Approved by OMB
060-0064
Expires 5/31/95
See Instructions for Public Burden Estimate

FEDERAL COMMUNICATIONS COMMISSION

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

FCC USE ONLY: 7/17/95 Amend.

Fee Amount Received $

SECTION I - IDENTIFICATION INFORMATION

1. NAME AND MAILING ADDRESS OF APPLICANT: (No., street, city, state, ZIP code)

Liberty Cable Co., Inc.
215 East 95th Street, Suite 1A
New York, NY 10128
Attn: Behrooz Nourain

☐ Check here if you are a current Part 94 licensee and your mailing address above is NOT the address on file

2. APPLICANT'S PART 94 CALL SIGN: WNTM385

3. PAYMENT TYPE CODE:

4. LICENSEE IDENTIFICATION NUMBER: (If previously assigned by the Commission) 005203-200

5A. NAME OF PERSON TO CONTACT REGARDING APPLICATION: Michael J. Lehmkuhl, Esquire

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

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

7. CLASS OF STATION: (enter code) FXO

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

9A. PURPOSE OF APPLICATION: ☐ NEW STATION ☐ MODIFICATION (SEE 9B & C) ☐ MODIFICATION WITH RENEWAL ☐ ASSIGNMENT OF AUTHORIZATION ☒ OTHER (SPECIFY) → Amendment: File No. 70877

9B.

PATH	ACTION			OLD VALUE OF KEY ITEMS CHANGED							
A	☒ ADD	☐ CHANGE	☐ DELETE	20		30		31		32	
B	☒ ADD	☐ CHANGE	☐ DELETE	20		30		31		32	
C	☒ ADD	☐ CHANGE	☐ DELETE	20		30		31		32	
D	☒ ADD	☐ CHANGE	☐ DELETE	20		30		31		32	
E	☒ ADD	☐ CHANGE	☐ DELETE	20		30		31		32	

9C. DESCRIBE ANY OTHER CHANGES: Add Path F

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) 1692 Third Avenue (Normandie Court)

B. CITY: New York

C. COUNTY: New York

D. STATE: NY

E. COORDINATES (Degrees, Minutes, Seconds): LATITUDE 40° 47' 03.0" N LONGITUDE: 073° 56' 54.0" W

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

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

12C. NAME OF CURRENT LICENSEE USING STRUCTURE: N/A

12D. CURRENT LICENSEE'S RADIO SERVICE: N/A

12E. CURRENT LICENSEE'S CALL SIGN: N/A

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: → N/A 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): → 395.0 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 ABOVE GROUND OF THIS SUPPORTING STRUCTURE PLUS THE ANTENNA TOWER (OR POLE)? → 395.0 FT

15. GIVE THE GROUND ELEVATION ABOVE MEAN SEA LEVEL AT THE ANTENNA SITE: → 30.0 FT

16A. NAME OF NEAREST AIRCRAFT LANDING AREA: LaGuardia

16B. DIRECTION AND DISTANCE TO NEAREST RUNWAY: ENE 3.64 mi

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 Construction Notice was filed under:	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)					
21. Bandwidth (kHz) and Emission Type					
22. Type of Message Service					
23. Initial Baseband Channel Loading					
24. 10 Year 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.

By checking "YES", the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits, that includes FC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S. Code Section 862, or, in the case of a non-individual applicant (e.g. corporatio partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits, that includes FCC benefits, pursuant that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

47. DOES APPLICANT SO CERTIFY? ☒ YES ☐ NO

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT, (U.S. CODE, TITLE 18, SEC. 1001), AND/OR REVOCATION OF AN STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SEC. 312(A)(1)) AND/OR FORFEITURE (U.S. CODE, TITLE 47, SEC. 503).

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. DATE: 7-17-95

Behrooz Nourain

COMSEARCH
2002 Edmund Halley Drive
Reston, Virginia 22091
(703) 620-6300

LIBERTY CABLE TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		THIRD AVE NY		EAST 86TH ST NY
PATH STATUS		PROPOSED OR PRIOR COORDINATED		
CALL SIGN				
LATITUDE	(D-M-S)	40 47 3.0		40 46 49.0
LONGITUDE	(D-M-S)	73 56 54.0		73 57 32.0
GROUND ELEV	(Ft-AMSL)	30		95
PATH AZIMUTH	(Deg)	244.146		64.139
PATH DISTANCE	(Miles)		0.615	
	(Km)		0.990	
ANTENNA				
PRIMARY	TX	CABLEWAVE SYSTEMS PA4-190		NOT APPLICABLE
ANT CODE		CB0082		
GAIN	(dBi)	44.7		
C/L	(Ft-AGL)	392		
PRIMARY	RX	NOT APPLICABLE		CABLEWAVE SYSTEMS PA6-190
ANT CODE				CB0093
GAIN	(dBi)			48.2
C/L	(Ft-AGL)			174
DIVERSITY				
ANT CODE				
GAIN	(dBi)			
C/L	(Ft-AGL)			
EQUIPMENT		HUGHES AIRCRAFT CO D0063QAMLMOT18120		RECEIVE ONLY
EQP CODE		TEM169		
EMISSION		5M75C3F/250KF3E/100KNON		
LOADING		VIDEO		VIDEO
STABILITY	(%)	0.000500		0.000500
POWER	(dBm)/(Watts)	-10.0/0.000		
RECEIVED LEVEL	(dBm)			-46.9
EIRP	(dBm)/(Watts)	22.7/0.2		
FIXED LOSSES	(dB)	12.0		0.0
FREE SPACE LOSS	(dB)		117.8	

