

TECHNICAL EXHIBIT
NEW FM RADIO STATION
AMENDMENT TO
APPLICATION FOR FM CONSTRUCTION PERMIT
SHAWSVILLE, VIRGINIA

JULY 9, 2007

CH 273A 0.8 KW 276 M

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Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an amendment to the pending application for a new FM radio station assigned to Shawsville, Virginia.¹ This application seeks to modify the proposed transmitter site and associated parameters for this proposed facility.

Proposed Transmitter Location

A map showing the transmitter site location is provided in Figure 1. A sketch showing the proposed antenna and supporting structure is shown on Figure 2. As the overall tower height is less than 200 feet and not located near any public airports, an FAA *Determination of No Aeronautical Hazard* is not required.

¹ See FCC File Number: BPH-19971022MC.

Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station would extend radially 1 kilometer from the transmitting site. No interference is expected as the proposed transmitter site is located in a rural area. However, the applicant recognizes its responsibility to resolve complaints of interference, including blanketing and receiver-induced interference as required by Sections 73.315(b), 73.316(e) and 73.318.

Coverage Contours

The predicted coverage contours for the proposed operation were calculated in accordance with the provisions of Section 73.313. In accordance with current FCC practice, the distances to the contours were calculated without consideration given to terrain roughness correction factors.

The average terrain elevations from 3 to 16 kilometers along eight radials evenly spaced at 45-degree intervals were obtained from a N.G.D.C. 30-second terrain database. The terrain elevations were then used in combination with the effective radiated power for determining the distances to coverage contours.

As can be calculated using the map, the FCC predicted 70 dBu coverage contour entirely encompasses Shawsville, Virginia.

Allocation Study

Figure 4 is an allocation study for channel 273A at the proposed site. The figure contains a tabulation of actual and required separation distances from other pertinent stations and allotments. The proposed site meets the FCC's minimum separation requirements, specified in Section 73.207(b) of the Commission's Rules, to all assignments and stations.

Radiofrequency Electromagnetic Field Exposure Analysis

The proposed facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, *Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*.² The power density at the base of the tower was calculated using the appropriate procedure contained in Section 2, Supplement A, *Additional Information for Radio and Television Broadcast Stations*, of the Bulletin.

For the calculation, a combined horizontal and vertical polarized ERP of 1.6 kilowatts is employed with a radiation center of 50 meters above ground level. A downward relative field value of 0.5 was assumed. It is calculated that the power density will not exceed 0.006 mW/cm² at ground level. This is less than five percent of the Commission's guideline value for an uncontrolled environment for a FM radio station.³ No other emitters are proposed for this structure.

² OET Bulletin 65, Second Edition 97-01, August, 1997.

³ The FCC maximum guideline for a FM broadcast station in an uncontrolled environment is 0.2 mW/cm².

Access to the transmitting site is restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

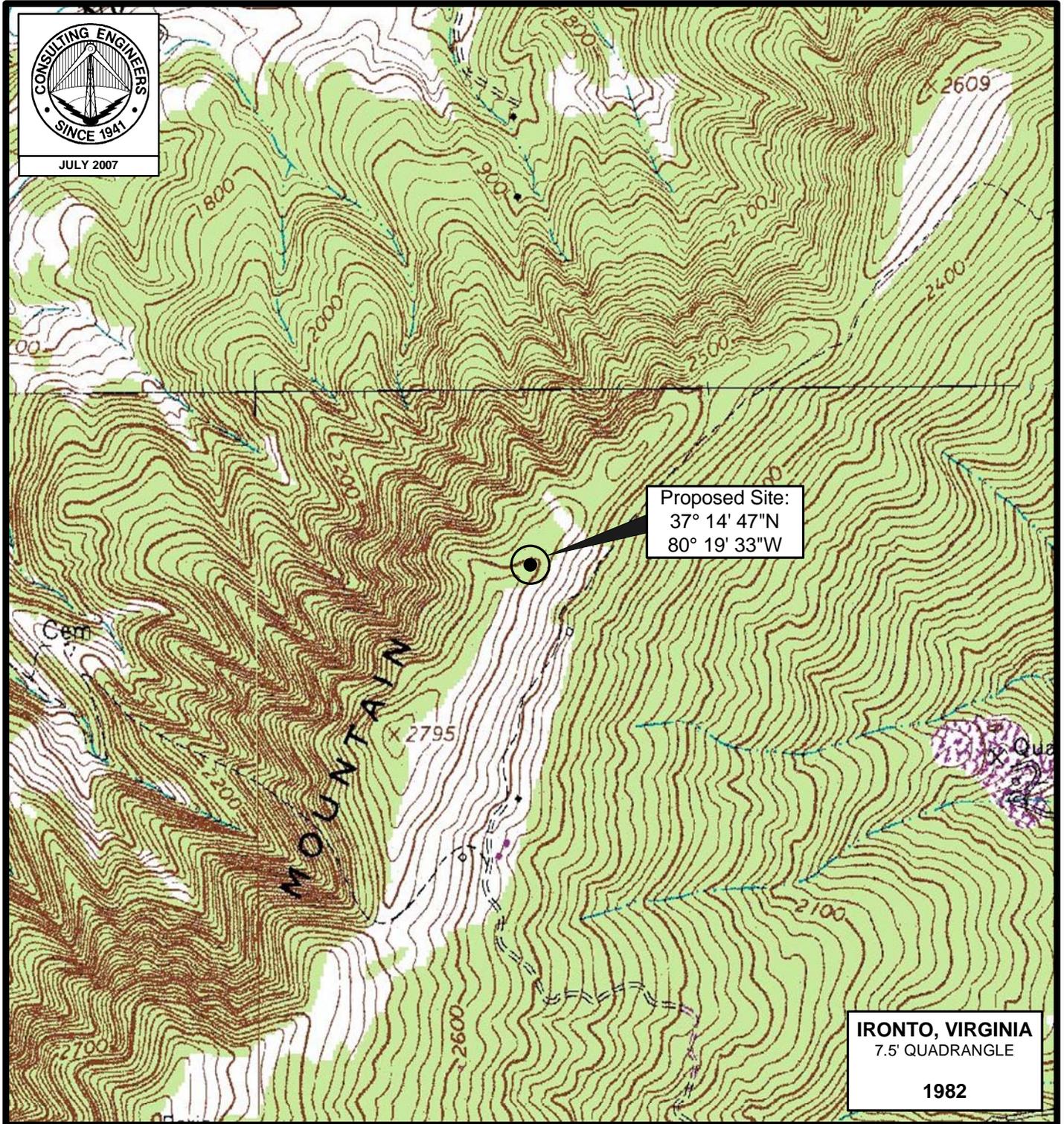
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. The tower owner as part of the tower construction process will complete all other aspects of the environmental processing analysis.

