ORIGINAL

Posted

SOUTHMAYD SIMPSON & MILLER

P.O. Box 59711
Potomac, Maryland 20859
Telephone: (301) 417-0635
Telecopier: (301) 977-2362

1233 Twentieth Street, N.W.
Second Floor
Washington, D.C. 20036
Telephone: (202) 331-4100
Telecopier: (202) 331-4123

ORIGINAL

June 10, 1991

JUN 12 11 29 AM '91

AUDIO SERVICES DIVISION

RECEIVED

JUN 10 1991

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

Re: New (FM), Allentown, Pennsylvania
Beacon Broadcasting Corporation
BPED-900905ML

Dear Ms. Searcy;

On behalf of Beacon Broadcasting Corporation there is being re-tendered herewith, in triplicate, an FCC Form 340 application seeking a construction permit for a new noncommercial FM station on Channel 207A at Allentown, Pennsylvania.

The subject application was originally filed with the Commission on September 5, 1990. However, by letter dated May 10, 1991, the Chief, FM Branch, returned the application as unacceptable for filing (copy attached hereto as Appendix A) due to prohibited overlap to WRDV(FM), Warminster, Pennsylvania.

The subject application corrects the engineering defect that resulted in the return of the original application. The Applicant respectfully requests that the application, as modified, be accepted nunc pro tunc as of the original filing date and that the above-referenced file number continue to be assigned to the application. This request is fully consistent with the Commission policy enunciated in the Public Notice "Commission States Future Policy on Incomplete and Patently Defective AM and FM Construction Permit Applications", FCC 84-366 (released August 2, 1984). Good cause exists for such action inasmuch as the engineering defect has been remedied and the amended application is being filed within thirty (30) days of the date the original application was returned by the FM Branch.

Please contact the undersigned should you have any questions regarding this matter.

RECEIVED
JUN 12 1991
FM EXAMINERS

Very truly yours,

Jeffrey D. Southmayd

Appendix A
Beacon Broadcasting Corp.

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

10 MAY 1991

IN REPLY REFER TO:
8920-RPC

Mr. John P. Hentosh, M.D., President
Beacon Broadcasting Corporation
401 North 17th Street, Suite 205
Allentown, PA 18104

In re: New(FM), Allentown, PA
Beacon Broadcasting Corporation
BPED-900905ML

Dear Mr. Hentosh:

This refers to the above-captioned application for a new FM non-commercial educational station to serve Allentown, Pennsylvania.

An engineering study of your application based upon 47 C.F.R. § 73.509 has revealed that your proposed operation would cause prohibited overlap to WRDV(FM), Warminster, Pennsylvania (File No. BPED-880422MA). A computer generated contour overlap study shows that your proposed 40dBu contour overlaps the 60 dBu protected contour of WRDV(FM) by as much as 0.73 km between the azimuths 312.0°T to 348.0°T (as referenced from WRDV-FM) resulting in interference that would be received by WRDV(FM). Consequently, we find that your proposal is in violation of 47 C.F.R. § 73.509.

Accordingly, in view of the foregoing, your application is unacceptable for filing pursuant to 47 C.F.R. § 73.3566(a) and IS HEREBY RETURNED.

Please be aware, however, that pursuant to the Commission's Public Notice entitled "Commission States Future Policy on Incomplete and Patently defective AM and FM Construction Permit Applications", FCC 84-366, released August 2, 1984, the Commission indicated that it would provide <u>one</u> opportunity to reinstate applications <u>nunc pro tunc</u> where the original application was returned and where a relatively minor curative amendment was filed within 30 days of the date of the return of the application. Any minor amendment filed by you pursuant to this policy to cure the above-cited defect and any other deficiencies contained in the application must be signed and submitted in

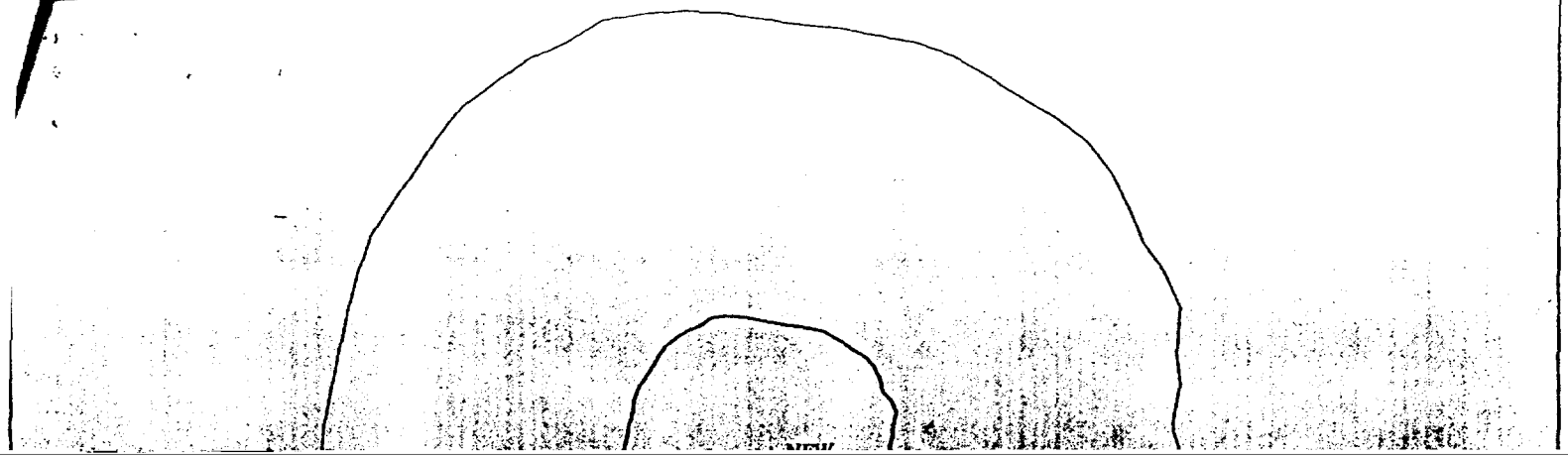
triplicate to the Secretary of the Commission in the same manner as the original application, and must contain an appropriate request for reinstatement. We note if the above-mentioned application was amended to specify a lower ERP of 0.135 kilowatts and all other parameters remained the same, the prohibited overlap would be eliminated. Please, include a copy of this letter with your petition for reconsideration to assist the staff in processing.

