

Portsmouth New Hampshire Public Radio CH# 280D - 103.9 MHz, Pwr= 0.17 kW, HAAT=0.0 M, COR= 37 M Average Protected F(50-50)= 6.44 km Ave. F(50-10) 40 dBu= 21.5 54 dBu= 9.2 80 dBu= 2.1 100 dBu= .9											
DISPLAY DATES DATA 07-11-03 SEARCH 07-11-03											
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
280D Portsmouth	AP280	APP NH	C	0.0 180.0	0.00 BNPFT20030317JVI	43 04 29 70 45 46	0.170 36	37 21.5	7.0 New Hampshire Public Radio	-29.78*<	-28.45*<
282D Dover	W282AB	LIC NH	HN	329.7 149.7	17.40 BLFT19921028TA	43 12 35 70 52 16	0.013 118	125 0.9	6.8 New Hampshire Public Radio	10.71	9.72
281B Boston	WBCN	LIC MA	CN	198.0 18.0	84.97 BLH19911018KD	42 20 50 71 04 59	21.000 240	258 12.9	65.7 Hemisphere Broadcasting Co	0.82	6.39
279C North Conway	WPKQ	LIC NH	DEY	342.1 162.1	139.85 BLH19881228KA	44 16 14 71 18 15	22.500 1094	1938 9.2	90.2 Citadel Broadcasting Compa	2.29	40.39
279C North Conway	WPKQ.C	CP NH	EY	342.1 162.1	139.85 BPH19991109ABV	44 16 14 71 18 15	22.500 1094	1938 9.2	90.2 Citadel Broadcasting Compa	2.29	40.39
279C North Conway	ALLO	RSV NH		342.1 162.1	139.85 RM9153	44 16 14 71 18 15	100.000 -844	0 9.2	31.0	74.35	99.67
279D Gloucester	AP279	APP MA	C	169.9 349.9	50.80 BNPFT20030317DOP	42 37 28 70 39 15	0.027 89	92 10.2	7.0 Edgewater Broadcasting Inc	33.81	33.67
277B Boston	WODS	LIC MA	CN	204.0 24.0	93.24 BMLH19990126KA	42 18 27 71 13 27	16.000 294	315 1.6	67.4 Infinity Broadcasting Oper	80.98	24.27
277D Biddford	AP277	APP ME	C	23.2 203.2	52.57 BNPFT20030317JDZ	43 30 33 70 30 22	0.010 134	168 0.9	6.7 Radio Assist Ministry, Inc	45.91	44.94
277D Barnstead	AP277	APP NH	DH	306.9 126.9	54.64 BNPFT20030314AHT	43 22 04 71 18 10	0.000 97	303 0.9	0.0 New Hampshire Gospel Radio	48.20	53.73
282D Concord	W282AF	LIC NH	CN	286.6 106.6	57.41 BLFT19970421TE	43 13 10 71 26 25	0.003 108	323 0.9	4.4 Concord Bible Fellowship	50.85	52.06
283B Fitchburg	WXLO	LIC MA	CN	234.4 54.4	107.48 BMLH19910920KB	42 30 27 71 49 37	37.000 268	404 1.6	73.6 Citadel Broadcasting Compa	93.79	32.23
227D Andover	W227AM	LIC MA	C	218.5 38.5	59.71 BLFT20010525ADA	42 39 14 71 13 02	0.003 191	212 6.4	5.8 Greater Boston Radio, Inc.	3.2R	56.5M

\*\*\*Affixed to 'IN' or 'Out' values = site inside protected contour.  
ERP and HAAT are on direct line to and from reference station. "<" = Contour Overlap

## HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "**\* IN \***" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "**\* OUT \***" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates omni. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N".

## Proposed Translator v. W282AB

### AP280

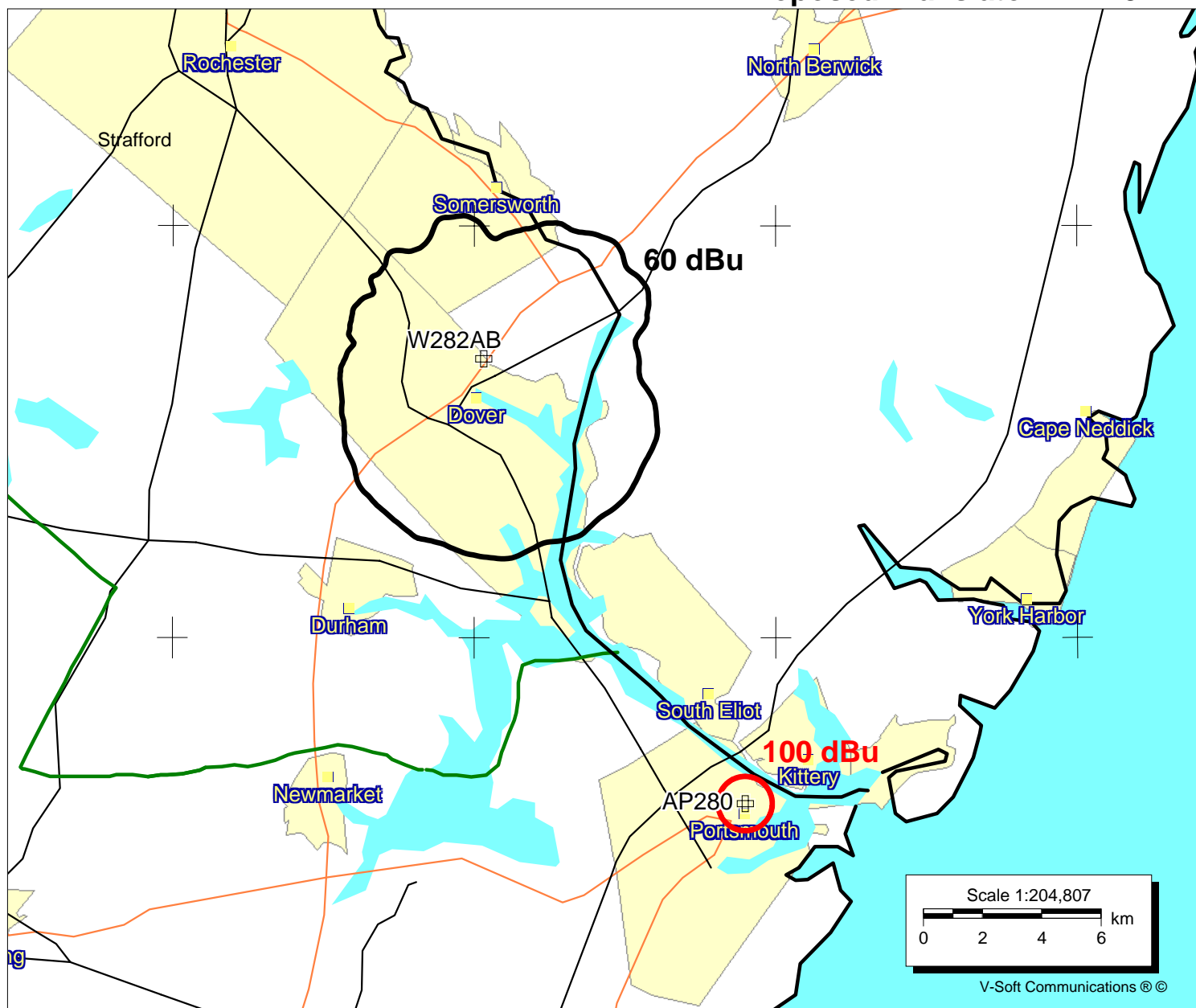
BNPFT20030317JVI  
 Latitude: 43-04-29 N  
 Longitude: 070-45-46 W  
 ERP: 0.17 kW  
 Channel: 280  
 Frequency: 103.9 MHz  
 AMSL Height: 37.0 m  
 Elevation: 7.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No

### W282AB

BLFT19921028TA  
 Latitude: 43-12-35 N  
 Longitude: 070-52-16 W  
 ERP: 0.013 kW  
 Channel: 282  
 Frequency: 104.3 MHz  
 AMSL Height: 125.0 m  
 Elevation: 38.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No

July 11, 2003

**V**  
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## Proposed Translator v. WBCN

### AP280

BNPFT20030317JVI  
Latitude: 43-04-29 N  
Longitude: 070-45-46 W  
ERP: 0.17 kW  
Channel: 280  
Frequency: 103.9 MHz  
AMSL Height: 37.0 m  
Elevation: 7.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No

### WBCN

BLH19911018KD  
Latitude: 42-20-50 N  
Longitude: 071-04-59 W  
ERP: 21.00 kW  
Channel: 281  
Frequency: 104.1 MHz  
AMSL Height: 258.0 m  
Elevation: 3.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No

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