

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*.¹ 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.² 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.

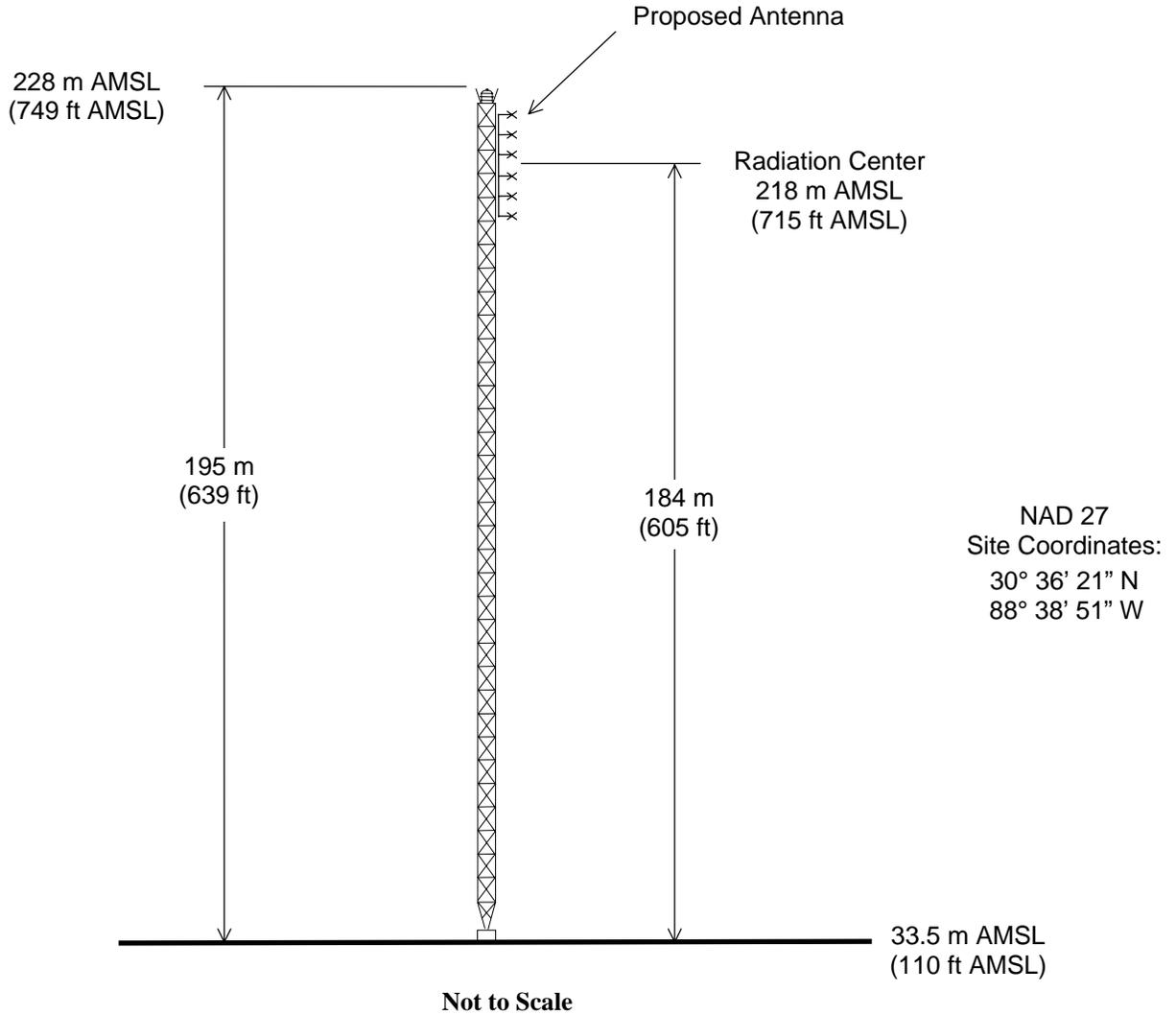
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Sarasota, Florida 34237
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August 26, 2005

¹ OET Bulletin 65, Second Edition 97-01, August 1997.

² The FCC maximum guideline for a FM broadcast station in an uncontrolled environment is 0.2 mW/cm².



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

STATION WOSM(FM)