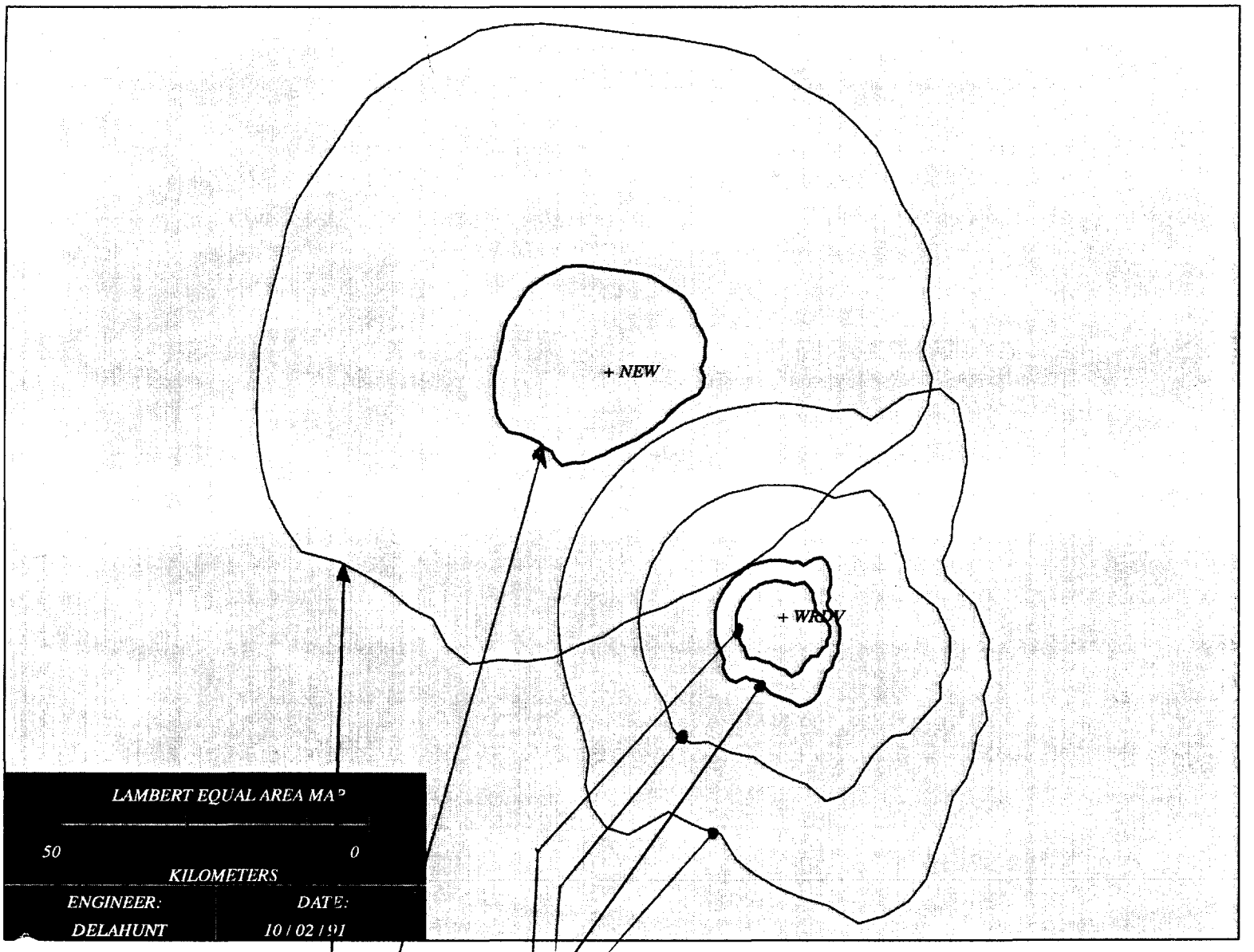
Sincerely,

Dennis Williams

Dennis Williams
Chief, FM Branch
Audio Services Division
Mass Media Bureau

Enclosure
cc: Jeffrey D. Southmayd
Lalin Fonseka





THE FOLLOWING IS A LIST OF THE DATA WHICH APPEARS ON THE ABOVE MAP
BOTTOM LATITUDE: 39.74 TOP LATITUDE: 41.11 LEFT LONGITUDE: -76.31 RIGHT LONGITUDE: -74.50
MAP: ENLARGED CONUS MAP PROJECTION: Lambert Equal-area CENTER LAT: 40.42 LONG: -75.40 GRID SPACING: 0.00
KILOMETERS / INCH = 24.96
PLOT MADE ON : 2 OCTOBER, 1991 8:58 HOURS

call	serv	application no.	contour		chan	erp	haat	rcamsl	coverage area	A1	A7
NEW	FM	BPED900905ML	60.0 dBu	(50,50)	207	0.135	245.0	396.0	839.5 sq km	0	0
NEW	FM	BPED900905ML	40.0 dBu	(50,10)	207	0.135	245.0	396.0	8635.8 sq km	0	0
WRDV	FM	BLED801215AB	60.0 dBu	(50,50)	207	0.200	27.0	109.0	168.2 sq km	0	39
WRDV	FM	BLED801215AB	40.0 dBu	(50,10)	207	0.200	27.0	109.0	1872.8 sq km	0	39
WRDV	FM	BPED880422MA	60.0 dBu	(50,50)	207	1.000	36.0	116.0	372.4 sq km	0	32
WRDV	FM	BPED880422MA	40.0 dBu	(50,10)	207	1.000	36.0	116.0	4605.4 sq km	0	32

OK
NO OVERLAP

A1 - Number of radials where free space equation was used for field strength calculations.
A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.
A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

BLED801215AB LIC WRDV
Warminster PA US
207A 89.3 MHz Updated 880511
Bux-Mont Educational Radio Assoc
N Lat 40-12-19 W Lon 75- 6-27

	ERP	HAAT	RCAMSL
H	0.200 kw	27. m	109. m
V	0.200 kw	27. m	109. m

DA:N Make: Mod:
Rotation: degrees
Is it 73.215: N

BPED900905ML APP NEW
Allentown PA US
207A 89.3 MHz Updated 910624
Beacon Broadcasting Corporation
N Lat 40-33-54 W Lon 75-26-26

	ERP	HAAT	RCAMSL
H	0.135 kw	245. m	396. m
V	0.130 kw	245. m	396. m

DA:Y Make:ODD Mod:ODD900905ML
Rotation: 0 degrees
Is it 73.215: N

WRDV PROTECTED 60.00 dBu				900905ML INTERFERING 40.00 dBu					
AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	ACTUAL (dBu)	IX (km)
0.0	0.200	12.0	6.7	139.63	0.028	237.2	43.6	37.82	
10.0	0.200	15.8	6.7	138.57	0.028	237.1	44.5	37.51	
20.0	0.200	25.0	6.7	137.75	0.028	237.0	45.4	37.13	
30.0	0.200	35.0	7.2	136.62	0.029	236.5	46.4	36.78	
40.0	0.200	41.5	7.8	135.52	0.029	235.8	47.5	36.32	
50.0	0.200	37.7	7.5	135.96	0.029	236.1	48.9	35.77	
60.0	0.200	32.4	6.9	136.76	0.029	236.6	50.0	35.28	
70.0	0.200	28.2	6.7	137.42	0.028	236.9	51.1	34.83	
80.0	0.200	35.3	7.2	137.54	0.028	236.9	52.4	34.29	
90.0	0.200	44.6	8.2	137.59	0.028	236.9	54.1	33.62	
100.0	0.200	48.9	8.6	138.39	0.028	237.1	55.4	33.06	
110.0	0.200	48.6	8.6	139.68	0.028	237.1	56.2	32.66	
120.0	0.200	49.4	8.7	141.02	0.028	236.9	56.9	32.35	
130.0	0.200	48.0	8.5	142.50	0.028	236.1	57.2	32.20	
140.0	0.200	42.3	7.9	144.02	0.028	234.7	56.8	32.30	
150.0	0.200	46.9	8.4	145.44	0.028	233.2	57.3	32.05	
160.0	0.200	54.1	9.1	147.05	0.028	231.6	57.8	31.80	
170.0	0.200	43.3	8.0	148.17	0.028	230.6	56.3	32.35	
180.0	0.200	36.3	7.3	149.08	0.028	229.6	55.1	32.80	
190.0	0.200	28.9	6.7	149.75	0.028	228.7	53.9	33.25	
200.0	0.200	18.6	6.7	150.65	0.028	227.6	53.1	33.58	
210.0	0.200	21.5	6.7	151.40	0.028	226.7	52.1	33.97	
220.0	0.200	36.4	7.3	152.62	0.029	225.3	51.3	34.31	
230.0	0.200	31.8	6.9	152.58	0.029	225.4	50.0	34.84	
240.0	0.200	24.0	6.7	152.56	0.029	225.4	48.8	35.32	
250.0	0.200	21.0	6.7	152.51	0.029	225.5	47.6	35.79	
260.0	0.200	18.3	6.7	152.20	0.028	225.8	46.5	36.25	
270.0	0.200	8.7	6.7	151.64	0.028	226.5	45.4	36.69	

BPED900905ML APP NEW
Allentown PA US
207A 89.3 MHz Updated 910624
Beacon Broadcasting Corporation
N Lat 40-33-54 W Lon 75-26-26

	ERP	HAAT	RCAMSL
H	0.135 kw	245. m	396. m
V	0.130 kw	245. m	396. m

DA:Y Make:ODD Mod:ODD900905ML
Rotation: 0 degrees
Is it 73.215: N

BPED880422MA APP WRDV
Warminster PA US
207A 89.3 MHz Updated 910412
Bux-Mont Educational Radio Assoc
N Lat 40-12-19 W Lon 75- 6-27

	ERP	HAAT	RCAMSL
H	0.100 kw	36. m	116. m
V	1.000 kw	36. m	116. m

DA:Y Make:ODD Mod:ODD880422MA
Rotation: 0 degrees
Is it 73.215: N

900905ML PROTECTED 60.00 dBu				WRDV INTERFERING 40.00 dBu					
AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	ACTUAL (dBu)	IX (km)
0.0	0.112	276.0	17.7	334.10	1.000	17.9	64.2	32.97	
10.0	0.109	275.3	17.6	336.45	1.000	18.3	62.6	33.29	
20.0	0.111	283.1	18.0	338.93	1.000	20.5	61.0	33.61	
30.0	0.117	278.1	18.0	341.09	1.000	22.2	58.8	34.05	
40.0	0.126	276.5	18.3	343.21	1.000	22.6	56.4	34.55	
50.0	0.133	271.2	18.4	344.86	1.000	22.9	53.7	35.15	
60.0	0.135	248.1	17.6	345.26	1.000	23.0	50.5	35.84	
70.0	0.130	260.1	17.9	346.23	1.000	23.2	47.5	36.49	
80.0	0.118	241.3	16.7	344.83	1.000	22.8	44.4	37.24	
90.0	0.100	254.9	16.5	343.74	1.000	22.5	41.7	38.02	
100.0	0.077	263.5	15.6	341.12	1.000	22.2	39.4	38.72	
110.0	0.055	224.3	13.3	336.13	1.000	18.3	38.8	38.92	
120.0	0.040	221.2	12.2	332.62	1.000	17.9	38.2	39.13	
130.0	0.032	228.0	11.7	329.45	1.000	17.2	37.7	39.28	
140.0	0.028	237.1	11.6	326.37	1.000	19.0	37.4	39.38	
150.0	0.028	228.4	11.4	323.32	1.000	21.5	37.6	39.30	
160.0	0.032	215.8	11.4	320.36	1.000	22.3	38.0	39.17	
170.0	0.040	203.7	11.8	317.43	1.000	20.2	38.6	38.97	
180.0	0.055	206.0	12.7	314.12	1.000	19.5	39.3	38.77	
190.0	0.077	213.3	14.0	310.59	1.000	18.5	40.3	38.43	
200.0	0.100	210.9	14.9	308.07	1.000	17.0	42.3	37.84	
210.0	0.118	208.5	15.5	306.59	1.000	16.3	44.7	37.16	

BPED880422MA APP WRDV
Warminster PA US
207A 89.3 MHz Updated 910412
Bux-Mont Educational Radio Assoc
N Lat 40-12-19 W Lon 75- 6-27

	ERP	HAAT	RCAMSL
H	0.100 kw	36. m	116. m
V	1.000 kw	36. m	116. m

DA:Y Make:ODD Mod:ODD880422MA
Rotation: 0 degrees
Is it 73.215: N

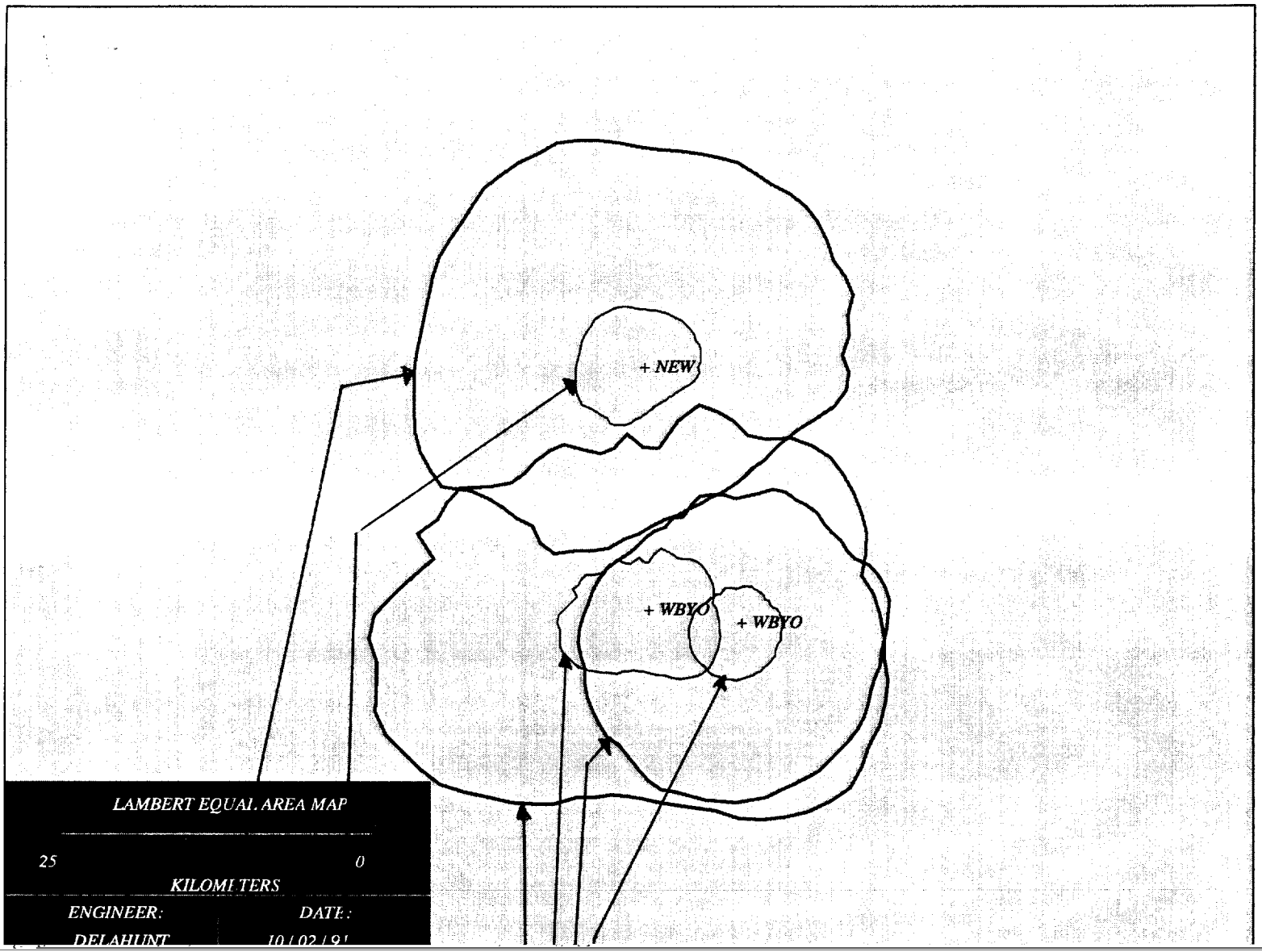
BPED900905ML APP NEW
Allentown PA US
207A 89.3 MHz Updated 910624
Beacon Broadcasting Corporation
N Lat 40-33-54 W Lon 75-26-24

	ERP	HAAT	RCAMSL
H	0.135 kw	245. m	396. m
V	0.130 kw	245. m	396. m

DA:Y Make:ODD Mod:ODD900905ML
Rotation: 0 degrees
Is it 73.215: N

WRDV PROTECTED 60.00 dBu				900905ML INTERFERING 40.00 dBu					
AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	ACTUAL (dBu)	IX (km)
0.0	1.000	19.0	10.2	136.52	0.029	236.5	41.0	39.09	
10.0	1.000	22.8	10.2	134.93	0.029	235.2	42.4	38.52	
20.0	1.000	32.0	10.5	133.42	0.030	233.1	43.8	37.92	
30.0	1.000	42.0	11.9	130.92	0.031	229.1	45.2	37.32	
40.0	1.000	48.5	12.8	129.57	0.032	227.6	47.3	36.52	
50.0	0.757	44.7	11.5	131.29	0.031	229.6	49.3	35.66	
60.0	0.504	39.4	9.7	133.67	0.030	233.5	50.7	35.06	
70.0	0.384	35.2	8.6	135.51	0.029	235.8	51.8	34.58	
80.0	0.336	42.3	9.1	135.81	0.029	236.0	53.5	33.92	
90.0	0.303	51.6	9.9	136.26	0.029	236.3	55.2	33.19	
100.0	0.303	55.9	10.3	137.32	0.028	236.8	56.7	32.57	
110.0	0.336	55.6	10.6	138.71	0.028	237.2	57.9	32.04	
120.0	0.384	56.4	11.0	140.21	0.028	237.1	59.1	31.52	
130.0	0.504	55.0	11.6	141.86	0.028	236.5	60.2	31.07	
140.0	0.757	49.3	12.1	143.73	0.028	235.0	61.0	30.72	
150.0	1.000	53.9	13.5	145.80	0.028	232.8	62.4	30.12	
160.0	1.000	61.1	14.3	148.09	0.028	230.6	62.8	29.87	
170.0	1.000	50.3	13.0	149.89	0.028	228.6	61.0	30.47	
180.0	1.000	43.3	12.1	151.42	0.028	226.7	59.2	31.16	
190.0	1.000	35.9	11.0	152.53	0.029	225.5	57.3	31.94	
200.0	1.000	25.6	10.2	153.35	0.029	224.3	55.4	32.68	
210.0	1.000	28.5	10.2	154.52	0.029	222.4	54.0	33.22	
220.0	1.000	43.4	12.1	157.33	0.031	218.6	53.3	33.50	
230.0	1.000	38.8	11.4	157.54	0.031	218.3	51.2	34.36	
240.0	1.000	31.0	10.3	156.75	0.030	219.3	49.1	35.19	
250.0	1.000	28.0	10.2	156.66	0.030	219.4	47.3	35.90	
260.0	1.000	25.3	10.2	156.35	0.030	219.7	45.6	36.62	
270.0	1.000	15.7	10.2	155.62	0.030	220.7	43.9	37.33	
280.0	1.000	10.5	10.2	154.45	0.029	222.5	42.4	38.02	
290.0	1.000	12.0	10.2	152.85	0.029	225.1	41.0	38.63	
300.0	1.000	15.0	10.2	150.85	0.028	227.4	40.0	39.09	
310.0	1.000	18.2	10.2	148.52	0.028	230.2	39.2	39.50	
320.0	1.000	22.1	10.2	145.98	0.028	232.7	38.8	39.78	
330.0	1.000	17.2	10.2	143.37	0.028	235.3	38.8	39.88	
340.0	1.000	21.2	10.2	140.83	0.028	236.9	39.2	39.76	
350.0	1.000	21.5	10.2	138.51	0.028	237.1	40.0	39.50	
360.0	1.000	19.0	10.2	136.52	0.029	236.5	41.0	39.09	

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.


+ NEW
+ WBYO
+ WBYO
LAMBERT EQUAL AREA MAP
25
0
KILOMETERS
ENGINEER:
DATE:
DELAHUNT
10/02/91

BPED900905ML APP NEW
Allentown PA US
207A 89.3 MHz Updated 910o24
Beacon Broadcasting Corporation
N Lat 40-33-54 W Lon 75-26-26

	ERP	HAAT	RCAMSL
H	0.135 kw	245. m	396. m
V	0.130 kw	245. m	396. m

DA:Y Make:ODD Mod:ODD900905ML
Rotation: 0 degrees
Is it 73.215: N

BPED870514MN CP WBYO
Sellersville PA US
205A 88.9 MHz Updated 901128
Bux-Mont Educational Radio Assoc
N Lat 40-23- 2 W Lon 75-21- 2

	ERP	HAAT	RCAMSL
H	0.000 kw	0. m	274. m
V	0.100 kw	133. m	274. m

DA:N Make: Mod:
Rotation: degrees
Is it 73.215: N

900905ML PROTECTED 60.00 dBu				WBYO INTERFERING 80.00 dBu					
AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	ACTUAL (dBu)	IX (km)
0.0	0.112	276.0	17.7	348.68	0.100	108.2	38.6	39.01	
10.0	0.109	275.3	17.6	353.11	0.100	105.3	37.7	39.17	
20.0	0.111	283.1	18.0	357.77	0.100	101.8	37.0	39.20	
30.0	0.117	278.1	18.0	2.29	0.100	100.0	35.8	39.61	
40.0	0.126	276.5	18.3	6.99	0.100	106.5	34.4	40.79	
50.0	0.133	271.2	18.4	11.48	0.100	114.9	32.6	42.32	
60.0	0.135	248.1	17.6	14.83	0.100	121.1	29.9	44.15	
70.0	0.130	260.1	17.9	19.35	0.100	125.1	27.8	45.69	
80.0	0.118	241.3	16.7	21.12	0.100	123.4	24.7	47.67	
90.0	0.100	254.9	16.5	23.79	0.100	119.3	22.0	49.39	
100.0	0.077	263.5	15.6	24.11	0.100	118.8	19.1	51.64	
110.0	0.055	224.3	13.3	17.26	0.100	123.4	16.3	54.20	
120.0	0.040	221.2	12.2	12.07	0.100	116.5	14.3	55.47	
130.0	0.032	228.0	11.7	6.29	0.100	105.9	12.7	56.80	
140.0	0.028	237.1	11.6	359.12	0.100	100.2	11.3	58.41	
150.0	0.028	228.4	11.4	349.38	0.100	108.3	10.5	60.41	
160.0	0.032	215.8	11.4	338.49	0.100	96.5	10.1	60.08	
170.0	0.040	203.7	11.8	326.91	0.100	92.8	10.2	59.56	
180.0	0.055	206.0	12.7	314.25	0.100	97.2	10.6	59.22	
190.0	0.077	213.3	14.0	302.15	0.100	104.6	11.9	57.84	
200.0	0.100	210.9	14.9	295.79	0.100	117.0	14.1	55.75	
210.0	0.118	208.5	15.5	293.70	0.100	119.4	16.8	53.57	
220.0	0.130	184.7	15.0	296.76	0.100	115.0	19.3	51.19	
230.0	0.135	192.4	15.4	297.84	0.100	112.8	22.0	48.93	
240.0	0.133	257.5	17.9	295.91	0.100	116.8	25.7	46.53	
250.0	0.126	275.3	18.3	299.29	0.100	110.1	28.4	44.23	
260.0	0.117	275.2	17.9	304.00	0.100	100.8	30.5	42.24	
270.0	0.111	273.7	17.6	308.61	0.100	99.1	32.3	41.15	
280.0	0.109	270.6	17.4	313.10	0.100	98.7	33.9	40.35	
290.0	0.112	271.3	17.6	317.34	0.100	94.6	35.6	39.20	
300.0	0.119	280.5	18.2	321.41	0.100	91.9	37.4	38.14	

BPED870514MN CP WBYO
Sellersville PA US
205A 88.9 MHz Updated 901128
Bux-Mont Educational Radio Assoc
N Lat 40-23- 2 W Lon 75-21- 2

	ERP	HAAT	RCAMSL
H	0.000 kw	0. m	274. m
V	0.100 kw	133. m	274. m

DA:N Make: Mod:
Rotation: degrees
Is it 73.215: N

BPED900905ML APP NEW
Allentown PA US
207A 89.3 MHz Updated 910624
Beacon Broadcasting Corporation
N Lat 40-33-54 W Lon 75-26-26

	ERP	HAAT	RCAMSL
H	0.135 kw	245. m	396. m
V	0.130 kw	245. m	396. m

DA:Y Make:ODD Mod:ODD900905ML
Rotation: 0 degrees
Is it 73.215: N

WBYO PROTECTED 60.00 dBu				900905ML INTERFERING 80.00 dBu					
AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	ACTUAL (dBu)	IX (km)
0.0	0.100	99.2	10.3	142.33	0.028	236.2	12.5	58.62	
10.0	0.100	111.2	10.8	134.87	0.029	235.1	13.4	57.50	
20.0	0.100	124.7	11.4	129.17	0.032	227.2	14.9	55.82	
30.0	0.100	117.9	11.1	128.48	0.033	226.8	16.8	54.46	
40.0	0.100	110.4	10.8	129.13	0.032	227.2	18.8	52.80	
50.0	0.100	110.6	10.8	129.63	0.032	227.6	20.7	51.24	
60.0	0.100	112.3	10.9	130.71	0.031	228.8	22.5	49.74	
70.0	0.100	136.8	12.0	130.36	0.032	228.4	24.8	48.07	
80.0	0.100	142.6	12.2	132.46	0.030	231.5	26.7	46.70	
90.0	0.100	135.7	11.9	135.84	0.029	236.0	28.0	45.72	
100.0	0.100	130.3	11.7	139.19	0.028	237.2	29.3	44.84	
110.0	0.100	129.8	11.7	142.38	0.028	236.1	30.4	44.08	
120.0	0.100	136.9	12.0	145.42	0.028	233.2	31.7	43.28	
130.0	0.100	147.8	12.5	148.59	0.028	230.1	33.0	42.52	
140.0	0.100	151.2	12.6	152.14	0.028	225.9	33.7	42.12	
150.0	0.100	159.8	13.0	155.75	0.030	220.5	34.4	41.76	
160.0	0.100	162.4	13.1	159.52	0.032	216.1	34.7	41.68	
170.0	0.100	171.7	13.5	163.38	0.035	212.0	34.9	41.77	
180.0	0.100	178.6	13.8	167.31	0.038	206.1	34.8	41.98	
190.0	0.100	177.1	13.7	171.13	0.042	202.8	34.1	42.62	
200.0	0.100	178.0	13.8	174.94	0.047	199.8	33.2	43.44	
210.0	0.100	178.9	13.8	178.69	0.053	203.4	32.1	44.66	
220.0	0.100	163.8	13.2	181.60	0.058	205.8	30.3	46.21	
230.0	0.100	165.5	13.3	185.04	0.065	203.5	28.8	47.53	
240.0	0.100	161.0	13.1	187.86	0.072	209.1	26.9	49.37	
250.0	0.100	152.6	12.7	189.95	0.077	213.2	24.9	51.26	
260.0	0.100	145.7	12.4	191.56	0.080	214.6	22.8	53.07	
270.0	0.100	143.6	12.3	193.01	0.083	214.1	20.7	54.84	
280.0	0.100	132.9	11.8	192.44	0.082	214.3	18.5	56.51	
290.0	0.100	124.9	11.4	190.93	0.079	214.5	16.5	58.00	
300.0	0.100	109.0	10.7	186.52	0.069	206.3	14.9	58.24	
310.0	0.100	97.1	10.2	180.74	0.056	206.8	13.6	58.94	
320.0	0.100	93.2	10.0	174.49	0.046	200.1	12.6	59.28	
330.0	0.100	93.5	10.0	167.15	0.038	206.3	11.8	59.81	
340.0	0.100	99.7	10.3	158.64	0.031	217.0	11.2	60.30	
350.0	0.100	107.9	10.7	149.06	0.028	229.6	11.2	60.32	
360.0	0.100	99.2	10.3	142.33	0.028	236.2	12.5	58.62	

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

BMPED910521MI APP WBYO
Sellersville PA US
205A 88.9 MHz Updated 910926
Bux-Mont Educational Radio Assoc
N Lat 40-23-36 W Lon 75-26-12

	ERP	HAAT	RCAMSL
H	0.000 kw	0. m	249. m
V	1.200 kw	104. m	249. m

DA: Y Make: ODD Mod: ODD910521MI
Rotation: degrees
Is it 73.215: N

BPED900905ML APP NEW
Allentown PA US
207A 89.3 MHz Updated 910624
Beacon Broadcasting Corporation
N Lat 40-33-54 W Lon 75-26-26

	ERP	HAAT	RCAMSL
H	0.135 kw	245. m	396. m
V	0.130 kw	245. m	396. m

DA: Y Make: ODD Mod: ODD900905ML
Rotation: 0 degrees
Is it 73.215: N

WBYO PROTECTED 60.00 dBu				900905ML INTERFERING 80.00 dBu					
AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	AZIMUTH (degrees)	ERP (kw)	HAAT (m)	DIST (km)	ACTUAL (dBu)	IX (km)
0.0	0.972	52.9	13.3	176.77	0.050	200.4	5.8	72.47	
10.0	1.200	66.1	15.5	141.59	0.028	236.6	4.9	73.57	
20.0	1.200	78.1	17.0	116.82	0.045	216.2	6.9	69.97	
30.0	1.200	72.8	16.3	120.16	0.040	221.6	9.8	63.95	
40.0	1.200	87.7	18.1	113.39	0.050	217.6	13.1	59.57	
50.0	1.200	98.1	19.3	113.88	0.049	217.0	16.5	56.03	
60.0	1.200	97.3	19.2	119.22	0.041	219.4	19.4	53.00	
70.0	1.200	93.4	18.8	125.16	0.036	228.3	22.0	50.68	
80.0	1.200	82.3	17.5	132.40	0.031	231.4	23.8	48.74	
90.0	1.200	92.2	18.6	135.16	0.029	235.4	26.9	46.47	
100.0	1.200	97.5	19.2	139.34	0.028	237.2	29.6	44.66	
110.0	1.200	108.3	20.3	143.29	0.028	235.4	32.5	42.97	
120.0	1.200	110.9	20.6	148.31	0.028	230.4	34.5	41.77	
130.0	1.200	119.5	21.3	153.09	0.029	224.7	36.7	40.64	
140.0	0.789	133.6	20.2	158.92	0.031	216.6	37.1	40.48	
150.0	0.499	142.6	18.6	164.68	0.036	210.2	36.5	41.02	
160.0	0.316	141.4	16.4	170.23	0.041	203.5	35.0	42.04	
170.0	0.200	153.8	15.2	175.02	0.047	199.7	34.2	42.96	
180.0	0.173	151.2	14.5	179.44	0.054	204.8	33.6	44.06	
190.0	0.160	155.8	14.4	183.74	0.063	203.3	33.4	44.75	
200.0	0.217	150.4	15.3	188.34	0.073	209.9	33.8	45.47	
210.0	0.300	156.4	17.2	193.65	0.085	214.1	34.9	45.75	
220.0	0.475	147.8	18.8	199.31	0.098	210.3	35.5	45.95	
230.0	0.751	144.8	20.8	205.66	0.110	225.3	36.0	46.83	
240.0	0.972	139.0	21.7	211.64	0.120	198.8	35.1	46.47	
250.0	1.200	134.4	22.4	217.77	0.127	185.7	33.8	46.80	
260.0	1.200	118.8	21.2	222.09	0.132	182.7	30.7	48.51	
270.0	1.200	117.2	21.1	227.41	0.134	188.2	28.2	50.36	
280.0	1.200	87.8	18.2	227.76	0.134	188.8	23.7	53.50	
290.0	1.200	93.9	18.8	233.95	0.134	204.1	21.5	55.84	
300.0	1.200	84.9	17.8	236.02	0.134	222.4	18.2	59.21	
310.0	1.200	67.9	15.7	232.59	0.134	198.1	14.8	60.93	
320.0	1.200	57.2	14.5	228.33	0.135	189.9	12.0	64.26	
330.0	1.200	60.2	14.8	228.72	0.135	190.6	9.4	68.60	
340.0	1.200	52.3	13.9	216.00	0.125	182.7	7.5	71.71	
350.0	0.972	53.5	13.3	198.39	0.096	209.5	6.3	74.47	
360.0	0.972	52.9	13.3	176.77	0.050	200.4	5.8	72.47	

A7 - Number of radials where a HAAT less than 50 meters was adjusted to 50 meters.

NONCOMMERCIAL EDUCATIONAL
FM BROADCAST NEW AND MAJOR CHANGE
REPORT FORM

THIS IS AN ( )A ( )B APPLICATION

APPLICANT: Beacon Broadcasting Corporation

STATION LOCATION: Allentown, PA

FILE NUMBER: BPED-900905ML

CALL LETTERS: New

REQUESTS: Channel/Class 207/A **Frequency** 89.3 **MHz**

ERP 0.150 **kW (H&V) HAAT** 245 **meters***

Tracking Information

Cut-Off Date: ___/___/___

ASB Referral ( )Yes ( )No

Initial Engineering Study: ___/___/___

Legal Study ___/___/___

Legal Review ___/___/___

Pending Check ___/___/___

NTIA Applicant ( )Yes ( )No

"A" COD_____ **"B" COD**_____

PLEADINGS FILED		AMENDMENTS FILED		
Date Filed	Type	Date Filed	Major/Minor	Type

Amendments/Pleadings filed after legal review (date)	Nature of Subsequently filed amendments/etc.	Disposition HDO	Returned	Other

DISMISSED 5/10/91

Filed

BAPS CHECK: Initial Check_____ (initials/date) Final Check_____ (initials/date)

COMMENTS:

RYR 6/10/91

EPD

* feet x 0.3048=meters meters x 3.2808=feet
miles x 1.609=kilometers kilometers x .621=miles

FM WORKSHEET/Nov. 1987

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

SECTION II, LEGAL QUALIFICATIONS

(For existing stations, complete this information if it is provided, otherwise complete only questions 13, 14, 15,16, 17, and 18.)

1. FORM OF NONPROFIT ORGANIZATION

____Government or Public Education Agency or Institution

____Private Nonprofit Corporation ____Other (specify)

	Yes	No
2. Do the applicant's organizational documents contain an educational purpose or objective? If no, give brief details in #18, below.	___	___
3. Has the applicant demonstrated that the proposed station will be used for the advancement of this educational purpose? If no, give brief details in #18, below.	___	___
4. Has the applicant certified that there are no restrictions to it presenting an educational program? If no, detail restrictions in #18, below.	___	___
5. Has the applicant certified compliance with Section 310 of the Communications Act?	___	___
6. (a) Is there a current or past criminal proceeding with respect to the applicant or any party thereto.	___	___
(b) If yes, is grant of the application precluded?	___	___

7. PRINCIPALS (Use identifying letters from this list in #8, below.)

	Name	Position	Governing Board?	% Ownership
(a)				
(b)				
(c)				
(d)				
(e)				
(f)				
(g)				
(h)				

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

8. MEDIA INTERESTS

(a) Ownership files checked? ____Yes ____No

(b)

Call Letters or Newspaper	AM/FM/TV	Location	Applicant or Party w/interest	Ren	C&C	Hearing
This station						

SECTION III, FINANCIAL INFORMATION

	Yes	No
9. Is the applicant dependent on an NTIA grant? (Please indicate response on cover sheet.)	___	___
10. Is the applicant dependent on another grant?	___	___
11. Financial certification OK?	___	___

SECTION IV, PROGRAMMING

12. Has satisfactory program statement been submitted?	___	___

SECTION V-B, FM BROADCAST ENGINEERING

13. (a) Main studio within principal community Contour?	___	___
(b) If no, has good cause been shown?	___	___
14. (a) Area_____sq.km. Population_____ (1 sq. mi.= 2.59 sq. km.)		
(b) Area & Populations Issue?	___	___

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

ENVIRONMENTAL IMPACT

15. (a) This proposal may have a significant environmental impact as defined by { 1.1307 because:

___located in an officially designated wilderness area
___located in an officially designated wildlife preserve
___will affect districts, sites, buildings, structures or objects significant in American history, architecture, archeology or culture that are listed in the National Register of Historic Places or are eligible for listing
___facilities to be located in a floodplain
___facilities whose construction will involve significant change in surface features (e.g., wetland fill, deforestation or water diversion)
___towers and/or supporting structures in residential neighborhoods equipped with high intensity white lights
___facility or operation would cause exposure to workers and/or general public to levels of radio frequency radiation in excess of recommended Radio Frequency Protection Guides
___Miscellaneous "Safeguard" objections raised which warrant preparation of an Environmental Assessment.

(b) This proposal is categorically excluded from environmental processing pursuant to 47 C.F.R. { 1.1306 because:

___Site location other then those listed in #1
___No high density lighting
___Radio frequency radiation nonexistent or within applicable safety standards

(c) Environmental Assessment provided:

___description of facilites (incl. supporting structures & appurtenance)
___description of site and surrounding area & uses
___if high intensity lighting used in residential area, impact lighting will have on residents and description of any measures (ex: shielding by louvers) to minimize or elimate
___zoning classification, if any, and any proceedings on environmental grounds
___evidence of approval obtained from local or federal land use authority
___construction (is/is not) source of controversy on environmental grounds in local community.
___environmental and other factors leading to selection
___nature & extent of unavoidable adverse environmental effects and any alternate sites or facilities reasonably considered

(d) Grant of this application (Will/Will Not) Have a significant effect on the quality of the human environment. Draft Environmental Impact Statement (Is/Is Not) attached.

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

SECTION VI, EQUAL OPPORTUNITY PROGRAM

16. (a) Does applicant propose to employ five or more fulltime employees? ___ ___

    (b) If yes, has a satisfactory EEO program been submitted? ___ ___

SECTION VII, CERTIFICATION

17. Local Notice certification? ___ ___

18. Is the application signed by an officer or director of the applicant. ___ ___

19. Waiver requests and/or reviewer's comments on discrepancies noted above:

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

ANSI/RF WORKSHEET 4/90

File No. BPED-900905ML
(or engineering amendment reference date)

	Yes	No
1. Does printout RC-AGL match that in Section V-B of application?	✓	
2. Is tower on top of building? If yes, RC-AGL must be entered as the height above roof level.		✓
3. Are there any AM stations within 0.5 km of the proposed site? If yes, see engineer.		✓
4. RF Radiation (Note: Check for all RF sources in area. Include appropriate condition, if necessary.)		
59.28 % of ANSI Limit (from printout)		
5. Does RF% on printout exceed 100%? If no, stop here; if yes, see engineer.		✓
(a) After irrelevant sources (other applications) on printout are deleted from consideration, does RF% exceed 100%?		
(b) If RF% exceeds 100%, is applicant's percentage greater than 1% of its own limit?		
(c) Is applicant using vertical pattern to comply?		
(d) Has applicant satisfactorily addressed RF issue (fence, remote area, etc.) in application?		
6. If 5(d) is yes, is condition needed for CGA? (Attach to condition page)		
7. RF Radiation-Final Percentage		
_____% of ANSI Limit (Recalculated)		
8. Based on percentage determined in #7, will this level cause exposure to workers and/or the general public in excess of the recommended RF Protection Guides?		