TRANSMIT FREQUENCIES (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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

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LIBERTY CABLE TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		THIRD AVE NY		1036 PARK NY	
PATH STATUS		PROPOSED OR PRIOR COORDINATED			
CALL SIGN					
LATITUDE	(D-M-S)	40 47 3.0		40 46 48.0	
LONGITUDE	(D-M-S)	73 56 54.0		73 57 30.0	
GROUND ELEV	(Ft-AMSL)	30		94	
PATH AZIMUTH	(Deg)	241.275		61.268	
PATH DISTANCE	(Miles)		0.598		
	(Km)		0.963		
ANTENNA					
PRIMARY	TX	CABLEWAVE SYSTEMS		NOT APPLICABLE	
		PA4-190			
ANT CODE		CB0082			
GAIN	(dBi)	44.7			
C/L	(Ft-AGL)	392			
PRIMARY	RX	NOT APPLICABLE		CABLEWAVE SYSTEMS	
				PA6-190	
ANT CODE				CB0093	
GAIN	(dBi)			48.2	
/L	(Ft-AGL)			240	
DIVERSITY					
ANT CODE					
GAIN	(dBi)				
C/L	(Ft-AGL)				
EQUIPMENT		HUGHES AIRCRAFT CO		RECEIVE	
		DO063QAMLMOT18120		ONLY	
EQP CODE		TEM169			
EMISSION		5M75C3F/250KF3E/100KNON			
LOADING		VIDEO		VIDEO	
STABILITY (%)		0.000500		0.000500	
POWER	(dBm)/(Watts)	-10.0/0.000			
RECEIVED LEVEL	(dBm)			-43.7	
EIRP	(dBm)/(Watts)	25.7/0.4			
FIXED LOSSES	(dB)	9.0		0.0	
FREE SPACE LOSS	(dB)		117.6		

TRANSMIT FREQUencies (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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

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LIBERTY CABLE TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		THIRD AVE NY		EAST 92 ST NY
PATH STATUS		PROPOSED OR PRIOR COORDINATED		
CALL SIGN				
LATITUDE	(D-M-S)	40 47 3.0		40 47 5.0
LONGITUDE	(D-M-S)	73 56 54.0		73 57 22.0
GROUND ELEV	(Ft-AMSL)	30		110
PATH AZIMUTH	(Deg)	275.371		95.366
PATH DISTANCE	(Miles)		0.410	
	(Km)		0.659	
ANTENNA				
PRIMARY	TX	CABLEWAVE SYSTEMS		NOT APPLICABLE
		PA4-190		
ANT CODE		CB0082		
GAIN	(dBi)	44.7		
C/L	(Ft-AGL)	392		
PRIMARY	RX	NOT APPLICABLE		CABLEWAVE SYSTEMS
				PA6-190
ANT CODE				CB0093
GAIN	(dBi)			48.2
C/L	(Ft-AGL)			139
DIVERSITY				
ANT CODE				
GAIN	(dBi)			
C/L	(Ft-AGL)			
EQUIPMENT		HUGHES AIRCRAFT CO		RECEIVE
		DOO63QAMLMOT18120		ONLY
EQP CODE		TEM169		
EMISSION		5M75C3F/250KF3E/100KNON		
LOADING		VIDEO		VIDEO
STABILITY (%)		0.000500		0.000500
POWER	(dBm)/(Watts)	-10.0/0.000		
RECEIVED LEVEL	(dBm)			-46.4
EIRP	(dBm)/(Watts)	19.7/0.1		
FIXED LOSSES	(dB)	15.0		0.0
FREE SPACE LOSS	(dB)		114.3	

TRANSMIT FREQUENCIES (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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 TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		THIRD AVE NY		EAST 93RD ST NY
PATH STATUS		PROPOSED OR PRIOR COORDINATED		
CALL SIGN				
LATITUDE	(D-M-S)	40 47 3.0		40 47 6.0
LONGITUDE	(D-M-S)	73 56 54.0		73 57 19.0
GROUND ELEV	(Ft-AMSL)	30		110
PATH AZIMUTH	(Deg)	278.973		98.969
PATH DISTANCE	(Miles)		0.369	
	(Km)		0.593	
ANTENNA				
PRIMARY	TX	CABLEWAVE SYSTEMS		NOT APPLICABLE
		PA4-190		
ANT CODE		CB0082		
GAIN	(dBi)	44.7		
C/L	(Ft-AGL)	388		
PRIMARY	RX	NOT APPLICABLE		CABLEWAVE SYSTEMS
				PA6-190
ANT CODE				CB0093
GAIN	(dBi)			48.2
C/L	(Ft-AGL)			105
DIVERSITY				
ANT CODE				
GAIN	(dBi)			
C/L	(Ft-AGL)			
EQUIPMENT		HUGHES AIRCRAFT CO		RECEIVE
		DOO63QAMLMOT18120		ONLY
EQP CODE		TEM169		
EMISSION		5M75C3F/250KF3E/100KNON		
LOADING		VIDEO		VIDEO
STABILITY (%)		0.000500		0.000500
POWER	(dBm)/(Watts)	-10.0/0.000		
RECEIVED LEVEL	(dBm)			-40.5
EIRP	(dBm)/(Watts)	24.7/0.3		
FIXED LOSSES	(dB)	10.0		0.0
FREE SPACE LOSS	(dB)		113.4	

