIN (dBi)		
C/L (FT-AGL)		
<u>EQUIPMENT</u>	HUGHES AIRCRAFT CO	RECEIVE
	DOO63QAMLMOT18120	ONLY
FCC CODE	PENDING	
EMISSION	5M75C3F/250F3/100AO	
LOADING	VIDEO	
STABILITY (%)	0.000500	
POWER (DBM)	-10.0	
RECEIVED LEVEL (DBM)		-38.7
EIRP (DBM)	19.7	
FIXED LOSSES (DB)	15.0	0.0
FREE SPACE LOSS (DB)	106.6	
<u>TRANSMIT</u>	18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V	
<u>FREQUENCIES</u>	18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V	
(MHZ)	18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V	
	18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V	
	18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V	
	18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V	
	18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V	
	18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V	
	18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V	
	18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V	
	18565.0V, 18571.0V, 18577.0V	

COMSEARCH
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LIBERTY CABLE CO., INC.

05/24/93

MICROWAVE PATH DATA

STATION NAME	205 EAST 64 NY	25 SUTTON NY
PATH STATUS	PROPOSED OR PRIOR COORDINATED	
CALL SIGN	WNTM212	
LATITUDE (D-M-S)	40 45 53.0	40 45 28.0
LONGITUDE (D-M-S)	73 57 48.0	73 57 37.0
GROUND ELEV (FT-AMSL)	60	42
PATH AZIMUTH (DEG)	161.500	341.502
PATH DISTANCE (MILES)		0.505
(KM)		0.813
<u>ANTENNA</u>		
<u>PRIMARY</u> TX	CABLEWAVE SYSTEMS	NOT APPLICABLE
	PA4-190	
FCC CODE	CB0082	
GAIN (dBi)	44.7	
C/L (FT-AGL)	520	
<u>PRIMARY</u> RX	NOT APPLICABLE	CABLEWAVE SYSTEMS
		PA6-190
FCC CODE		CB0093
GAIN (dBi)		48.2
C/L (FT-AGL)		165
<u>DIVERSITY</u>		
<u>FCC CODE</u>		
GAIN (dBi)		
C/L (FT-AGL)		
<u>EQUIPMENT</u>	HUGHES AIRCRAFT CO	RECEIVE
	DOO63QAMLMOT18120	ONLY
FCC CODE	PENDING	
EMISSION	5M75C3F/250F3/100AO	
LOADING	VIDEO	
STABILITY (%)	0.000500	
POWER (DBM)	-10.0	
RECEIVED LEVEL (DBM)		-48.2
EIRP (DBM)	19.7	
FIXED LOSSES (DB)	15.0	0.0
FREE SPACE LOSS (DB)	116.1	
<u>TRANSMIT</u>	18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V	
<u>FREQUENCIES</u>	18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V	
(MHZ)	18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V	
	18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V	
	18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V	
	18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V	
	18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V	
	18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V	
	18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V	
	18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V	
	18565.0V, 18571.0V, 18577.0V	

COMSEARCH
 11720 Sunrise Valley Drive
 Reston, Virginia 22091
 (703) 620-6300

LIBERTY CABLE CO., INC.

05/24/93

MICROWAVE PATH DATA

<u>STATION NAME</u>	205 EAST 64 NY	301 EAST 62N NY
<u>PATH STATUS</u>	PROPOSED OR PRIOR COORDINATED	
<u>CALL SIGN</u>	WNTM212	
LATITUDE (D-M-S)	40 45 53.0	40 45 41.5
LONGITUDE (D-M-S)	73 57 48.0	73 57 48.0
GROUND ELEV (FT-AMSL)	60	60
PATH AZIMUTH (DEG)	179.996	359.996
PATH DISTANCE (MILES)		0.220
(KM)		0.355
<u>ANTENNA</u>		
<u>PRIMARY</u> TX	CABLEWAVE SYSTEMS	NOT APPLICABLE
	PA4-190	
FCC CODE	CB0082	
GAIN (dBi)	44.7	
C/L (FT-AGL)	520	
<u>PRIMARY</u> RX	NOT APPLICABLE	CABLEWAVE SYSTEMS
		PA6-190
FCC CODE		CB0093
GAIN (dBi)		48.2
C/L (FT-AGL)		132
<u>DIVERSITY</u>		
<u>FCC CODE</u>		
GAIN (dBi)		
C/L (FT-AGL)		
<u>EQUIPMENT</u>	HUGHES AIRCRAFT CO	RECEIVE
	DOO63QAMLMOT18120	ONLY
FCC CODE	PENDING	
EMISSION	5M75C3F/250F3/100AO	
LOADING	VIDEO	
STABILITY (%)	0.000500	
POWER (DBM)	-10.0	
RECEIVED LEVEL (DBM)		-41.0
EIRP (DBM)	19.7	
FIXED LOSSES (DB)	15.0	0.0
FREE SPACE LOSS (DB)	108.9	
<u>TRANSMIT</u>	18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V	
<u>FREQUENCIES</u>	18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V	
(MHZ)	18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V	
	18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V	
	18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V	
	18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V	
	18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V	
	18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V	
	18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V	
	18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V	
	18565.0V, 18571.0V, 18577.0V	

FREQUENCY COORDINATION

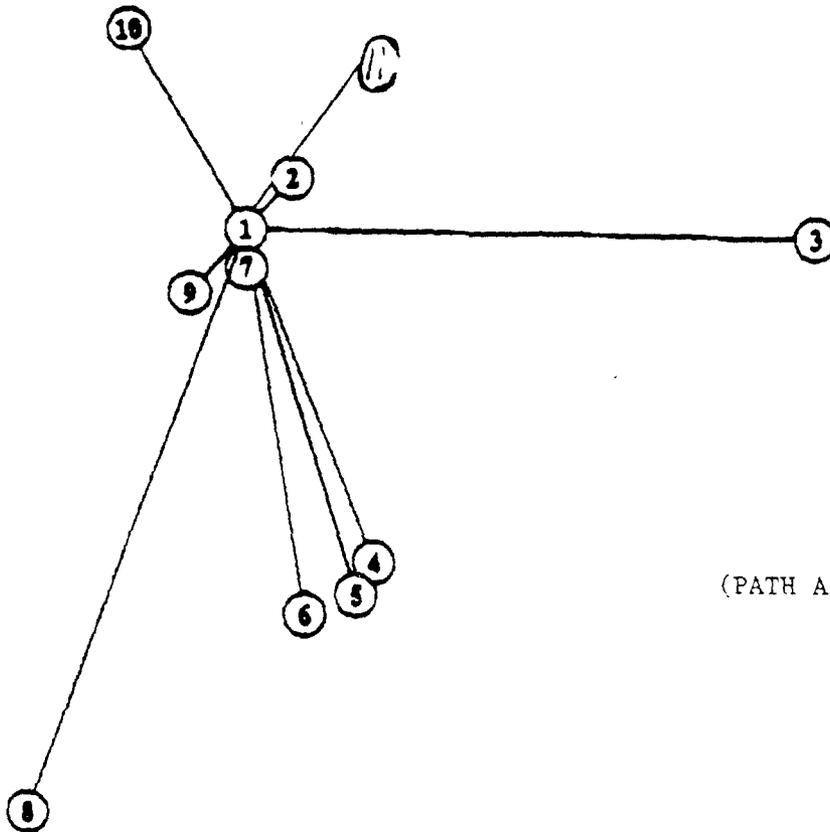
Pursuant to section 94.15(b) of the FCC's rules, Applicant has conducted a frequency engineering analysis of the potential interference between the proposed facilities and previously authorized and pending applications. Attached hereto are the Supplemental Showings of Comsearch certifying compliance with the interference standards of sections 21.100(d) and 94.63 of the FCC's rules.

STATEMENT OF ELIGIBILITY AND USE

Applicant is engaged in the operation of a commercial activity as a provider of video entertainment programming to customers. Therefore, Applicant is eligible for operational-fixed microwave frequencies under section 90.75(a)(1) of the Commission's rules.

Applicant proposes to distribute its own products and services to customers using operational-fixed frequencies in the band 18,142-18,580 MHz. Pursuant to section 94.31(j) of the Commission's rules, the nature of the products and services to be distributed are described below. Applicant is the owner and operator of various private cable (SMATV) systems and proposes the point-to-point distribution of video entertainment material to private cable buildings and ultimately subscribers to the service. Section 94.9(a)(1) of the Commission's rules prohibits the distribution of video entertainment material to customers on frequencies below 21,200 MHz except as provided in Section 94.61(b) and Section 94.9(a)(2). Section 94.9(a)(2) authorizes a licensee to transmit any of its own products or services, including video entertainment programming, to any receiving location on frequencies in the 18,142-18,580 MHz band. Thus, Applicant's proposed use of the 18,142-18,580 MHz band frequencies is consistent with the Commission's rules.

WNTM-210
SITE INFORMATION



- ① 1 Lincoln Plaza, NY
LAT: 40 - 46 - 18.0
LONG: 73 - 58 - 55.0
- ② 10 West 66TH, NY
LAT: 40 - 46 - 22.0
LONG: 73 - 58 - 50.0
- ③ 48 East 72ND, NY
LAT: 40 - 46 - 17.0
LONG: 73 - 57 - 54.5
- ④ Park Meridian, NY
LAT: 40 - 45 - 51.5
LONG: 73 - 58 - 42.0
- ⑤ 125 West 55TH, NY
LAT: 40 - 45 - 49.0
LONG: 73 - 58 - 44.0
- ⑥ Regha Royal, NY
LAT: 40 - 45 - 47.5
LONG: 73 - 58 - 49.5
- ⑦ 30 Lincoln Plaza, NY
LAT: 40 - 46 - 15.0
LONG: 73 - 58 - 55.0
- ⑧ Millford Plaza, NY
LAT: 40 - 45 - 32.0
LONG: 73 - 59 - 19.0
- ⑨ Lincoln Plaza, NY
LAT: 40 - 46 - 13.0
LONG: 73 - 59 - 1.0
- ⑩ 160 West End, NY
LAT: 40 - 46 - 34.0
LONG: 73 - 59 - 7.0
- ⑪ 33 West 67th
Lat: 40-46-25
Long: 73-58-48

(PATH A)

Liberty Cable Television
18 GHz Video Microwave System





MAY 24, 1993

*** CLIENT COPY ***
*** PLEASE MAIL ***
*** TO CUSTOMER ***

RE: Liberty Cable Co., Inc.
1112 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

Dear Sir or Madam:

On behalf of Liberty Cable Co., Inc., we are forwarding the attached coordination data for the proposed microwave path referenced above, pursuant to Parts 21.100(d) and 94.15(a) of the FCC Rules.

Please examine this data for potential interference with your stations. In the event that interference problems are discovered, please notify us at your earliest convenience. If a response is not received within thirty days of 05/27/93, we will assume that you have no objections to this proposal.

If you have any questions or require additional information, please call me.

Sincerely,

Michael R. Roth
Engineer
Transmission Planning Services

Enclosure



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.
226 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

PURSUANT TO PART 21.100(D) OF THE FCC RULES AND REGULATIONS THE ABOVE REFERENCED MICROWAVE ROUTE WAS COORDINATED WITH THE EXISTING LICENSEES AND APPLICANTS WHOSE FACILITIES COULD BE AFFECTED. COORDINATION DATA WAS FORWARDED ON MAY 24, 1993.

THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

AAD MICROWAVE SERVICES CORPORATION
AAT COMMUNICATIONS CORPORATION
ABC RADIO NETWORK INC
ABRAHAM AND STRAUS
ACC NETWORK CORPORATION
AETNA LIFE INSURANCE COMPANY
ALBANY TELEPHONE COMPANY
ALLENTOWN CELLULAR TELEPHONE COMPANY
AMERICAN CELL. NET. CORP. DBA COMCAST CE
AMERICAN SATELLITE COMPANY
AMICA MUTUAL INSURANCE CO C/O NEW ENG DI
ASSOCIATED PRESS - CTS ENGINEERING
AT&T COMMUNICATIONS
BELL ATLANTIC - NSS
BOLT BERANEK AND NEWMAN INC
BOSTON EDISON COMPANY
CABLE SCIENCE CORPORATION
CANTON CELLULAR TELEPHONE - PENNSYLVANIA
CARL COMPANY
CELLULAR OF UPSTATE NEW YORK
CELLULAR TELEPHONE COMPANY OF NEW YORK
CHANNEL 13 TELEVISION



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.
226 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

(CONT'D)

CHANNEL 20 LICENSEE INC
CHASE MANHATTAN BANK
CITY UNIVERSITY OF NEW YORK
COLUMBIA UNIVERSITY
COMDISCO DISASTER RECOVERY SERVICE
COMMUNITY HOME ENTERTAINMENT
COMPUGRAPHIC
COMSEARCH
CONNECTICUT BANK AND TRUST COMPANY
CONNECTICUT LIGHT AND POWER COMPANY
CONNECTICUT PUBLIC BROADCASTING, INC.
CONSOLIDATED EDISON COMPANY OF NEW YORK
CONSOLIDATED RAIL CORPORATION
CONSOLIDATED SPECTRUM SERVICES
CORP. SATELLITE COMMUNICATIONS INC (CSC)
DEAD COMPANY
DELMARVA POWER & LIGHT CO.
DIGICOM INC
DOW JONES AND COMPANY, INC.
EBASCO SERVICES, INC.
EDUCATIONAL BROADCASTING COMPANY
EDWARDS AND KELCEY INC
ELECTRONIC DATA SYSTEMS, INC.
EMI COMMUNICATIONS CORPORATION



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.
226 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

(CONT'D)

FAIRCHILD COMM NETWORK MNGMT CO
FIRST BOSTON CORPORATION
FIRST NATIONAL BANK OF BOSTON
FIRST NATIONAL BANK OF MARYLAND
FRANKLIN COUNTY OF
GREENWICH POLICE DEPARTMENT
GROUP W TELEVISION / WJZ TV
GRUMMAN AEROSPACE CORPORATION
HARRISBURG CELLULAR TELEPHONE COMPANY
HUDSON VALLEY COMMUNITY COLLEGE
IBM RESEARCH AND DEVELOPMENT, INC.
INTERACTIVE MEDIA SERVICES
LAUREL RACETRACK
LAWRENCE SCHOOL DISTRICT
LEVER BROTHERS
LIZ CLAIBORNE, INC.
LOCAL AREA TELECOMMUNICATIONS INC
LONG ISLAND RAILROAD COMMUNICATIONS DEP
MALRITE
MARYLAND STATE OF MASS TRANSIT ADMIN
MCGRAW HILL, INC. NET ENG N-1
MCI TELECOMMUNICATIONS CORPORATION
MEDICAL COLLEGE OF PENNSYLVANIA
METRO CABLE SYSTEMS, INC.
METRO MOBILE CTS OF FAIRFIELD COUNTY



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.
226 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

(CONT'D)

METROMEDIA COMMUNICATIONS CORPORATION
METRONET COMMUNICATIONS
METRONET INC RADIO PAGING
MICRO TEL OF LONG ISLAND, INC.
MICROBAND CORPORATION OF AMERICA
MICROBAND WIRELESS CABLE OF NEW YORK, IN
MICRONET COMMUNICATIONS, INC.
MICRONET, INC.
MICROWAVE PLANNING, INC.
MICROWAVE SATELLITE TECH. - WOODSIDE
MIDLAND COMMUNICATIONS CORPORATION
MORGAN STANLEY
NASSAU, COUNTY OF POLICE DEPARTMENT
NATIONAL WESTMINSTER BANK
NBC SUBSIDIARY (WNBC-TV, INC.)
NEW ENGLAND DIGITAL DISTRIBUTION, INC.
NEW ENGLAND MICROWAVE INC (STORER)
NEW ENGLAND TELEPHONE COMPANY
NEW JERSEY BELL TELEPHONE COMPANY
NEW JERSEY INTERCAMPUS NETWORK, INC.
NEW JERSEY PUBLIC BROADCASTING AUTHORITY
NEW YORK STATE OF OFFICE GENERAL SRVCS
NEW YORK CELLULAR GEOGRAPHIC SRVC AREA
NEW YORK CGSA FOR ALBANY



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.
226 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

(CONT'D)

NEW YORK CITY HEALTH & HOSPITAL CORP
NEW YORK CITY POLICE DEPARTMENT
NEW YORK STATE ASSEMBLY
NEW YORK STATE ELECTRIC AND GAS
NEW YORK STATE HOSPITAL
NEW YORK TELEPHONE
NEW YORK UNIVERSITY, TELECOM. DEP'T.
NEW YORK, CITY OF BOARD OF EDUCATION
NORTHEASTERN PENNSYLVANIA CELLULAR TEL
NORTHFIELD MT HERMON SCHOOL
ORANGE COUNTY CELLULAR TELEPHONE CORP.
OTSEGO COUNTY, NEW YORK
PAINE-WEBBER
PORT AUTHORITY OF NEW YORK & NEW JERSEY
PROVIDENCE JOURNAL
PRUDENTIAL BACHE SECURITIES INC
PUTNAM COMPANIES
RANA INC
RCI NETWORK SERVICES
ROBERT PLAN INSURANCE CORPORATION
SAINT JOSEPH HOSPITAL
SANDERS ASSOCIATES
SCHENECTADY COUNTY, NEW YORK/LAW ENFORCE
SCRIPPS HOWARD BROADCASTING CO, INC
SOUTHEASTERN PENNSYLVANIA AUTHORITY



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.
226 East 96th Street, New York, NY 10128
18 GHz Video Microwave System
Third Ave -> 1112 Park Ave, NY
1 Lincoln Plaza -> 33 West 67th, NY
205 E 64th -> 301 East 62nd, 25 Sutton, NY

(CONT'D)

SOUTHERN NEW ENGLAND TELEPHONE CO
SOUTHWESTERN BELL MOBILE SYSTEMS - MA
SPEAR LEEDS AND KELLOGG INC
SPENCER GIFTS
STATE STREET BANK AND TRUST COMPANY
STATE UNIVERSITY OF NEW YORK
SUBURBAN CABLE TV CO INC
SUPERIOR CABLE TV
SUSQUEHANNA CELLULAR COMM LTD PARTNERSHI
TELEMARK NETWORKS, INC
TELEMEDIA COMMUNICATIONS, INC
THE BOEING COMPANY
TUFTS UNIVERSITY
URBAN CABLESYSTEMS CORPORATION
WATCH TOWER BIBLE & TRACT SOCIETY OF NY
WATERFRONT COMMUNICATIONS CORPORATION
WCAU-TV
WELCH ALLYN INC
WEST CORP COMMUNICATIONS, INC.
WEST JERSEY HEALTH SYSTEM
WESTCHESTER, COUNTY OF
WHYY, INC.
WILCO ELECTRONIC SYSTEMS, INC
WXTV-TV

RESPECTFULLY SUBMITTED,

COMSEARCH

MICHAEL R. ROTH
ENGINEER
TRANSMISSION PLANNING SERVICES

COMSEARCH
11720 Sunrise Valley Drive
Reston, Virginia 22091
(703) 620-6300

SUPPLEMENTAL SHOWING, RE: PART 94.15(b)

05/24/93

PURSUANT TO PART 94.15(b) OF THE FEDERAL COMMUNICATIONS
COMMISSION RULES AND REGULATIONS, AN ENGINEERING ANALYSIS
WAS PERFORMED BY COMSEARCH FOR:

LIBERTY CABLE CO., INC.

THIRD AVE -> 1112 PARK AVE, NY
1 LINCOLN -> 33 WEST 67TH, NY
205 E 64TH -> 25 SUTTON, 301 E 62ND, NY

18 GHZ VIDEO MICROWAVE SYSTEM

THE RESULTS OF THE STUDY INDICATE THAT THE PROPOSED
FREQUENCIES DO NOT CAUSE INTERFERENCE CONFLICTS WITH ANY
EXISTING OR APPLIED-FOR FACILITIES IN THE AREA.

THE LICENSEES AND CALL SIGNS OF THE STATIONS CONSIDERED
IN THE ANALYSIS ARE AS FOLLOWS:

AAD MICROWAVE SERVICES CORPORATION
EMPIRE FOSTER MALTAS RXONLY

AAT COMMUNICATIONS CORPORATION
GROVES WNTF925 WNTF926 WATERT

ABC RADIO NETWORK INC
WNTF713 WNTF714 WNTI941

ABRAHAM AND STRAUS
WNEI230 WNEI231 WNEI232 WNEP365

ACC NETWORK CORPORATION
WLL906

AETNA LIFE INSURANCE COMPANY
WNTG240 WNTG241

COMSEARCH
 11720 Sunrise Valley Drive
 Reston, Virginia 22091
 (703) 620-6300

ALBANY TELEPHONE COMPANY
 EXCHAN LATHAM NIMONY WLN829 WLU913 WLV507

ALLENTOWN CELLULAR TELEPHONE COMPANY
 WLC579 WLV396 WLV417

AMERICAN CELL. NET. CORP. DBA COMCAST CE
 EDISON LAWREN PISCAT TRENTO WLU865 WLU866
 WLV388

AMERICAN SATELLITE COMPANY
 KFN77 WLT371

AMICA MUTUAL INSURANCE CO C/O NEW ENG DI
 LINCOL WNTJ593 WNTJ594 PROVID

ASSOCIATED PRESS - CTS ENGINEERING
 WNEU726 WNEU727 WNEU728

BOLT BERANEK AND NEWMAN INC
 WNEK843 WNES254

BOSTON EDISON COMPANY
 KCE54 KQV46 MASSA WIA243

CABLE SCIENCE CORPORATION
 12161F 12205F 12399F 1BAYCL 225VAN 675LIN
 902DRE

CANTON CELLULAR TELEPHONE - PENNSYLVANIA
 WLU914 WMJ532

CARL COMPANY
 WNEW501 WNEW517

CELLULAR OF UPSTATE NEW YORK
 WLR257 WLR261

CELLULAR TELEPHONE COMPANY OF NEW YORK
 NORTHV OYSTER PLAINV RIVERH

CHANNEL 13 TELEVISION
 60WASH RXONLY

CHANNEL 20 LICENSEE INC
 WNEC213 WNEY957 WNTB844 RECEIV

COMSEARCH
 11720 Sunrise Valley Drive
 Reston, Virginia 22091
 (703) 620-6300

CHASE MANHATTAN BANK
 WNEE314 WNEE315 WNEF312 WNEF313 WNEI297

CITY UNIVERSITY OF NEW YORK
 MEDGAR MEDOLD

COLUMBIA UNIVERSITY
 WEH950 WEH951

COMDISCO DISASTER RECOVERY SERVICE
 WNEW385 WNEW386 WNEW387

COMMUNITY HOME ENTERTAINMENT
 DARROW RXONLY

COMPUGRAPHIC
 WNEE816 WNEE817

CONNECTICUT BANK AND TRUST COMPANY
 WGY428 WGY429

CONNECTICUT LIGHT AND POWER COMPANY
 KCH90 KYX94 WNEO535 WNEO536 WNEO537 WNEW710
 WNEW711 WGX602

CONNECTICUT PUBLIC BROADCASTING, INC.
 AVON FARMIN GLASTO HARTFO WLI722 WLI726

CONSOLIDATED EDISON COMPANY OF NEW YORK
 4IRVIN WNEK492 WNEQ666 WNEQ667 WNER861 WNTM742
 WNTM743 WGY376 WGY378

CONSOLIDATED RAIL CORPORATION
 WNTH266 WNTH267 WNTH268

CORP. SATELLITE COMMUNICATIONS INC (CSC)
 WNTB677 WHO628

DELMARVA POWER & LIGHT CO.
 WNEQ347 WNTK378 WED963 WJI79

DIGICOM INC
 WLM419 WLN220

DOW JONES AND COMPANY, INC.
 WNTI382 WNTI383

EBASCO SERVICES, INC.
 WEE641 WGY475

COMSEARCH
 11720 Sunrise Valley Drive
 Reston, Virginia 22091
 (703) 620-6300

EDUCATIONAL BROADCASTING COMPANY
 WNEY441 RXONLY

ELECTRONIC DATA SYSTEMS, INC.
 WNEH993 WNTTE749

EMI COMMUNICATIONS CORPORATION
 WAU262 WDU469 WFY661 WHE540 WHE558 WHS952
 WHT309 WLB733 WLN513 WLT684 WLU258

FAIRCHILD COMM NETWORK MNGMT CO
 APCITR AT&TLA

FIRST BOSTON CORPORATION
 WNEV277 WNEV671 WNTI612 WNTI613 WNTI614

FIRST NATIONAL BANK OF BOSTON
 KYW57 WNEG431

FIRST NATIONAL BANK OF MARYLAND
 WNET904 WNET905 WNET910 WNEV845 SPARRO

FRANKLIN COUNTY OF
 164HIG OLDALB

GREENWICH POLICE DEPARTMENT
 WNTN531 WNTN532 WNTN533 WNTN534 WNTN535

GROUP W TELEVISION / WJZ TV
 WNER697 WNTL882 RXONLY WDT919

GRUMMAN AEROSPACE CORPORATION
 BLDG11 KEF55 WGY415 WGY417 WHJ314 WOODBU

HARRISBURG CELLULAR TELEPHONE COMPANY
 WLU931 WLV546

HUDSON VALLEY COMMUNITY COLLEGE
 WNTI381 RXONLY

IBM RESEARCH AND DEVELOPMENT, INC.
 WNEK528 WNTG324 WEG929 WHI472

INTERACTIVE MEDIA SERVICES
 51MERC BROADH BROOKV WNEW734 WNEW736 WNEW737
 WNEW797 WNTI967

LAUREL RACETRACK
 HAYWAR NROLLI