Charles A. Cooper

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July 9, 2007

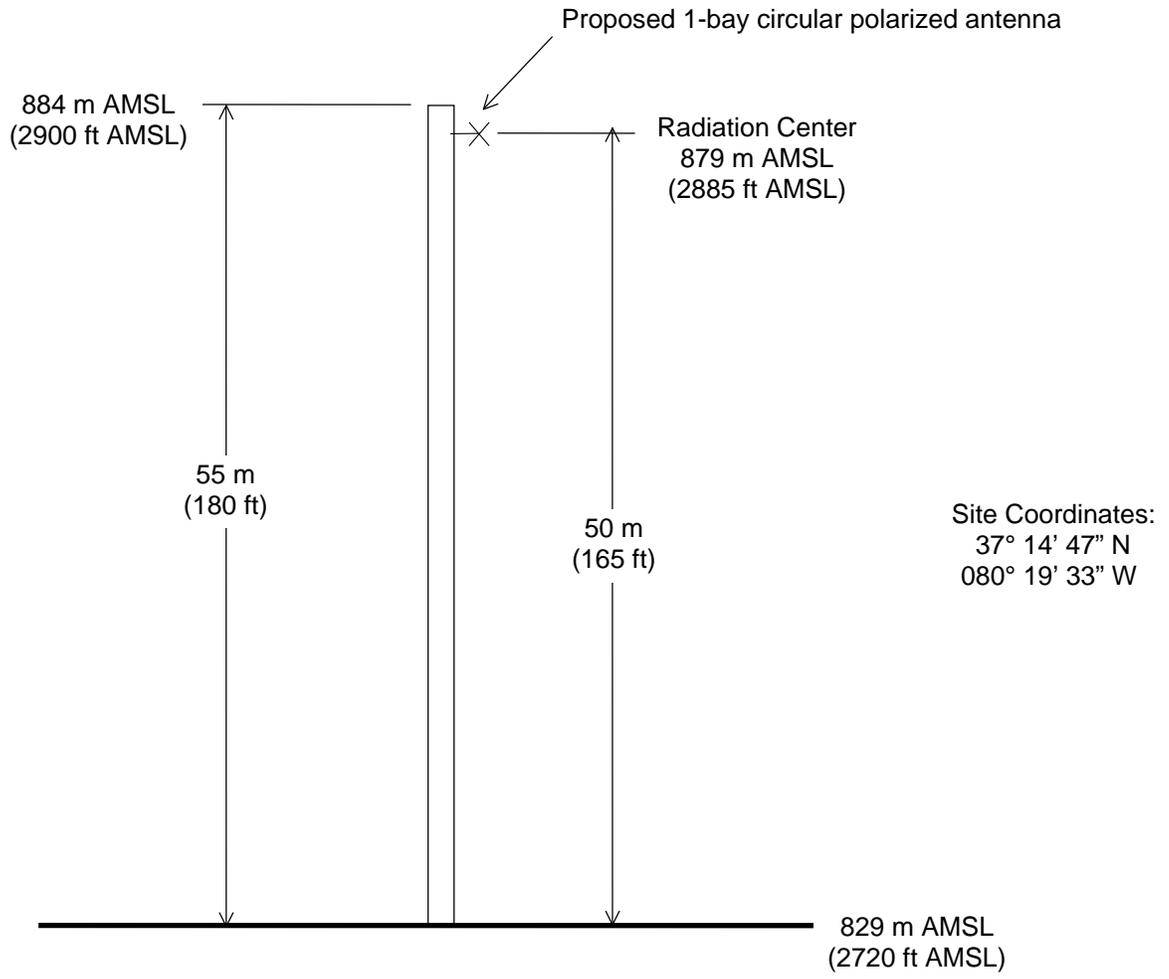
Figure 1



PROPOSED ALLOTMENT REFERENCE SITE

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du Treil, Lundin & Rackley, Inc. Sarasota, Florida



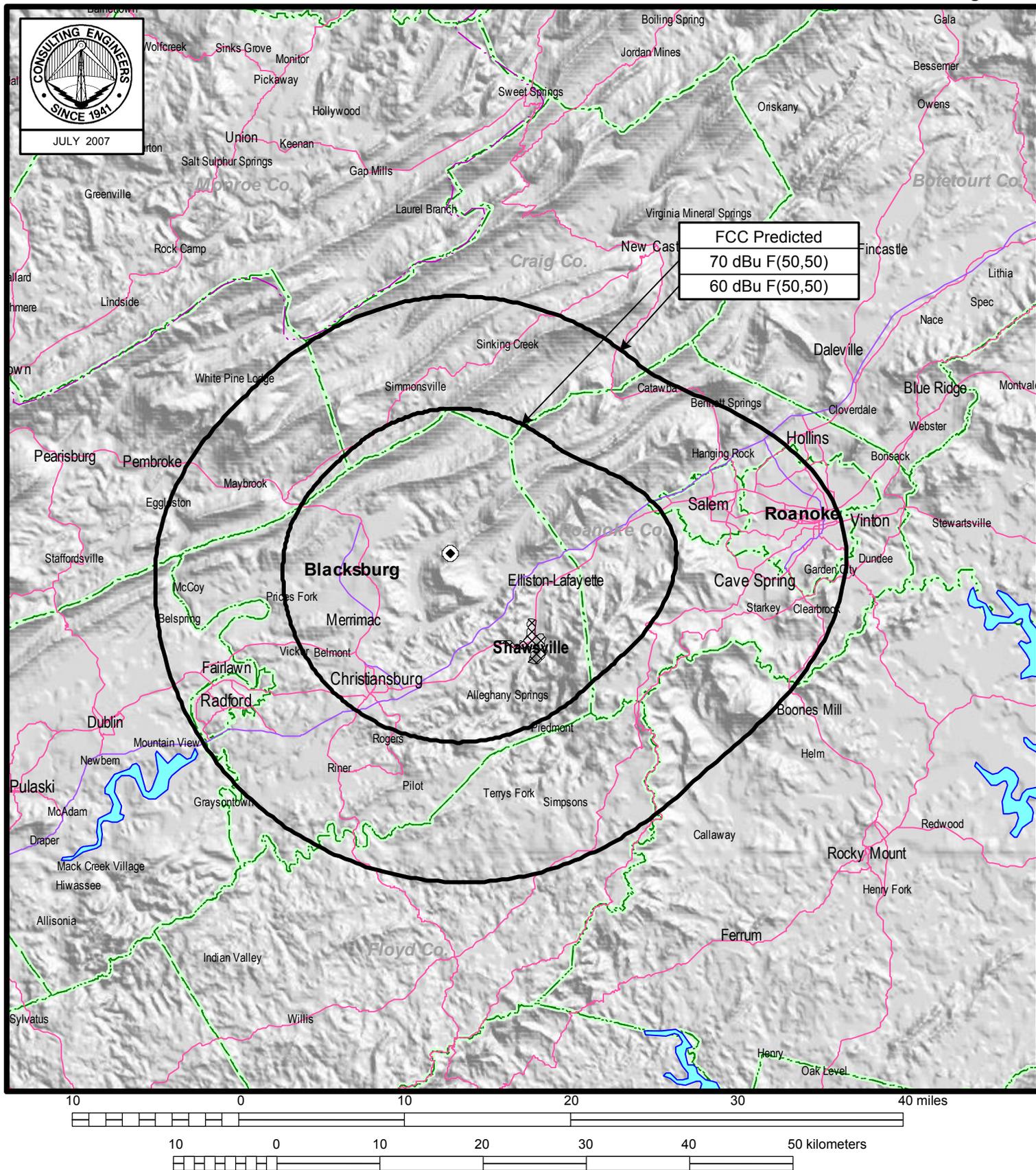
Not to Scale

ANTENNA AND SUPPORTING STRUCTURE

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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 3



PREDICTED COVERAGE CONTOURS

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Channel 273A Allocation Study

37° 14' 47" North Latitude
 80° 19' 33" West Longitude

Call Id	City St	File Status Num	Channel Freq	ERP HAAT	DA Id	Latitude Longitude	73 215	Bear	Dist. (km)	Req. (km)
WJMH 40754	REIDSVILLE NC	BMLH LIC C	20010731ACA	271C0 102.1	100 367	N	36-16-33 079-56-26	N 162.2	113.06 27.06	86.0 Clear
WMTD-FM 6012	HINTON WV	BLH LIC C	19960415KC	272A 102.3	0.37 388	N	37-42-53 080-57-09	N 313.5	75.99 3.99	72.0 Close
971023M 89039	SHAWSVILLE VA			273A 102.5		N	37-09-47 080-16-48	N 156.3	10.10 -104.90	Short
<i>(Shawsville Allotment Reference Point.)</i>										
971022M 89133	SHAWSVILLE VA	BPH APP C	19971022MC	273A 102.5	6 64	N	37-08-14 080-21-30	Y 193.4	12.45	
<i>(Applicant's pending application for Channel 273A at Shawsville, Virginia.)</i>										
WOLD-FM 19477	MARION VA	BLH LIC C	19901214KF	273A 102.5	0.44 367	N	36-54-10 081-32-27	N 250.8	114.58	115.0
<i>(Separation distance rounds to 115 kilometers - No allocation issue.)</i>										
0	MARION VA	RM ADD C	11280	273A 102.5			36-54-10 081-32-27	250.8	114.58	115.0
<i>(Separation distance rounds to 115 kilometers - No allocation issue.)</i>										
WSNZ 36094	APPOMATTOX VA	BLH LIC C	19890602KC	274B 102.7	22 227	N	37-28-07 079-00-27	N 77.6	119.37	113.0
WK CJ 59675	LEWISBURG WV	BLH LIC C	20000626AFN	276B1 103.1	3.3 273	Y	37-47-54 16008 080-30-56	Y 344.8	63.51	48.0