RpC 11/29/90
Initials Date

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

NONCOMMERCIAL EDUCATIONAL FM ENGINEERING SECTION

I. Engineering Checklist:

1. If antenna site is within 199 miles of Mexican border and if this is not a Class D application, channel is assigned in Table of Assignments or, if not, it is available for use in this city under the provisions of Sections 73.504(b) and 73.203(b). If using these sections, refer to Mexico re modification of Table B in the Allotment Plan in Annex II of the agreement. N/A

2. The proposed class is proper for the zone in which the transmitter site is located. yes

3. The proposed ERP meets minimum/maximum criteria set forth in Section 73.211. ERP/HAAT combination complies with interim policy (pending amendment of Fig. 3, Section 73.333) or, for shortspaced stations, 73.213(e). If within 200 miles of Canada, must comply with Canadian agreement; if between 200-250 miles of Canada, refer if complies with interim policy. If within 199 miles of Mexico, must comply with Mexican agreement. yes

4. If antenna site is within 199 miles of Mexico, and application is for Class D facilities, ERP is limited to 20 watts and HAAT is limited to 100 ft. N/A

5. The terrain profiles from 2 to 10 miles must be made in accordance with Section 73.313(d). The data shown on the profiles must be in reasonable agreement with the HAAT shown in Section V-B. yes

6. The coordinates and elevation of the site appear to be accurate. NO

7. The coordinates on Section V-G match those on Section V-B. N/A

8. The proposal meets pertinent spacing and/or interference requirements. Class D stations can receive interference. Interference received from Canadians based on 73.509. If ERP and HAAT not specified for Class D, use 10 W or 100 ft. no *

13. If applicant is proposing shared antenna, include following condition: N/A

Before program tests commence sufficient measurements shall be made and submitted to establish that the operation authorized in this construction permit is in accordance with the provisions of sections 73.317(a)(12) thru 73.317(a)(14) of the Commission's rules. All measurements must be made with stations ___, ___,____, and ____simultaneously utilizing the ____Type____antenna as authorized.

14. If the proposed FM antenna is to be mounted on an AM nondirectional tower, the following condition is included on the construction permit: N/A

During installation of the FM antenna, AM station ____shall determine operating power by the indirect method. Upon completion of the installation, antenna impedence measurements of the AM antenna shall be made and, BEFORE FM PROGRAM TESTS COMMENCE, the results submitted to the Commission along with a tower sketch of the installation in an application for station_____ to return to the direct method of power determination.

15. If the proposed FM antenna is to be mounted on an AM directional tower, the following condition is included on the construction permit: N/A

During installation of the FM antenna, AM station_____shall determine operating power by the indirect method and, if necessary, request temporary authority from the Commission in Washington to operate with parameters at variance in order to maintain monitoring point values within authorized limits. Upon completion of the installation, common point impedance measurements of the AM array shall be made and a partial proof of performance as defined by section 73.154(a) of the Commission's rules shall be conducted to establish that the AM array has not been adversely affected and, BEFORE FM PROGRAM TESTS COMMENCE, the results submitted to the Commission along with a tower sketch of the installation in an application for station _____to return to the direct method of power determination.

16. If the proposed FM operation involves construction of a tower near an existing AM nondirectional tower, the following condition is included on the construction permit: N/A

Prior to construction of the FM tower authorized herein, permittee shall notify AM station_____so that that station may determine operating power by the indirect method. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse affects upon the radiation pattern of the aforementioned AM station. Subsequent to construction of the FM tower and installation of all appurtenances thereon, antenna impedance measurements of the AM antenna shall be made and sufficient field strength measurements, obtained at at least 10 locations along each of eight equally spaced radials, shall be made to establish that the AM radiation pattern is essentially omnidirectional and, BEFORE FM PROGRAM TESTS COMMENCE, the results submitted to the Commission in an application for the AM station to return to the direct method of power determination.

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.

17. If the proposed FM operation involves construction of a tower near an existing AM directional tower, the following condition is included on the construction permit: N/A

Prior to construction of the FM tower authorized herein, permittee shall notify AM station ____ so that, if necessary, the AM station may determine operating power by the indirect method and request temporary authority from the Commission in Washington to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Permittee shall be responsible for the installation and continued maintenance od detuning apparatus necessary to prevent adverse affects upon the radiation pattern of the aforementioned AM station. Both prior to construction of the FM tower and subsequent to the installation of all appurtenances thereon, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected and, BEFORE FM PROGRAM TESTS COMMENCE, the results submitted to the Commission and to the AM station.

18. If signal greater than 10 mV/m (80dBu) (F(50,10) curves) would occur over a Commission monitoring station, prepare memo to FOB. no

19. Proposal complies with Section 73.1030 (National Radio Astronomy Observatory and Table Mountain Radio Receiving Zone). yes

20. Check for compliance with Section 73.316(e) ✓

21. If the proposed operation is in the non-reserved band and would receive new or increased interference from a Class D (secondary) station, begin taking action to have the Class D (Secondary) station move. ____

22. Calculation of location of contours must use ERP and HAAT in the desired direction. yes

23. Can't use measurements to show location of contours, only coverage of a community. N/A

24. Use of terrain roughness suspended; use only as a supplemental showing if it gives reasonable results. N/A

25. If directional, must comply with Section 73.316(c) and (d). ERP on CP is maximum in any direction on horizontal plane. Put DA conditions on CP. yes. *

26. For directional antennas, the vertical radiation must be no greater than the horizontal radiation at any azimuth. ✓

27. ERP and HAAT values have been rounded per Section 73.212. Do not round Radiation Center Above Mean Sea Level or Above Ground. yes

28. If an antenna with beam tilt is proposed, the allocation studies have been made with the horizontal plane ERP, but both the horizontal plane ERP and maximum ERP are specified on the CP. For example:

    99 kW (100 kW, max) (Horizontal)
    99 kW (100 kW, max) (Vertical)

29. If a copending AM application is involved, include condition saying FM CP does not authorize any change in AM operation. No

30. If a grant of this application is contingent upon grant of another application, include appropriate condition. ____

31. If the Canadian concurrence is subject to the U.S. not objecting to specified Canadian operations, a suitable condition is included on the construction permit. N/A

Form BC-246 (page 5)
August 1982

* Attach DA conditions.

A7 - Number of radials where a HAAT less than 50 meters was adjusted to 50 meters.

32. Make sure 2 copies of V-G and associated exhibits are prepared for sending to ASB. ✓

33. If antenna site is within 250 miles of Canada, and not Class D, refer to Canada. N/A

34. If antenna site is within 20 miles of Canada, and for Class D, refer