

MINOR CHANGE APPLICATION TO MODIFY CONSTRUCTION PERMIT
BPFT20100111AAD, TRANSLATOR STATION W257EQ
CH257D, Logan, Ohio

February 2011

TECHNICAL STATEMENT

This technical statement and attached exhibits were prepared on behalf of Hardware Monkey ("Hardware"), licensee of FM translator station W257EQ, channel 257D. The applicant has received a construction permit (BPFT20100111AAD) to relocate W257EQ to another site approximately 7.7km from the currently licensed site in order to better serve the community of Logan, Ohio. The purpose of this application is to change the primary feed station to WLOH (AM), Lancaster, OH. and modify the proposed antenna.

There will be no change in the tower location, frequency, or AGL height of the proposed station. The only change from the facility already authorized will be the use of a Kathrein Scala CL-FM antenna.

Exhibit A shows the proposed antenna pattern from the Kathrein Scala CL-FM off-the-shelf antenna. The antenna will be oriented to 35 degrees True from the tower.

Exhibit B demonstrates that the proposed operation for W257EQ at the proposed coordinates will comply with all pertinent interference requirements to other stations.

Exhibit C demonstrates compliance with 74.1233(a)(1) of the Commission's rules requiring any minor change of a translator's facilities to continue to provide 1mV/m service to some portion of its previously authorized service area.

Exhibit D demonstrates that the two translators proposed to provide fill-in service for WLOH (AM) will not serve the same area (form 349, Section III, Question 14).

The antenna used will be a Kathrein Scala CL-FM directional array. While it is considered that this antenna's radiation characteristics provide better RFR performance than what was calculated below

using a single bay "ring stub" or dipole antenna with 250 watts horizontal and vertical at 12.4m AGL. This model was used for the purpose of this evaluation. The program "FM Model for Windows" produced by the OET was used to predict the maximum RF Radiation at ground level. It was determine that the maximum RFR would be $105\mu\text{W}/\text{cm}^2$. This level is well below the $200\mu\text{W}/\text{cm}^2$ maximum allowable exposure level. Therefore, the proposed W257EQ facility will be in compliance with FCC standards for radiofrequency electronic exposure guidelines.

Respectfully Submitted

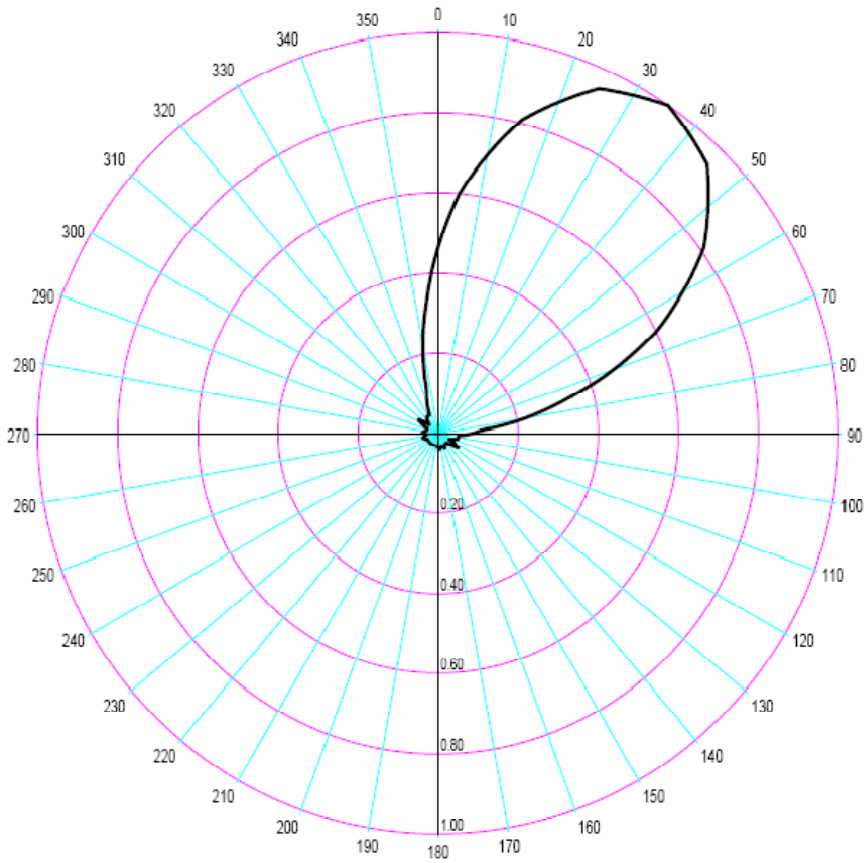
A handwritten signature in dark ink, appearing to read "Bertram Goldman", with a stylized, flowing script.

Bertram Goldman
Goldman Engineering Mgmt. LLC
5948 Charlestown Dr.
Dallas, TX. 75230

EXHIBIT A- Antenna Pattern

ComStudy

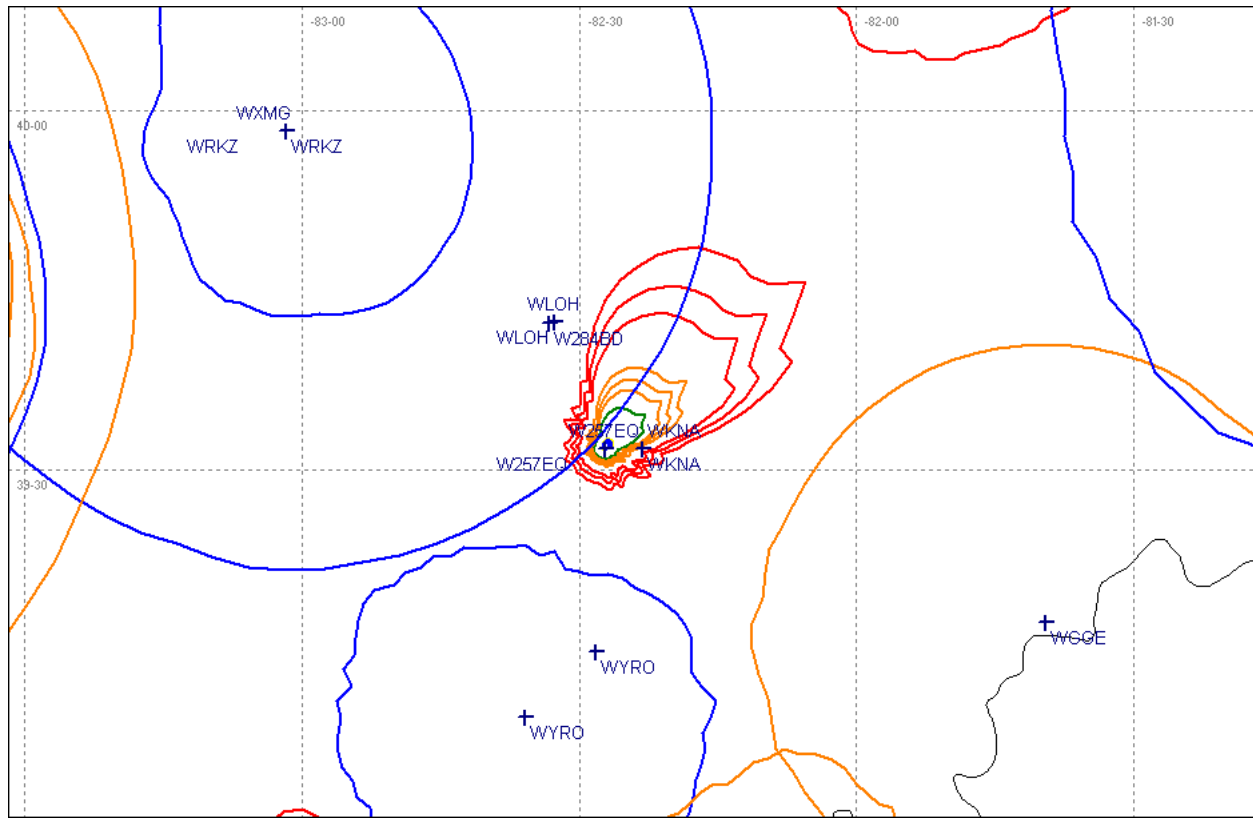
Horizontal Pattern



Azim	Rel.FS	ERP [W]	dBk	Azim	Rel.FS	ERP [W]	dBk	Azim	Rel.FS	ERP [W]	dBk	Azim	Rel.FS	ERP [W]	dBk
0.0	0.465	54.056	-12.672	90.0	0.080	1.600	-27.959	180.0	0.035	0.306	-35.139	270.0	0.035	0.306	-35.139
5.0	0.600	90.000	-10.458	95.0	0.050	0.625	-32.041	185.0	0.030	0.225	-36.478	275.0	0.040	0.400	-33.979
10.0	0.705	124.256	-9.057	100.0	0.050	0.625	-32.041	190.0	0.030	0.225	-36.478	280.0	0.035	0.306	-35.139
15.0	0.810	164.025	-7.851	105.0	0.050	0.625	-32.041	195.0	0.030	0.225	-36.478	285.0	0.030	0.225	-36.478
20.0	0.880	193.600	-7.131	110.0	0.040	0.400	-33.979	200.0	0.030	0.225	-36.478	290.0	0.030	0.225	-36.478
25.0	0.950	225.625	-6.466	115.0	0.030	0.225	-36.478	205.0	0.030	0.225	-36.478	295.0	0.030	0.225	-36.478
30.0	0.975	237.656	-6.241	120.0	0.045	0.506	-32.956	210.0	0.030	0.225	-36.478	300.0	0.045	0.506	-32.956
35.0	1.000	250.000	-6.021	125.0	0.060	0.900	-30.458	215.0	0.030	0.225	-36.478	305.0	0.060	0.900	-30.458
40.0	0.975	237.656	-6.241	130.0	0.045	0.506	-32.956	220.0	0.030	0.225	-36.478	310.0	0.045	0.506	-32.956
45.0	0.950	225.625	-6.466	135.0	0.030	0.225	-36.478	225.0	0.030	0.225	-36.478	315.0	0.030	0.225	-36.478
50.0	0.880	193.600	-7.131	140.0	0.030	0.225	-36.478	230.0	0.030	0.225	-36.478	320.0	0.040	0.400	-33.979
55.0	0.810	164.025	-7.851	145.0	0.030	0.225	-36.478	235.0	0.030	0.225	-36.478	325.0	0.050	0.625	-32.041
60.0	0.705	124.256	-9.057	150.0	0.035	0.306	-35.139	240.0	0.030	0.225	-36.478	330.0	0.050	0.625	-32.041
65.0	0.600	90.000	-10.458	155.0	0.040	0.400	-33.979	245.0	0.030	0.225	-36.478	335.0	0.050	0.625	-32.041
70.0	0.465	54.056	-12.672	160.0	0.035	0.306	-35.139	250.0	0.035	0.306	-35.139	340.0	0.080	1.600	-27.959
75.0	0.330	27.225	-15.650	165.0	0.030	0.225	-36.478	255.0	0.040	0.400	-33.979	345.0	0.110	3.025	-25.193
80.0	0.220	12.100	-19.172	170.0	0.035	0.306	-35.139	260.0	0.035	0.306	-35.139	350.0	0.220	12.100	-19.172
85.0	0.110	3.025	-25.193	175.0	0.040	0.400	-33.979	265.0	0.030	0.225	-36.478	355.0	0.330	27.225	-15.650

EXHIBIT B

Interference Study for W257EQ , Logan, OHIO



ComStudy 2.2 search of channel 257 (99.3 MHz Class D) at 39-31-44.0 N, 82-27-13.0 W.
AGL Height 12.4m, Maximum ERP (MERP) 250 watts.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
W257EQ	LOGAN	OH 257 D	7.67	0.00	108.8	-59.34 dB*
W257EQ	LOGAN	OH 257 D	0.00	0.00	90.0	-57.71 dB CP
WRKZ	COLUMBUS	OH 259 B	69.51	0.00	315.2	0.51 dB
WGGE	PARKERSBURG	WV 256 B1	73.66	0.00	111.2	10.87 dB
WYRO	MCARTHUR	OH 254 A	43.31	0.00	196.6	11.68 dB
WTNS-FM	COSHOCTON	OH 257 A	98.66	0.00	32.6	14.18 dB
WXMG	UPPER ARLINGTON	OH 255 A	69.51	0.00	315.2	18.95 dB
WTNS-FM	COSHOCTON	OH 257 A	98.66	0.00	32.6	19.14 dB
WHKO	DAYTON	OH 256 B	155.73	0.00	279.0	23.45 dB
WOVK	WHEELING	WV 254 B	156.62	0.00	66.3	25.36 dB
WBYG	POINT PLEASANT	WV 258 A	80.69	0.00	159.7	26.18 dB

*W257EQ operating as proposed is MX to the existing licensed operation and therefore qualifies as a minor change.

EXHIBIT C

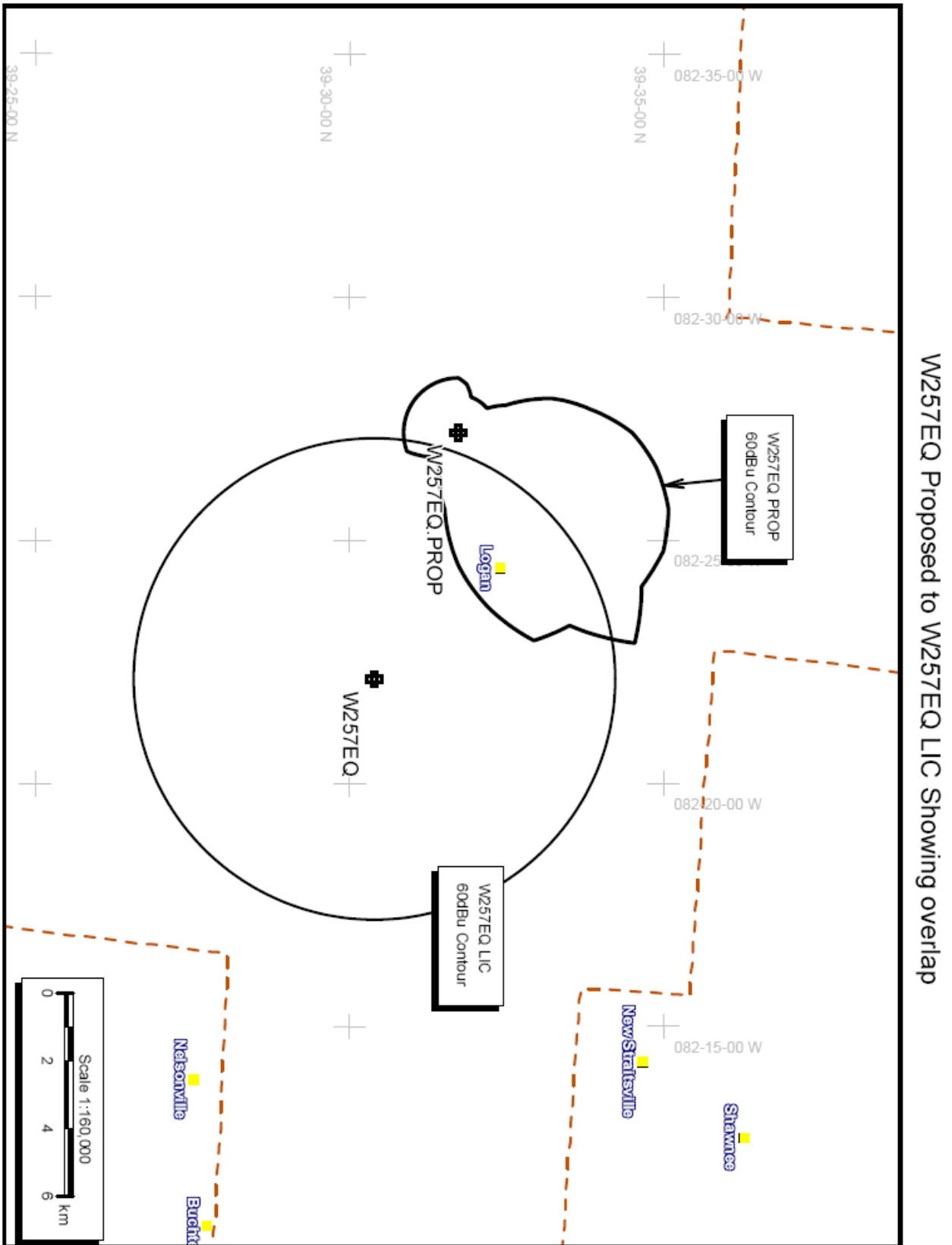


EXHIBIT D

W257EQ Proposed to W284BD CP Showing no overlap