OCEAN SPRINGS, MISSISSIPPI

CH 276C1 100 KW 204 M

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

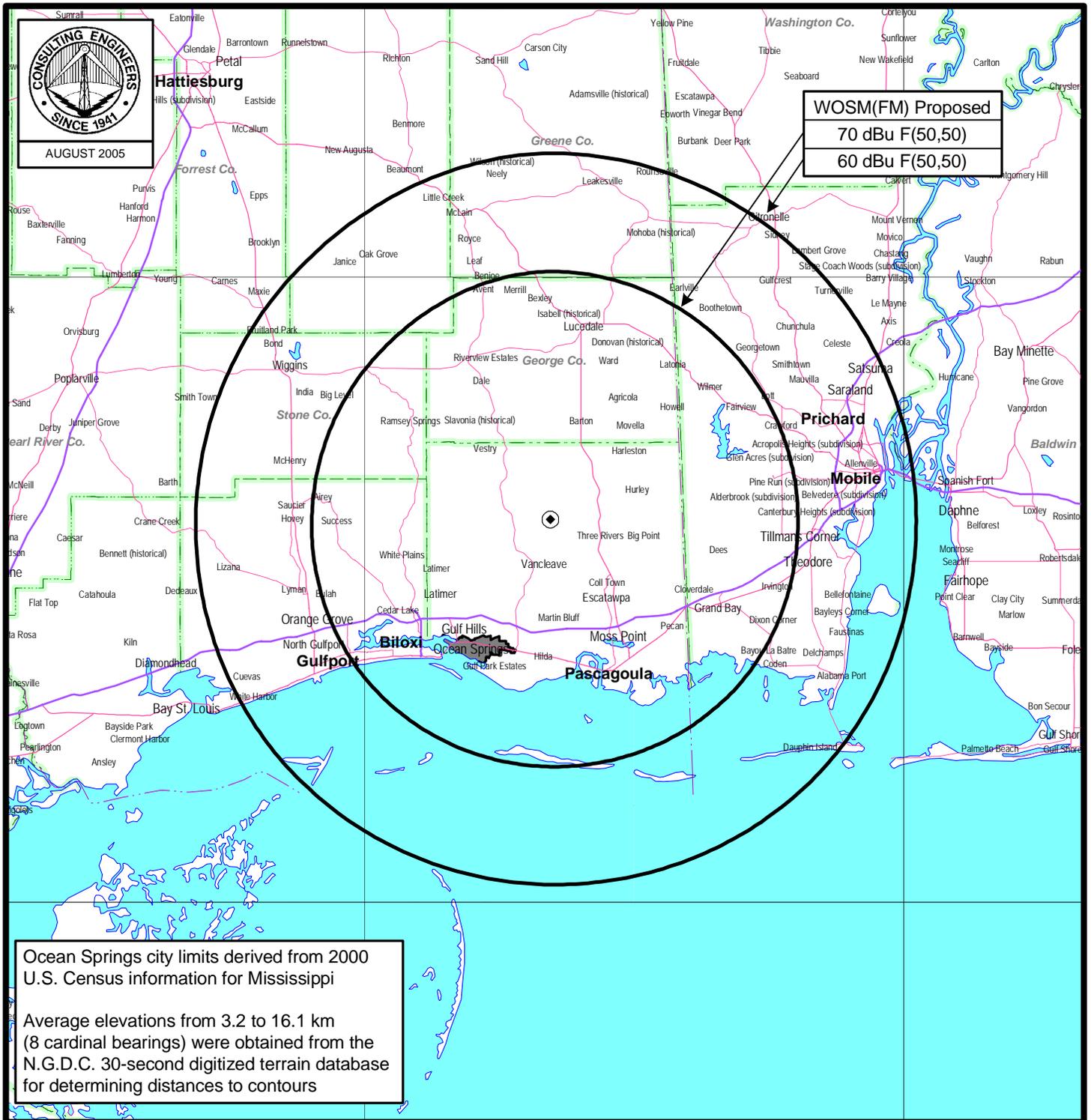
CDBS FM SEPARATION STUDY

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 SPRIN MS LIC C	BLH 20010118ABJ	223 A 92.5	6.000 98	Y 15847	30-27-09 088-51-21	Y	229.5	26.24	0.0 22.0
WXBM-FM 32946	MILTON FL LIC C	BLH 19860131KI	274 C 102.7	100.000 405	N	30-35-18 087-33-16	N	90.8	104.85	99.0 105.0
<i>(Separation distance rounds to 105 kilometers.)</i>										
KMEZ 12157	BELLE CHASS LA LIC C	BLH 19910328KA	275 C3 102.9	4.700 184	N	29-57-14 089-56-58	Y	240.2	144.62	133.0 144.0
KMEZ 12157	BELLE CHASS LA CP C	BPH 20040506ABP	275 C3 102.9	18.500 91	N	29-56-59 089-57-28	Y	240.2	145.55	133.0 144.0
WOSM 10477	OCEAN SPRIN MS LIC C	BLH 19910610KC	276 C2 103.1	50.000 140	N	30-24-34 088-42-23	N	194.5	22.49	
<i>(Applicant's existing facility.)</i>										
WMXZ 60811	VALPARAISO FL LIC C	BLH 20031126AIP	276 C2 103.1	50.000 147	N	30-30-53 086-13-12	N	91.9	233.12	211.0 224.0
WCDV 61271	HAMMOND LA LIC C	BLH 19841005CS	277 C 103.3	100.000 306	N	30-24-06 090-50-43	N	264.4	212.19	188.0 209.0
WUSW 54611	HATTIESBURG MS LIC C	BLH 19860609KD	279 C 103.7	100.000 322	N	31-31-37 089-08-07	N	335.7	112.23	99.0 105.0

Figure 4



WOSM(FM) Proposed
 70 dBu F(50,50)
 60 dBu F(50,50)

Ocean Springs city limits derived from 2000 U.S. Census information for Mississippi

Average elevations from 3.2 to 16.1 km (8 cardinal bearings) were obtained from the N.G.D.C. 30-second digitized terrain database for determining distances to contours

PROPOSED COVERAGE MAP

STATION WOSM(FM)

OCEAN SPRINGS, MISSISSIPPI

CH 276C1 100 KW 207 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida