

TECHNICAL EXHIBIT  
MINOR CHANGE IN LICENSED FACILITY  
STATION WOSM (FM) (FACILITY ID 10477)  
OCEAN SPRINGS, MISSISSIPPI  
CH 276C1 100 KW 204 M

Technical Narrative

The technical exhibit of which this narrative is part was prepared on behalf of radio station WOSM(FM), assigned to Ocean Springs, Mississippi. WOSM is presently licensed on Channel 276C2 for an effective radiated power of 50 kilowatts with an antenna height above average terrain of 140 meters (see BLH-19910610KH). By this instant application, it is proposed to modify the station class to Channel 276C1 employing the “one-step” allotment process.

The proposal would not be subject to environmental processing in accordance with Section 1.1306. It is believed that this proposal conforms to all applicable rules and regulations of the FCC.

One-Step Upgrade

It is proposed to modify the station class from the present Class C2 to Class C1 via the “one-step” upgrade process. The transmitting facility will be located on a new tower to be constructed near Vancleave, Mississippi. The proposed site is fully-spaced on channel 276C1 and is described by the following geographic coordinates:

30° 36' 21” North Latitude  
88° 38' 51” West Longitude

Figure 1 is a topographic site map showing the proposed transmitter site (same as allotment reference site). As can be seen from Figure 1, the proposed site is suitable for a transmission facility.

Figure 2 is an allocation study for channel 276C1 from the proposed site. The proposed site satisfies the Commission's minimum distance separations contained in Section 73.207(b) of the Commission's Rules toward all other stations and allotments.

Figure 3 is a sketch showing the antenna and existing supporting structure.

A coverage map indicating that the FCC predicted 70 dBu contour entirely encompasses the principal community of Ocean Springs is shown in Figure 4.

#### Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station would extend radially 3 kilometers from the transmitting site. 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.

#### FCC Predicted Coverage Contours

The predicted coverage contours for the proposed operation were calculated in accordance with the provisions of Section 73.313. Pursuant 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 the 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.

Radiofrequency Electromagnetic Field Exposure

The proposed facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OST Bulletin No. 65, *Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*.<sup>1</sup> 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 effective radiated power of 200 kilowatts is employed with a radiation center of 184 meters above ground level. Using a “worst-case” downward relative field value of 1.0, it is calculated that the maximum power density at 2 meters above ground level resulting from this facility is 50% of the FCC’s guideline value for an uncontrolled environment for a FM radio station.<sup>2</sup> There are no other broadcast stations in the vicinity.

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 electromagnetic will not exceed the FCC guidelines.

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<sup>1</sup> OET Bulletin 65, Second Edition 97-01, August 1997.

<sup>2</sup> The FCC maximum guideline for a FM broadcast station in an uncontrolled environment is 0.2 mW/cm<sup>2</sup>.