TRANSMIT FREQUENCIES (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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

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LIBERTY CABLE TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		THIRD AVE NY		1310 MADISON NY
PATH STATUS		PROPOSED OR PRIOR COORDINATED		
CALL SIGN				
LATITUDE	(D-M-S)	40 47 3.0		40 47 7.0
LONGITUDE	(D-M-S)	73 56 54.0		73 56 23.5
GROUND ELEV	(Ft-AMSL)	30		110
PATH AZIMUTH	(Deg)	80.208		260.214
PATH DISTANCE	(Miles)		0.451	
	(Km)		0.726	
ANTENNA				
PRIMARY	TX	CABLEWAVE SYSTEMS PA4-190		NOT APPLICABLE
ANT CODE		CB0082		
GAIN	(dBi)	44.7		
C/L	(Ft-AGL)	392		
PRIMARY	RX	NOT APPLICABLE		CABLEWAVE SYSTEMS PA6-190
ANT CODE				CB0093
GAIN	(dBi)			48.2
C/L	(Ft-AGL)			142
DIVERSITY				
ANT CODE				
GAIN	(dBi)			
C/L	(Ft-AGL)			
EQUIPMENT		HUGHES AIRCRAFT CO DOO63QAMLMOT18120		RECEIVE ONLY
EQP CODE		TEM169		
EMISSION		5M75C3F/25OKF3E/100KNON		
LOADING		VIDEO		VIDEO
STABILITY (%)		0.000500		0.000500
POWER	(dBm)/(Watts)	-10.0/0.000		
RECEIVED LEVEL	(dBm)			-44.2
EIRP	(dBm)/(Watts)	22.7/0.2		
FIXED LOSSES	(dB)	12.0		0.0
FREE SPACE LOSS	(dB)		115.1	

TRANSMIT FREQUENCIES (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : THIRD AVE , NY
TRANSMITTER COORDINATES : 40 47 3.0 N
73 56 54.0 W

20.	FREQUENCY (MHz):	SEE EXHIBIT #1
21.	EMISSION:	SEE EXHIBIT #1
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):	22.7
28.	BEAM WIDTH (DEGREES):	0.9
29.	CENTER OF RADIATING ELEMENT (Ft):	392.0
30.	POLARIZATION:	V
31.	AZIMUTH TO NEXT STATION OR PR1(Deg):	80.208

RECEIVER INFORMATION

RECEIVER SITE NAME : 1310 MADISON, NY

32.	CALL SIGN:	
33.	RECEIVING ANTENNA GAIN (dBi):	48.2
34.	MEDIAN RECEIVED SIGNAL LEVEL (dBm):	-44.2
35.	LATITUDE N. (D-M-S):	40 47 7.0
36.	LONGITUDE W. (D-M-S):	73 56 23.5
37.	GROUND ELEVATION AMSL (Ft):	110.0
38.	HT. TO RECEIVING ANTENNA (Ft):	142.0

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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

*** COMSEARCH ***

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : THIRD AVE , NY
TRANSMITTER COORDINATES : 40 47 3.0 N
73 56 54.0 W

20.	FREQUENCY (MHz):	SEE EXHIBIT #1
21.	EMISSION:	SEE EXHIBIT #1
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):	25.7
28.	BEAM WIDTH (DEGREES):	0.9
29.	CENTER OF RADIATING ELEMENT (Ft):	392.0
30.	POLARIZATION:	V
31.	AZIMUTH TO NEXT STATION OR PR1(Deg):	241.275

RECEIVER INFORMATION

RECEIVER SITE NAME : 1036 PARK , NY

32.	CALL SIGN:	
33.	RECEIVING ANTENNA GAIN (dBi):	48.2
34.	MEDIAN RECEIVED SIGNAL LEVEL (dBm):	-43.7
35.	LATITUDE N. (D-M-S):	40 46 48.0
36.	LONGITUDE W. (D-M-S):	73 57 30.0
37.	GROUND ELEVATION AMSL (Ft):	94.0
38.	HT. TO RECEIVING ANTENNA (Ft):	240.0

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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

*** COMSEARCH ***

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : THIRD AVE , NY
TRANSMITTER COORDINATES : 40 47 3.0 N
73 56 54.0 W

20.	FREQUENCY (MHz):	SEE EXHIBIT #1
21.	EMISSION:	SEE EXHIBIT #1
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):	24.7
28.	BEAM WIDTH (DEGREES):	0.9
29.	CENTER OF RADIATING ELEMENT (Ft):	392.0
30.	POLARIZATION:	V
31.	AZIMUTH TO NEXT STATION OR PR1(Deg):	242.106

RECEIVER INFORMATION

RECEIVER SITE NAME : EAST 85TH ST, NY

32.	CALL SIGN:	
33.	RECEIVING ANTENNA GAIN (dBi):	48.2
34.	MEDIAN RECEIVED SIGNAL LEVEL (dBm):	-43.8
35.	LATITUDE N. (D-M-S):	40 46 48.0
36.	LONGITUDE W. (D-M-S):	73 57 34.0
37.	GROUND ELEVATION AMSL (Ft):	95.0
38.	HT. TO RECEIVING ANTENNA (Ft):	195.0

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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

*** COMSEARCH ***

FCC FORM 402 ENGINEERING DATA

PASSIVE REPEATER INFORMATION

38 EAST 85 -- EAST 85TH ST

39.	LATITUDE N. (D M S):	40 46 46.5
40.	LONGITUDE W. (D M S):	73 57 35.0
41.	GROUND ELEVATION AMSL (Ft):	95
42.	HT. OF PR 1 STRUCTURE (Ft):	119.0
43.	DIM. (Ft X Ft) OR BEAMWIDTH (Deg):	0.650
44.	HT. TO CENTER OF PR 1 (Ft):	112.0
45.	POLARIZATION:	V
46.	AZIMUTH-PR 1 TO NEXT STATION (Deg):	26.875

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LIBERTY CABLE TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		THIRD AVE NY		38 EAST 85 NY
PATH STATUS		PROPOSED OR PRIOR COORDINATED		
CALL SIGN				
LATITUDE	(D-M-S)	40 47 3.0		40 46 46.5
LONGITUDE	(D-M-S)	73 56 54.0		73 57 35.0
GROUND ELEV	(Ft-AMSL)	30		95
PATH AZIMUTH	(Deg)	242.106		62.099
PATH DISTANCE	(Miles)		0.676	
	(Km)		1.088	
ANTENNA				
PRIMARY	TX	CABLEWAVE SYSTEMS		CABLEWAVE SYSTEMS
		PA4-190		PA6-190
ANT CODE		CB0082		CB0093
GAIN	(dBi)	44.7		48.2
C/L	(Ft-AGL)	392		119
PRIMARY	RX			
ANT CODE				
GAIN	(dBi)		SAME AS TRANSMITTER	
C/L	(Ft-AGL)			
DIVERSITY				
ANT CODE				
GAIN	(dBi)			
C/L	(Ft-AGL)			
EQUIPMENT		HUGHES AIRCRAFT CO		PASSIVE
		DOO63QAMLMOT18120		REPEATER
EQP CODE		TEM169		PASSIV
EMISSION		5M75C3F/250KFE3/100KNON		
LOADING		VIDEO		
STABILITY (%)		0.000500		
POWER	(dBm)/(Watts)	-10.0/0.000		
RECEIVED LEVEL	(dBm)			
EIRP	(dBm)/(Watts)	24.7/0.3		
FIXED LOSSES	(dB)	10.0		0.0
FREE SPACE LOSS	(dB)		118.6	

TRANSMIT FREQUENCIES (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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

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LIBERTY CABLE TV 07/03/95

MICROWAVE PATH DATA

STATION NAME		38 EAST 85 NY		EAST 85TH ST NY
PATH STATUS		PROPOSED OR PRIOR COORDINATED		
CALL SIGN				
LATITUDE	(D-M-S)	40 46 46.5		40 46 48.0
LONGITUDE	(D-M-S)	73 57 35.0		73 57 34.0
GROUND ELEV	(Ft-AMSL)	95		95
PATH AZIMUTH	(Deg)	26.875		206.875
PATH DISTANCE	(Miles)		0.032	
	(Km)		0.052	
ANTENNA				
PRIMARY	TX	CABLEWAVE SYSTEMS		NOT APPLICABLE
		PA6-190		
ANT CODE		CB0093		
GAIN	(dBi)	48.2		
C/L	(Ft-AGL)	112		
PRIMARY	RX	NOT APPLICABLE		CABLEWAVE SYSTEMS
				PA6-190
ANT CODE				CB0093
GAIN	(dBi)			48.2
C/L	(Ft-AGL)			195
DIVERSITY				
ANT CODE				
GAIN	(dBi)			
C/L	(Ft-AGL)			
EQUIPMENT		PASSIVE REPEATER		RECEIVE ONLY
EQP CODE		PASSIV		
EMISSION				
LOADING				VIDEO
STABILITY	(%)			0.000500
POWER	(dBm)/(Watts)			
RECEIVED LEVEL	(dBm)			-43.8
EIRP	(dBm)/(Watts)	0.2/0.0		
FIXED LOSSES	(dB)	2.0		0.0
FREE SPACE LOSS	(dB)		92.2	

TRANSMIT FREQUENCIES (MHZ)

18145.0V,18151.0V,18157.0V,18163.0V,18169.0V,18175.0V,18181.0V,
18187.0V,18193.0V,18199.0V,18205.0V,18211.0V,18217.0V,18223.0V,
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

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : THIRD AVE , NY
TRANSMITTER COORDINATES : 40 47 3.0 N
73 56 54.0 W

20.	FREQUENCY (MHz):	SEE EXHIBIT #1
21.	EMISSION:	SEE EXHIBIT #1
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):	22.7
28.	BEAM WIDTH (DEGREES):	0.9
29.	CENTER OF RADIATING ELEMENT (Ft):	392.0
30.	POLARIZATION:	V
31.	AZIMUTH TO NEXT STATION OR PR1(Deg):	244.146

RECEIVER INFORMATION
RECEIVER SITE NAME : EAST 86TH ST, NY

32.	CALL SIGN:	
33.	RECEIVING ANTENNA GAIN (dBi):	48.2
34.	MEDIAN RECEIVED SIGNAL LEVEL (dBm):	-46.9
35.	LATITUDE N. (D-M-S):	40 46 49.0
36.	LONGITUDE W. (D-M-S):	73 57 32.0
37.	GROUND ELEVATION AMSL (Ft):	95.0
38.	HT. TO RECEIVING ANTENNA (Ft):	174.0

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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

*** COMSEARCH ***

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : THIRD AVE , NY
TRANSMITTER COORDINATES : 40 47 3.0 N
73 56 54.0 W

20.	FREQUENCY (MHz):	SEE EXHIBIT #1
21.	EMISSION:	SEE EXHIBIT #1
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):	392.0
30.	POLARIZATION:	V
31.	AZIMUTH TO NEXT STATION OR PR1(Deg):	275.371

RECEIVER INFORMATION

RECEIVER SITE NAME : EAST 92 ST , NY

32.	CALL SIGN:	
33.	RECEIVING ANTENNA GAIN (dBi):	48.2
34.	MEDIAN RECEIVED SIGNAL LEVEL (dBm):	-46.4
35.	LATITUDE N. (D-M-S):	40 47 5.0
36.	LONGITUDE W. (D-M-S):	73 57 22.0
37.	GROUND ELEVATION AMSL (Ft):	110.0
38.	HT. TO RECEIVING ANTENNA (Ft):	139.0

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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

*** COMSEARCH ***

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : THIRD AVE , NY
TRANSMITTER COORDINATES : 40 47 3.0 N
73 56 54.0 W

20.	FREQUENCY (MHz):	SEE EXHIBIT #1
21.	EMISSION:	SEE EXHIBIT #1
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):	24.7
28.	BEAM WIDTH (DEGREES):	0.9
29.	CENTER OF RADIATING ELEMENT (Ft):	388.0
30.	POLARIZATION:	V
31.	AZIMUTH TO NEXT STATION OR PR1(Deg):	278.973

RECEIVER INFORMATION
RECEIVER SITE NAME : EAST 93RD ST, NY

32.	CALL SIGN:	
33.	RECEIVING ANTENNA GAIN (dBi):	48.2
34.	MEDIAN RECEIVED SIGNAL LEVEL (dBm):	-40.5
35.	LATITUDE N. (D-M-S):	40 47 6.0
36.	LONGITUDE W. (D-M-S):	73 57 19.0
37.	GROUND ELEVATION AMSL (Ft):	110.0
38.	HT. TO RECEIVING ANTENNA (Ft):	105.0

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SUPPLEMENTAL INFORMATION

TRANSMITTER INFORMATION

TRANSMITTER ANTENNA MAKE:	CABLEWAVE SYSTEMS
TRANSMITTER ANTENNA MODEL:	PA4-190
EQUIPMENT MAKE:	HUGHES AIRCRAFT CO
EQUIPMENT MODEL:	DO063QAMLMOT18120

RECEIVER INFORMATION

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

*** COMSEARCH ***

EXHIBIT #1

FREQUENCY (MHz)	EMISSION DESIGNATOR
18145.0	5M75C3F/250KF3E
18151.0	5M75C3F/250KF3E
18157.0	5M75C3F/250KF3E
18163.0	100KNON
18169.0	5M75C3F/250KF3E
18175.0	5M75C3F/250KF3E
18181.0	5M75C3F/250KF3E
18187.0	5M75C3F/250KF3E
18193.0	5M75C3F/250KF3E
18199.0	5M75C3F/250KF3E
18205.0	5M75C3F/250KF3E
18211.0	5M75C3F/250KF3E
18217.0	5M75C3F/250KF3E
18223.0	5M75C3F/250KF3E
18229.0	5M75C3F/250KF3E
18235.0	5M75C3F/250KF3E
18241.0	5M75C3F/250KF3E
18247.0	5M75C3F/250KF3E
18253.0	5M75C3F/250KF3E
18259.0	5M75C3F/250KF3E
18265.0	5M75C3F/250KF3E
18271.0	5M75C3F/250KF3E
18277.0	5M75C3F/250KF3E
18283.0	5M75C3F/250KF3E
18289.0	5M75C3F/250KF3E
18295.0	5M75C3F/250KF3E
18301.0	5M75C3F/250KF3E
18307.0	5M75C3F/250KF3E
18313.0	5M75C3F/250KF3E
18319.0	5M75C3F/250KF3E
18325.0	5M75C3F/250KF3E
18331.0	5M75C3F/250KF3E
18337.0	5M75C3F/250KF3E
18343.0	5M75C3F/250KF3E
18349.0	5M75C3F/250KF3E
18355.0	5M75C3F/250KF3E
18361.0	5M75C3F/250KF3E
18367.0	5M75C3F/250KF3E
18373.0	5M75C3F/250KF3E
18379.0	5M75C3F/250KF3E
18385.0	5M75C3F/250KF3E
18391.0	5M75C3F/250KF3E
18397.0	5M75C3F/250KF3E
18403.0	5M75C3F/250KF3E
18409.0	5M75C3F/250KF3E
18415.0	5M75C3F/250KF3E
18421.0	5M75C3F/250KF3E

EXHIBIT #1

FREQUENCY (MHz)	EMISSION DESIGNATOR
18427.0	5M75C3F/250KF3E
18433.0	5M75C3F/250KF3E
18439.0	5M75C3F/250KF3E
18445.0	5M75C3F/250KF3E
18451.0	5M75C3F/250KF3E
18457.0	5M75C3F/250KF3E
18463.0	5M75C3F/250KF3E
18469.0	5M75C3F/250KF3E
18475.0	5M75C3F/250KF3E
18481.0	5M75C3F/250KF3E
18487.0	5M75C3F/250KF3E
18493.0	5M75C3F/250KF3E
18499.0	5M75C3F/250KF3E
18505.0	5M75C3F/250KF3E
18511.0	5M75C3F/250KF3E
18517.0	5M75C3F/250KF3E
18523.0	5M75C3F/250KF3E
18529.0	5M75C3F/250KF3E
18535.0	5M75C3F/250KF3E
18541.0	5M75C3F/250KF3E
18547.0	5M75C3F/250KF3E
18553.0	5M75C3F/250KF3E
18559.0	5M75C3F/250KF3E
18565.0	5M75C3F/250KF3E
18571.0	5M75C3F/250KF3E
18577.0	5M75C3F/250KF3E

FUNCTIONAL SYSTEM DIAGRAM

N 1310 Madison
40-47-07 N 73-56-23.5 W
80.208 Azimuth

N 1036 Park
40-46-48 N 73-57-30 W
241.275 Azimuth

N RX East 85th Street
40-46-48 N 73-57-34 W
Azimuth

N REPEATER 38 East 85th Street
40-46-46.5 N 73-57-35 W
242.106 Azimuth

N East 86th Street
40-46-49 N 73-57-32 W
244.146 Azimuth

N East 92nd Street
40-47-05 N 73-57-22 W
275.371 Azimuth

N East 93rd Street
40-47-06 N 73-57-19 W
278.973 Azimuth

P RX 120 East End
40-46-28.5 N 73-56-46 W
Azimuth

P RX 44 West 96th Street
40-47-31.5 N 73-58-2.5 W
Azimuth

P REPEATER 510 East 86th Street
40-46-31 N 73-56-50 W
174.571 Azimuth

P 1185 Park Avenue
40-47-04 N 73-57-12 W
274.182 Azimuth

P 44 West 96th Street
40-47-31.5 N 73-58-03 W
298.526 Azimuth

P REPEATER 12 West 96th Street
40-47-30 N 73-57-58 W
299.037 Azimuth

P 400 Central
40-47-03 N 73-56-54 W
309.185 Azimuth

P 441 East 92nd Street
40-46-46 N 73-56-43 W
153.808 Azimuth

P 120 East End, NYC
40-46-28 N 73-56-39 W
161.953 Azimuth

P 525 East 86th Street
40-46-38 N 73-56-46 W
166.327 Azimuth

P 567 Fifth Avenue
40-45-46 N 73-58-23 W
221.315 Azimuth

02 205 East 64th Street
40-45-53 N 73-57-48 W
210.395 Azimuth

03 179 East 70th Street
40-46-08 N 73-57-44 W
214.653 Azimuth

04 1 Lincoln Plaza
40-46-18 N 73-58-55 W
243.943 Azimuth

05 Stone Hedge
40-47-59 N 73-59-48.5 W
292.907 Azimuth

06 12 West 96th Street
40-47-30 N 73-57-58 W
299.037 Azimuth

07 535 East 86th Street
40-46-30 N 73-56-45 W
168.286 Azimuth

08 345 East 86th Street
40-46-37 N 73-57-00 W
189.950 Azimuth

09 1675 York Avenue (Andover)
40-46-40 N 73-56-48 W
168.783 Azimuth

10 19 East 88th Street
40-46-56.5 N 73-57-30 W
210.395 Azimuth

11 180 East End
40-46-36 N 73-56-42 W
161.331 Azimuth

12 510 East 86th Street
40-46-31 N 73-56-50 W
174.561 Azimuth

13 90 Riverside
40-47-10 N 73-58-42.5 W
274.861 Azimuth

14 302 East 88th Street
40-46-43 N 73-57-04 W
200.812 Azimuth

15 38 East 85th Street
40-46-46.5 N 73-57-35 W
242.106 Azimuth

16 60 East End
40-46-22 N 73-56-50 W
175.758 Azimuth

N = Subject of this Application P = Pending

FUNCTIONAL SYSTEM DIAGRAM

17 High Gate
40-47-02 N 73.57-03 W
261.685 Azimuth

18 1112 Park Avenue
40-46-57.5 N 73-57-23 W
255.993 Azimuth

19 1155 Park Avenue
40-47-00 N 73-57-16.5 W
260.053 Azimuth

20 80 East End
40-46-23.5 N 73-56-48 W
173.412 Azimuth

21 1001 5th Avenue
40-46-42.5 N 73-57-45 W
242.136 Azimuth

23 REPEATER Claridge
40-46-47 N 73-57-12 W
220.538 Azimuth

24 RX 170 East 87th Street
40-46-45 N 73-57-16.5 W
239.688 Azimuth

25 49 East 86th Street
40-46-51.5 N 73-57-33 W
248.802 Azimuth

26 1111 Park Avenue
40-46-56 N 73-57-20 W
250.499 Azimuth

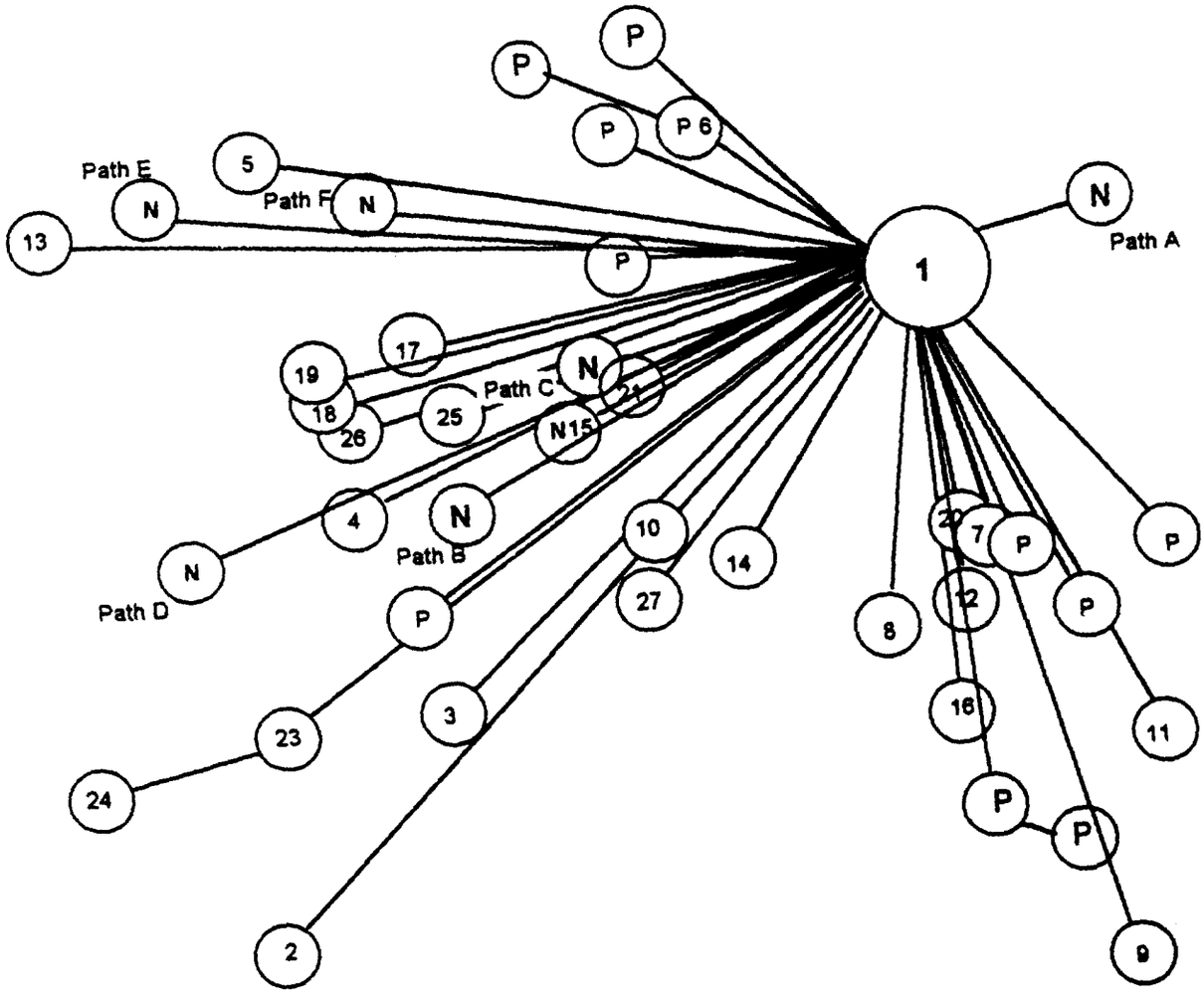
27 245 East 87th Street
40-46-43 N 73-57-07 W
206.295 Azimuth

N = Subject of this Application P = Pending

Liberty Cable Co., Inc.
New York, New York

Exhibit
FCC Form 4(

FUNCTIONAL SYSTEM DIAGRAM



1692 Third Avenue, NYC (Normandie Court)
40-47-03N 073-56-54W

N = Subject of this Application P = Pending

FREQUENCY COORDINATION ANALYSIS

Pursuant to Section 94.15(b) of the Commission's Rules, Liberty Cable Company, Inc. ("Liberty") has conducted a frequency engineering analysis of the potential interference between the proposed facilities and previously authorized and pending applications. Attached hereto are supplemental showings certifying compliance with the interference standards of Sections 21.100(d) and 94.63 of the Rules.

COMSEARCH
Leadership and Diversity for Wireless

July 3, 1995

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

RE: LIBERTY CABLE TV
12 Simplex Paths in New York
18 GHz Cable System
Prior Coordination Notification/New Path

********** EXPEDITED RESPONSE REQUESTED **********

Dear Frequency Coordinator:

On behalf of LIBERTY CABLE TV, Comsearch has completed the interference analysis for the system referenced above. Our analysis indicates that this proposal satisfies industry accepted interference criteria into your system(s). Pursuant to Parts 94.63(d) and 21.100(d) of the FCC Rules, we are enclosing the technical parameters of the system for your examination.

Please examine this data. If you believe that there could be potential conflicts between this proposal and your systems, please notify us in writing at your earliest convenience. DUE TO THE URGENT NATURE OF THIS COORDINATION, IF A RESPONSE IS NOT RECEIVED BY JULY 13, 1995, WE WILL ASSUME THAT THERE ARE NO OBJECTIONS TO THIS PROPOSAL.

If you should have any questions or require additional information, please contact me at (703) 476-2630.

Sincerely,

COMSEARCH

Duy Duong
Engineer
Microwave and Satellite Services

ENCLOSURE

057

2002 Edmund Halley Drive • Reston, Virginia 22091, USA • 703.620.6300 FAX 703.476.2697

COMSEARCH
Leadership and Diversity for Wireless

SUPPLEMENTAL SHOWING, PART 21.100(D)

LIBERTY CABLE TV
12 Simplex Paths in New York
18 GHz Cable System
Prior Coordination Notification/New Path

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 July 3, 1995.

THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

AAT COMMUNICATIONS CORPORATION
ABC RADIO NETWORKS
ABRAHAM AND STRAUS
ACC CORPORATION
ACS LICENSE, INC.
AETNA LIFE INSURANCE COMPANY
ALBANY TELEPHONE COMPANY
ALGONQUIN GAS TRANSMISSION CO
AMERICAN CELLULAR NETWORK CORP
AMERICAN SATELLITE COMPANY
AMICA MUTUAL INSURANCE CO C/O NEW ENG DI
ARCH CONNECTICUT VALLEY INC
ASSOCIATED PRESS - CTS ENGINEERING
ATLANTIC CELLULAR COMPANY, L.P.
BANK OF BOSTON
BELL ATLANTIC - NEW JERSEY, INC.
BELL ATLANTIC - WASHINGTON DC, INC.
BOEING HELICOPTER COMPANY
BOLT BERANEK AND NEWMAN INC
BOSTON EDISON COMPANY
BROWN UNIVERSITY
CABLE SCIENCE CORPORATION

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SUPPLEMENTAL SHOWING, PART 21.100(D)

LIBERTY CABLE TV
12 Simplex Paths in New York
18 GHz Cable System
Prior Coordination Notification/New Path

(CONT'D)

CABLEVISION LIGHT PATH
CABLEVISION LIGHT PATH, INC.
CABLEVISION SYSTEMS
CANTON CELLULAR TELEPHONE - PENNSYLVANIA
CAPITAL CITIES COMMUNICATIONS ABC INC
CAPITAL CITIES COMMUNICATIONS ABC INC
CARL COMPANY
CELLULAR OF UPSTATE NEW YORK
CENTRAL VERMONT PUBLIC SERVICE
CHANNEL 13 TELEVISION
CHASE MANHATTAN BANK
CITY UNIVERSITY OF NEW YORK
CNBC INC
COLUMBIA UNIVERSITY
COMDISCO DISASTER RECOVERY SERVICE
COMMUNITY HOME ENTERTAINMENT
COMSEARCH
CONNECTICUT BANK AND TRUST COMPANY
CONNECTICUT LIGHT AND POWER COMPANY
CONNECTICUT PUBLIC BROADCASTING INC
CONSOLIDATED EDISON COMPANY OF NEW YORK
CONSOLIDATED SPECTRUM SERVICES
CORPORATE SATELLITE COMM INC
COUNTERPOINT COMMUNICATIONS, INC.

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