

NEW FM TRANSLATOR APPLICATION
BANGOR BAPTIST CHURCH
NEW FM TRANSLATOR STATION
CH 263D - 100.5 MHZ - 0.013 KW (DA)
VASSALBORO, MAINE
March 2003

EXHIBIT A

Graham Brock, Inc. - Broadcast Technical Consultants
St. Simons Island, GA - Washington, DC

Interference study for Vassalboro Maine
Using proposed site as reference

REFERENCE		CH# 263D - 100.5 MHZ, Pwr= 0.013 kW, HAAT=99.8M, COR= 159 M								DISPLAY DATES	
44 29 23 N		Average Protected F(50-50)= 6.2 km								DATA	03-05-03
69 39 05 W		Ave. F(50-10) 40 dBu= 20.6 54 dBu= 8.8 80 dBu= 1.8 100 dBu= .3								SEARCH	03-07-03
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*	
263D Farmington	WUMFFM	LIC HN ME	297.0 117.0	44.34 BLED19850327LP	44 40 09 70 09 00	0.013	156 10.8	3.4 University Of Maine System	27.28	20.36	
262B Brewer	*WKITFM½	LIC CN ME	73.3 253.3	74.25 BLH19881103KD	44 40 39 68 45 15	16.000 289	334 78.7	66.9 The Zone Corporation	-7.25	1.69	
> Reference HAAT at 73.3½= 76.9 M, Pwr= 000.00094 kW, Pro. Dist. = 2.77 km, Int Dist. = 5.63 km											
260B Auburn	WMEKFM	LIC CN ME	220.9 40.9	78.90 BLH19980825KD	43 57 07 70 17 46	28.500 196	288 5.8	64.6 Radio Partners Of Maine, L	66.86	13.76	
264C3 Mexico	WTBM	LIC NCX ME	277.9 97.9	78.70 BLH20020611AAK	44 34 56 70 37 59	0.850 388	729 52.2	34.3 Mountain Valley Broadcasti	20.27	35.69	
261D Farmington	WUMFFM	CP HX ME	297.0 117.0	44.34 BPED20020524AAW	44 40 09 70 09 00	0.013	156 0.3	3.4 University Of Maine System	37.86	40.72	
265B1 Westbrook	WYNZ	LIC ZCN ME	208.8 28.8	101.15 BLH19940831KB	43 41 27 70 15 25	25.000 100	123 4.1	44.7 Saga Communica Of New Engl	90.86	56.06	

* = ERP and HAAT on direct line to and from reference station.
½ = Station meets FCC minimum distance spacing for its class.

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New FM Translator

Latitude: 44-29-23 N
Longitude: 069-39-05 W
ERP: 0.013 kW
Channel: 263D
AMSL Height: 159.4 m
Elevation: 127.4
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WMEK-FM

BLH-19980825KD
Latitude: 43-57-07 N
Longitude: 070-17-46 W
ERP: 28.50 kW
Channel: 260B
Frequency: 99.9 MHz
AMSL Height: 288.0 m
Elevation: 143.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WKIT-FM

BLH-19881103KD
Latitude: 44-40-39 N
Longitude: 068-45-15 W
ERP: 16.00 kW
Channel: 262B
Frequency: 100.3 MHz
AMSL Height: 334.0 m
Elevation: 212.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

New Translator 48 dBu (50/10)

New Translator 60 dBu (50/50)

New Translator 94 dBu (50/10)

WMEK-FM 54 dBu (50/50)

WKIT-FM 54 dBu (50/50)

New FM Translator

EXHIBIT A1
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CH 263D - 100.5 MHz - 0.013 kW
VASSALBORO, MAINE
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Scale 1:350,000

0 4 8 12 km