Figure 1

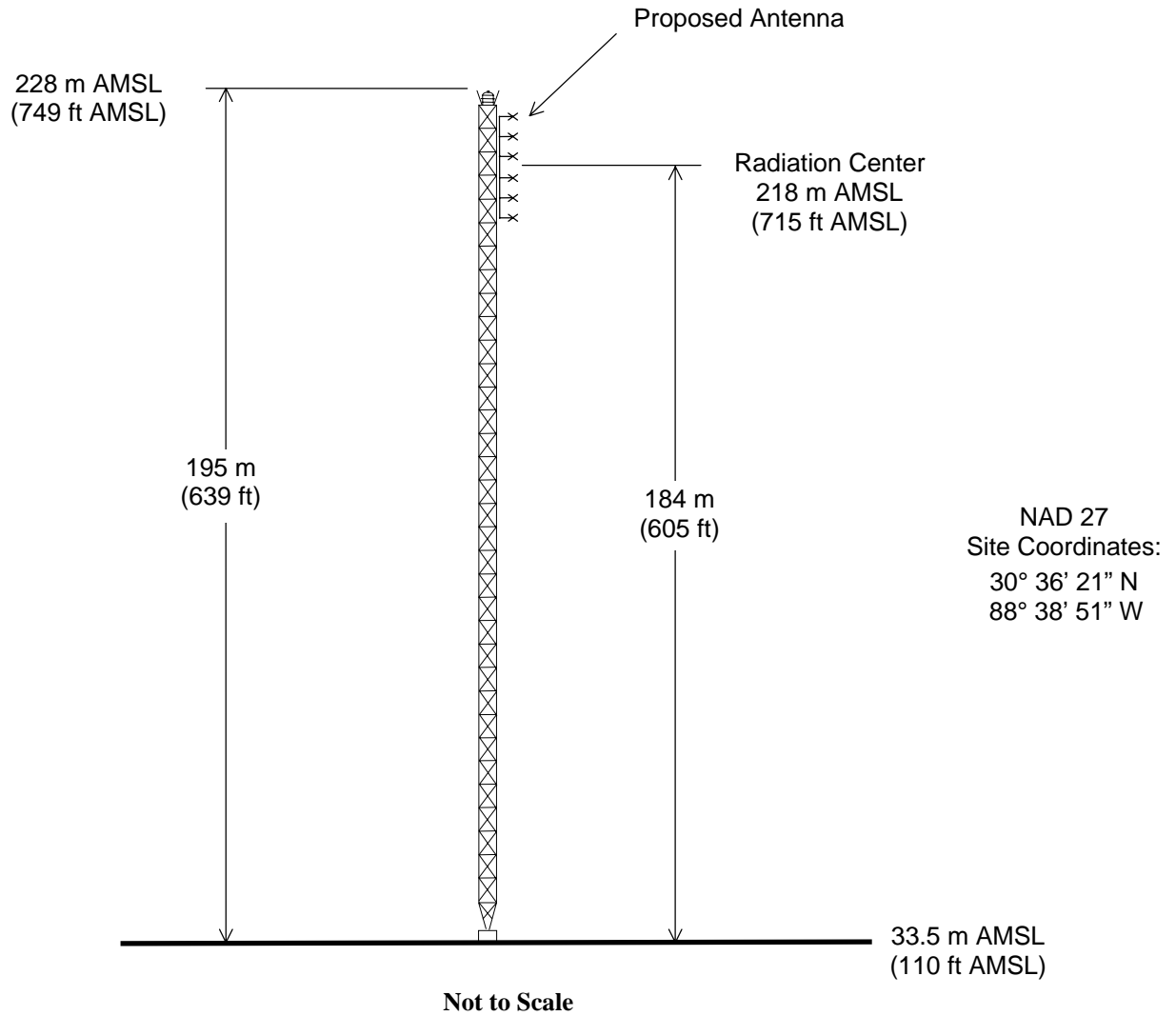


## PROPOSED TRANSMITTER LOCATION

RADIO STATION WOSM(FM)  
OCEAN SPRINGS, MISSISSIPPI  
CH 276C1 100 KW 204 M

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

Figure 2



## **PROPOSED ANTENNA AND SUPPORTING STRUCTURE**

STATION WOSM(FM)

OCEAN SPRINGS, MISSISSIPPI

CH 276C1 100 KW 204 M

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

Figure 3

CDBS FM SEPARATION STUDY

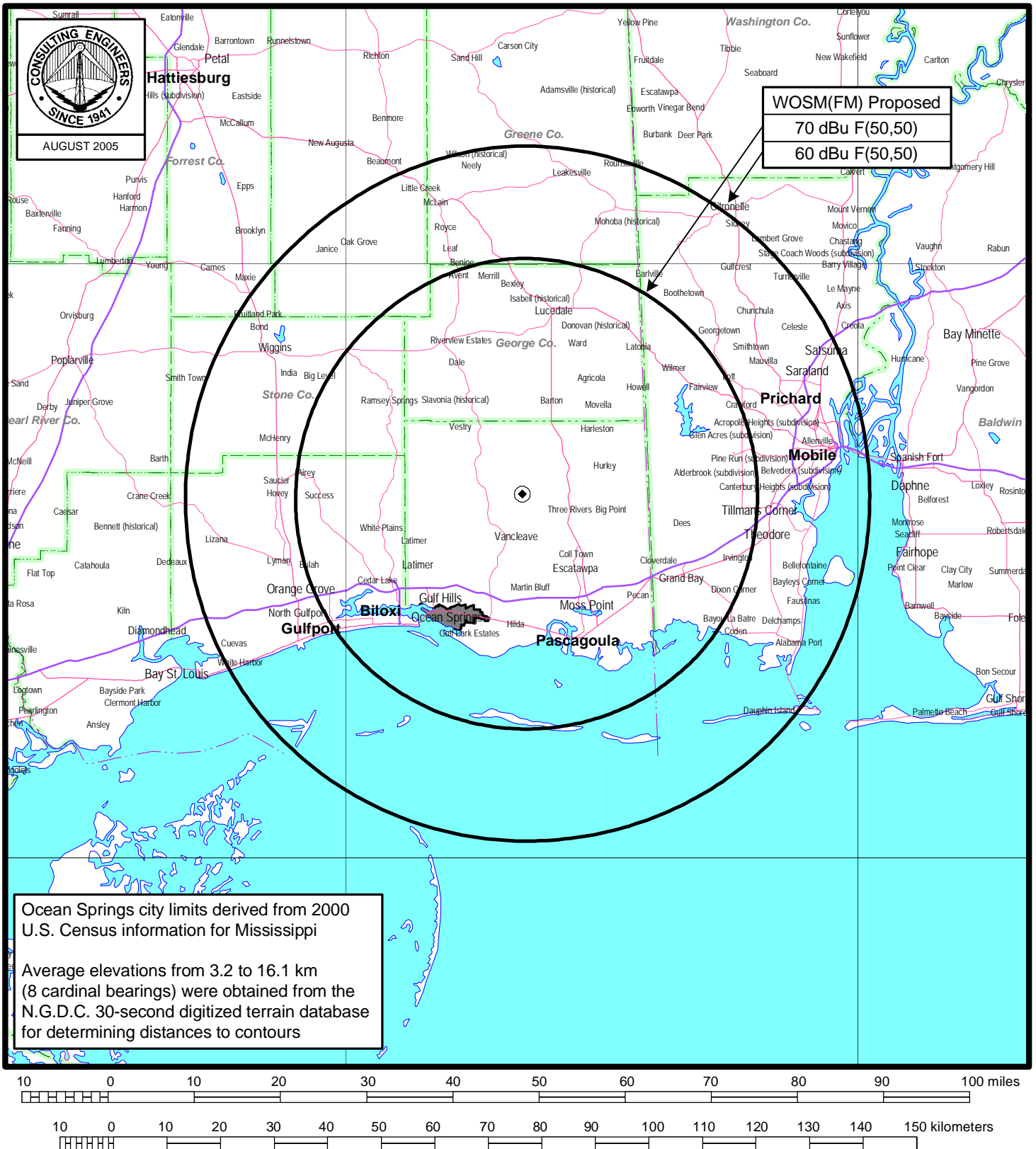
Channel: 276C1  
8/26/2005

Separation Buffer: 32 km  
Coordinates: 30-36-21 N 88-38-51 W

Call Id	City St	File Status	Num	Channel Freq	ERP HAAT	DA Id	Latitude Longitude	73 215	Bear	Dist. (km)	Req. (km) 73.215 73.207
WQYZ 24513	OCEAN MS	SPRIN LIC	BLH C	223 92.5	A 98	6.000 15847	Y 088-51-21	30-27-09	Y 229.5	26.24	0.0 22.0
WXBM-FM 32946	MILTON FL		BLH LIC	274 102.7	C 405	100.000	N 087-33-16	30-35-18	N 90.8	104.85	99.0 105.0
<i>(Separation distance rounds to 105 kilometers.)</i>											
KMEZ 12157	BELLE LA	CHASS LIC	BLH C	275 102.9	C3 184	4.700	N 089-56-58	29-57-14	Y 240.2	144.62	133.0 144.0
KMEZ 12157	BELLE LA	CHASS CP	BPH C	275 102.9	C3 91	18.500	N 089-57-28	29-56-59	Y 240.2	145.55	133.0 144.0
WOSM 10477	OCEAN MS	SPRIN LIC	BLH C	276 103.1	C2 140	50.000	N 088-42-23	30-24-34	N 194.5	22.49	
<i>(Applicant's existing facility.)</i>											
WMXZ 60811	VALPARAISO FL		BLH LIC	276 103.1	C2 147	50.000	N 086-13-12	30-30-53	N 91.9	233.12	211.0 224.0
WCDV 61271	HAMMOND LA		BLH LIC	277 103.3	C 306	100.000	N 090-50-43	30-24-06	N 264.4	212.19	188.0 209.0
WUSW 54611	HATTIESBURG MS		BLH LIC	279 103.7	C 322	100.000	N 089-08-07	31-31-37	N 335.7	112.23	99.0 105.0



Figure 4



## PROPOSED COVERAGE MAP

STATION WOSM(FM)

OCEAN SPRINGS, MISSISSIPPI

CH 276C1 100 KW 207 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida