

Technical Statement in support of
FCC FORM 340
APPLICATION FOR CONSTRUCTION PERMIT FOR RESERVED CHANNEL
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION
(For a minor modification of a licensed facility)
WJMF 204A, Facility ID 7650

Introduction

This technical statement is in support of an application by Bryant University for a minor modification to licensed facility (Facility ID #7650).

The proposed changes are minor since there is no change in frequency or community of license.

This application was prepared using FCC 30-arc-second terrain data.

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FM Expansion Group, LLC
February 12, 2012

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Tech Box Data

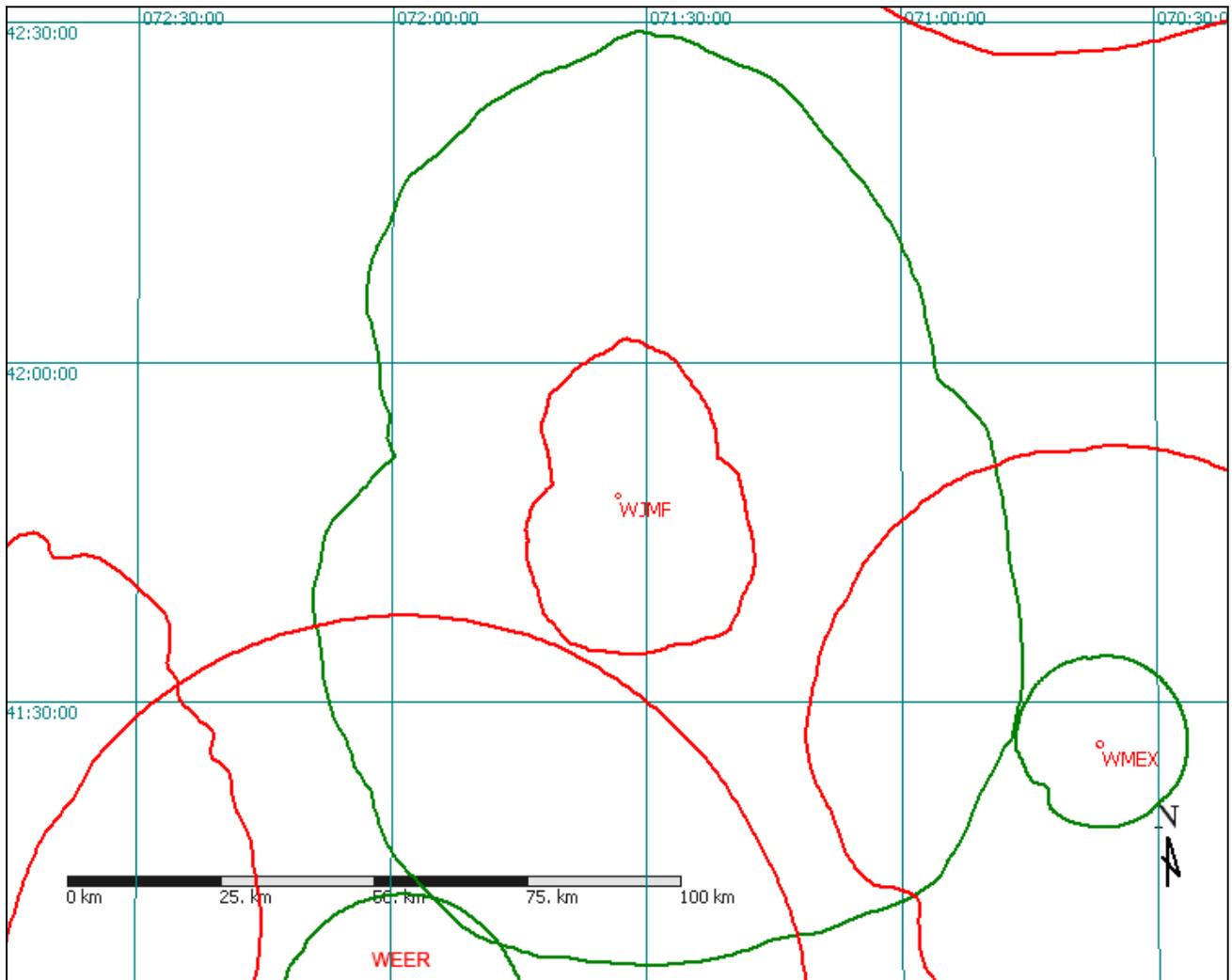
	'Azimuth'	'Field Value'
1) Channel 204	0	1
2) Class A	10	.988
3) 41° 48' 12" N 71° 33' 27" W	20	.908
4) Not Applicable	30	.737
5) ASRN 1021693	40	.596
6) 167 meters AGL	50	.480
7) 250 meters (H) 250 meters (V) AMSL	60	.385
8) 98 meters (H) 98 meters (V) AGL	70	.341
9) 163 meters (H) 163 meters (V) HAAT	80	.421
10) 1.5 kW (H) 1.5 kW (V)	90	.446
11) Not Applicable	100	.486
12) Rotation 0°	110	.599
a) Consult Table on the left for values >>>	120	.730
13) Yes. See Exhibit 13-14.	130	.814
14) Yes. See Exhibit 13-14.	140	1
15) Yes.	150	1
a) Checked. See Exhibit 15a – Contour Overlap Requirements	160	1
b) Checked. See Exhibit 15b – Spacing Requirements.	170	1
c) Not Checked.	180	1
d) Checked. See Exhibit 15d. – Contour Protection	190	1
e) Checked. See Exhibit 15e. – Television Channel 6 Protection	200	1
16) Not Applicable	210	.866
17) Yes.	220	.696
18) Yes. See Exhibit 18	230	.656
	240	.591
	250	.524
	260	.420
	270	.336
	280	.277
	290	.344
	300	.424
	310	.522
	320	.637
	330	.776
	340	.825
	350	.955
	118	.699
	119	.715
	121	.746
	122	.762

Exhibit 15a – Contour Overlap Requirements

Co-channel Contours vs. Authorized Facilities

The following contour study demonstrates that the proposed facility will not cause or receive predicted interference from any existing co-channel facility.

The apparent area of overlap to WEER falls entirely over water as demonstrated in the following illustration.



This map is color coded so that prohibited overlap is indicated by LIKE color contours overlapping.

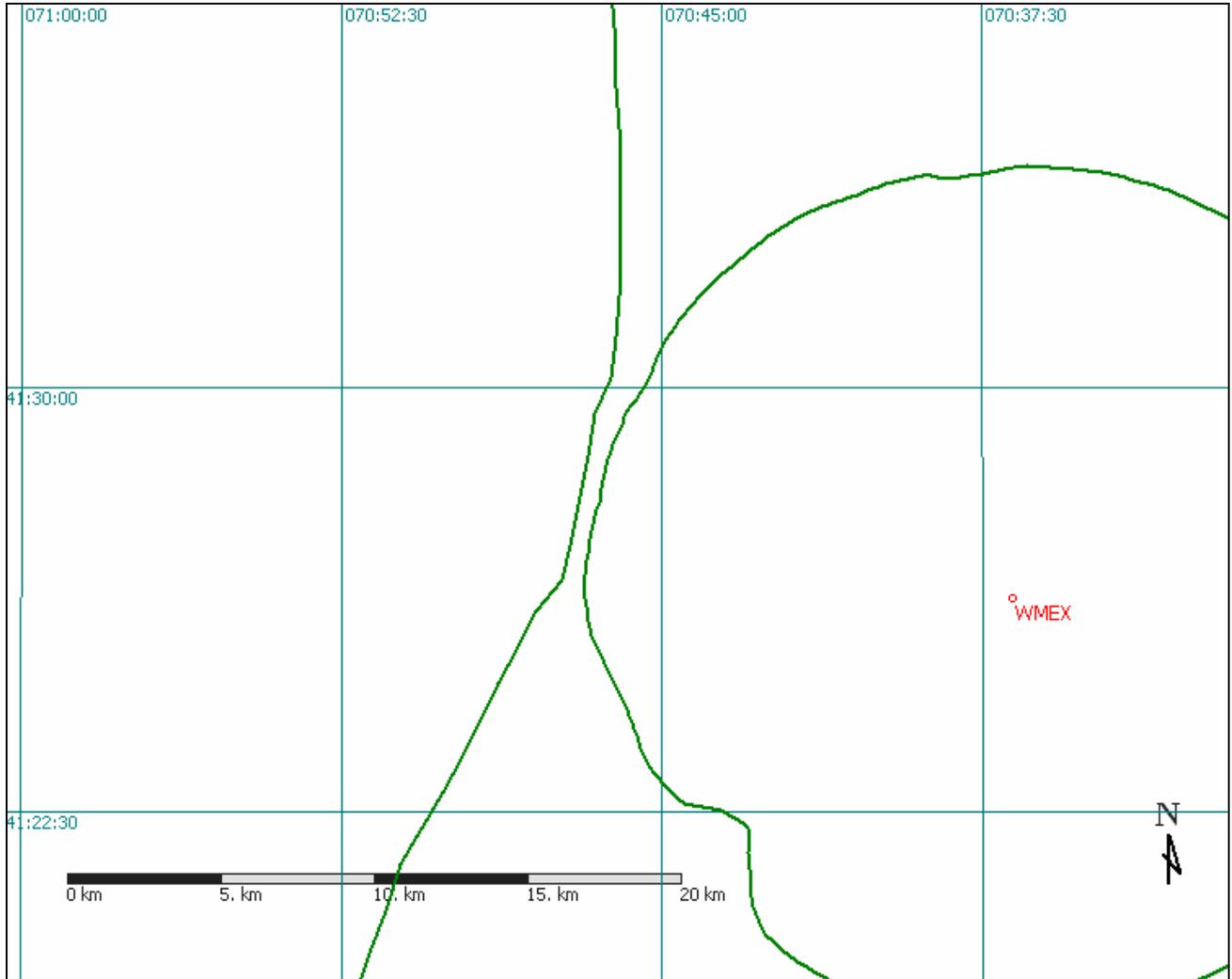
Co-channel Contours vs. WEER Protected

The following image demonstrates that the area of overlap between the proposed facility's interfering contour and the protected contour of WEER lies entirely over water.



Co-channel Contours vs. WMEX CP (Detail)

The following contour study demonstrates that the proposed facility will not cause predicted interference to the facility authorized by the construction permit for WMEX.



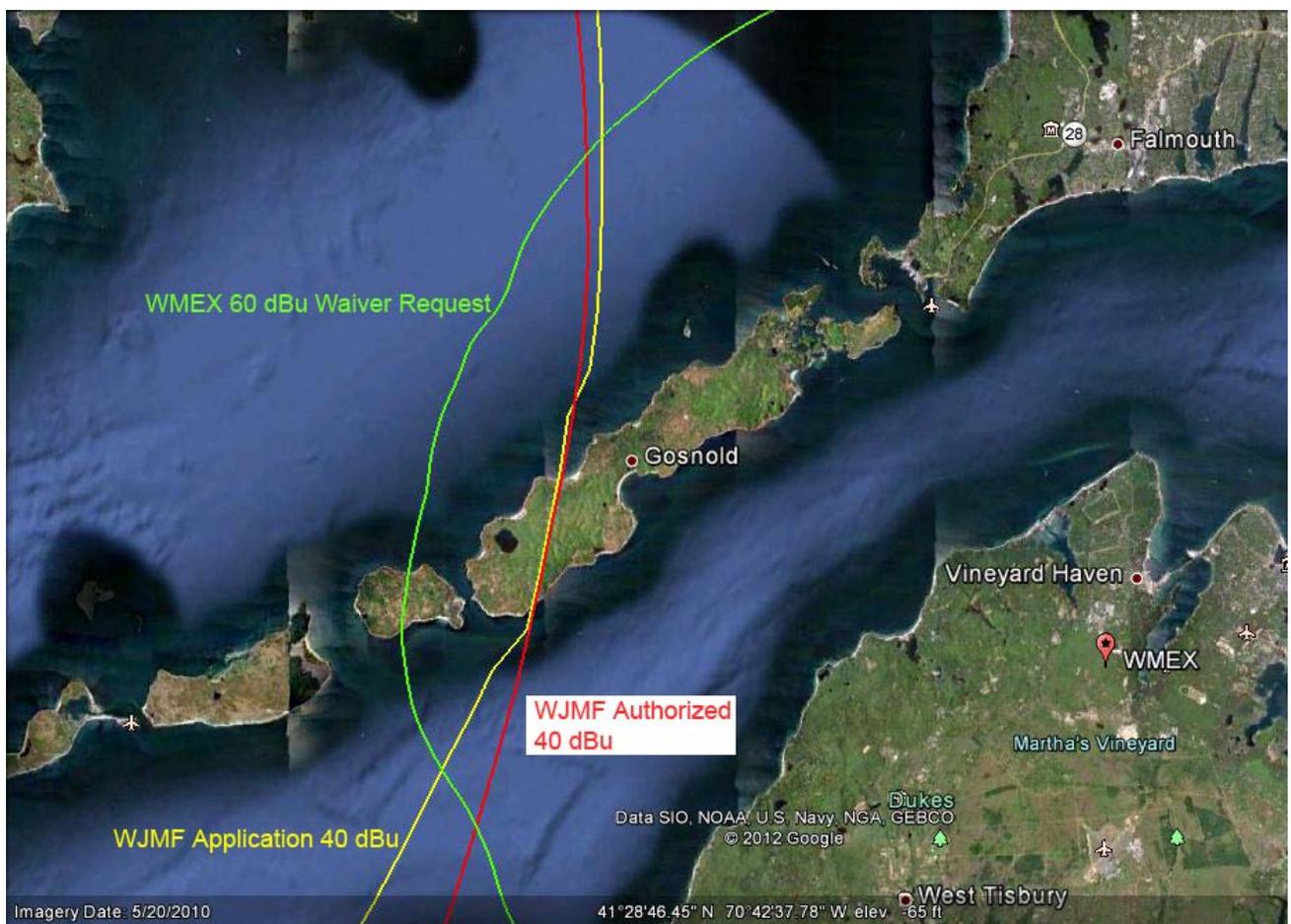
This map is color coded so that prohibited overlap is indicated by LIKE color contours overlapping.

Co-channel Contours vs. WMEX CP Application

On May 12, 2011, the permittee of WMEX filed an application to modify that facility (BMPED-20110512AAA). That application includes a waiver request proposing the Commission grant that application in spite of the fact that the proposed WMEX facility will receive interference from the currently authorized WJMF facilities in areas not covered by water.

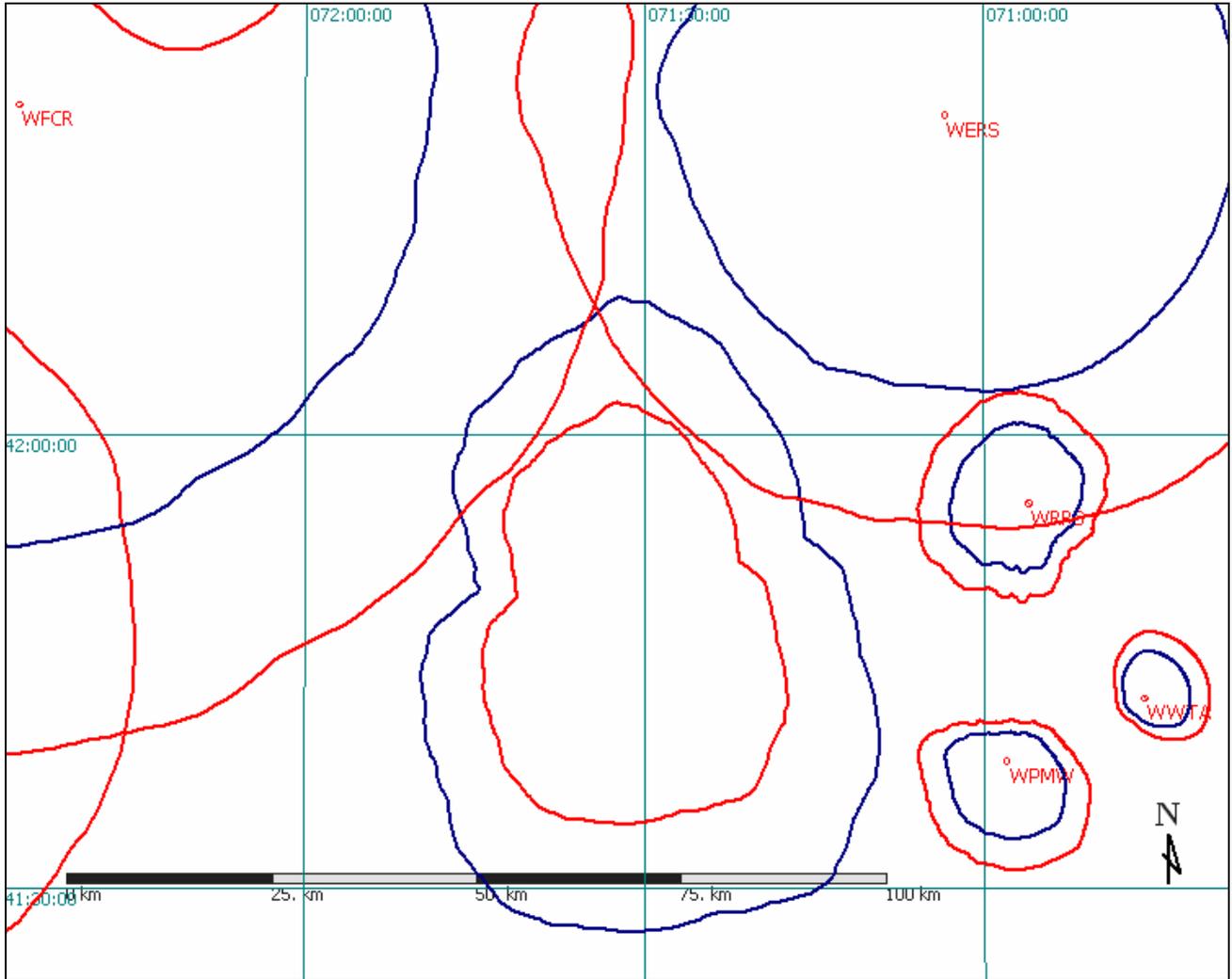
Bryant University – the licensee of WJMF – opposes the waiver request.

Nevertheless, the instant application is acceptable even if the WMEX waiver request is granted. As demonstrated below, the interfering contour of the proposed WJMF facility lies entirely within the currently authorized WJMF interfering contour over areas not covered by water.



First Adjacent Contours vs. Authorized and Proposed Facilities

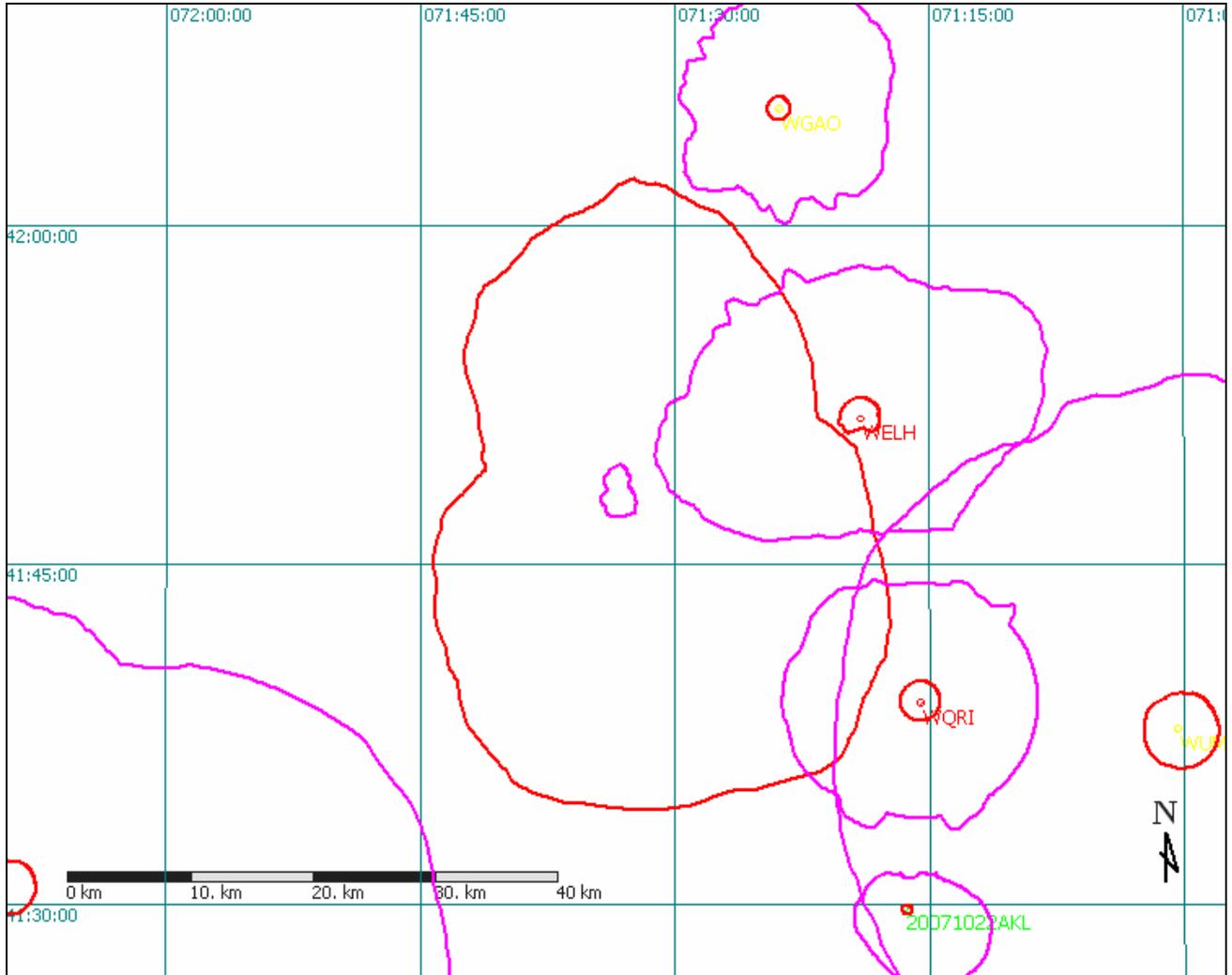
The following contour study demonstrates that the proposed facility will not receive or cause predicted interference from any existing or proposed first-adjacent facility:



This map is color coded so that prohibited overlap is indicated by LIKE color contours overlapping.

Second and Third Adjacent Contours vs. Authorized Facilities

The following contour study demonstrates that the proposed facility will not receive predicted interference from any existing or proposed second or third-adjacent facility.



This map is color coded so that prohibited overlap is indicated by LIKE color contours overlapping.

Exhibit 15b – Spacing Requirements

The proposed facility will operate on channel 204 and is not subject to 47 C.F.R. Section 73.207 except in regards to facilities operating on Channels 257 and 258. No stations operating on Channels 257 and 258 are sufficiently near the proposed facility to require further analysis.

Exhibit 15c – Grandfathered Short-Spaced

The requirements of 47 C.F.R. Section 213(a) are not applicable in the instant application.

Exhibit 15d – Contour Protection

The requirements of 47 C.F.R. Section 215 are not applicable in the instant application.

Exhibit 15e - Television Channel 6 Protection

The instant application complies with the requirements of 47 C.F.R. Section 73.525 by virtue of a lack of full-power television stations operating on Channel 6 that are sufficiently near the proposed facility to require further analysis

Exhibit 18

- a) Operation of this facility will not have a significant environmental impact. To the best knowledge of the Applicant:
 - 1. The existing structure is not located in an officially designated wilderness area or wildlife preserve, nor does it threaten the existence or habitat of endangered species.
 - 2. The proposed changes will not affect districts, sites, buildings, structures or objects significant in American history, architecture, engineering or culture that are listed in the National Register of Historic Places, or eligible for listing.
 - 3. The site is not located in a flood plain. Nothing is proposed that would require significant changes in surface features such as wetland fill, deforestation or water diversion.
 - 4. The structure will be marked in accordance with FAA requirements.
- b) The Applicant will cooperate with all site users, managers and owners with regard to the cessation of operation or the reduction of operating power, whenever it is necessary to comply with the FCC Regulations and Guidelines on Human Exposure to Non-Ionizing RF Radiation.
- c) The modeled contribution to the RF environment, 2-meters above the ground at the tower where the antenna will be mounted is less than 6.83 uW/cm², or 3.42%, of the maximum permitted value for general public exposure (0.684% of the occupational exposure level). This result was obtained using the FCC's FMModel program. Model settings were 1.5kW-vertical, 1.5kW-horizontal, 98-m high, Phillips-Dodge, 1 wavelength spacing, 1-bay.