value of the predicted interfering contour for the proposed FM station over the appropriate arcs of bearings specified in that section of the FCC Rules. Distances to the Grade B contours for both TV channel 6 stations were determined every 5° of azimuth (beginning a 0° True North) and are shown in Figure 6 over arcs of bearings sufficient to clearly demonstrate lack of predicted interference.

Environmental Considerations

The proposed facility was evaluated in terms of potential radiofrequency radiation exposure at 2 meters above ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". From the vertical radiation pattern of the proposed 8-bay FM antenna, included as an Attachment, it can be seen that at vertical angles greater than 10° below the horizontal, the antenna relative field factor is less than 0.3. Using Equation (4) on Page 8 of the above referenced bulletin and a "worst-case" relative field factor of 0.3, the "worst-case" power density at 2.0 meters above ground level attributable to the proposed FM operation at any location around the tower is predicted to be less than 1.0 percent of the ANSI standard. Based on Note 2 of 47 CFR 1.1307(b), the proposed facility is, therefore, excluded from consideration of its contribution to the total radiofrequency radiation environment at this multi-user tower site.

Access to the tower is restricted by a fence about the tower base and appropriate warning signs are

posted. Should it become necessary for workers or other authorized personnel to enter the restricted area and climb the tower, the applicant verifies that appropriate measures will be taken (including a reduction in or shut down of power, as necessary) to assure that no exposure to radiofrequency radiation in excess of the ANSI guidelines occurs. These measures will be taken in cooperation with other users of the tower site.

The proposal appears to be categorically excluded from environmental processing, as it appears to meet all of the criteria for such an exclusion in 47 CFR 1.1306. The proposal does not involve new tower construction as it is proposed to locate at an established broadcast transmitting site. Furthermore, the potential for human exposure to radiofrequency radiation is predicted to be within the standards specified in 47 CFR 1.1307(b).

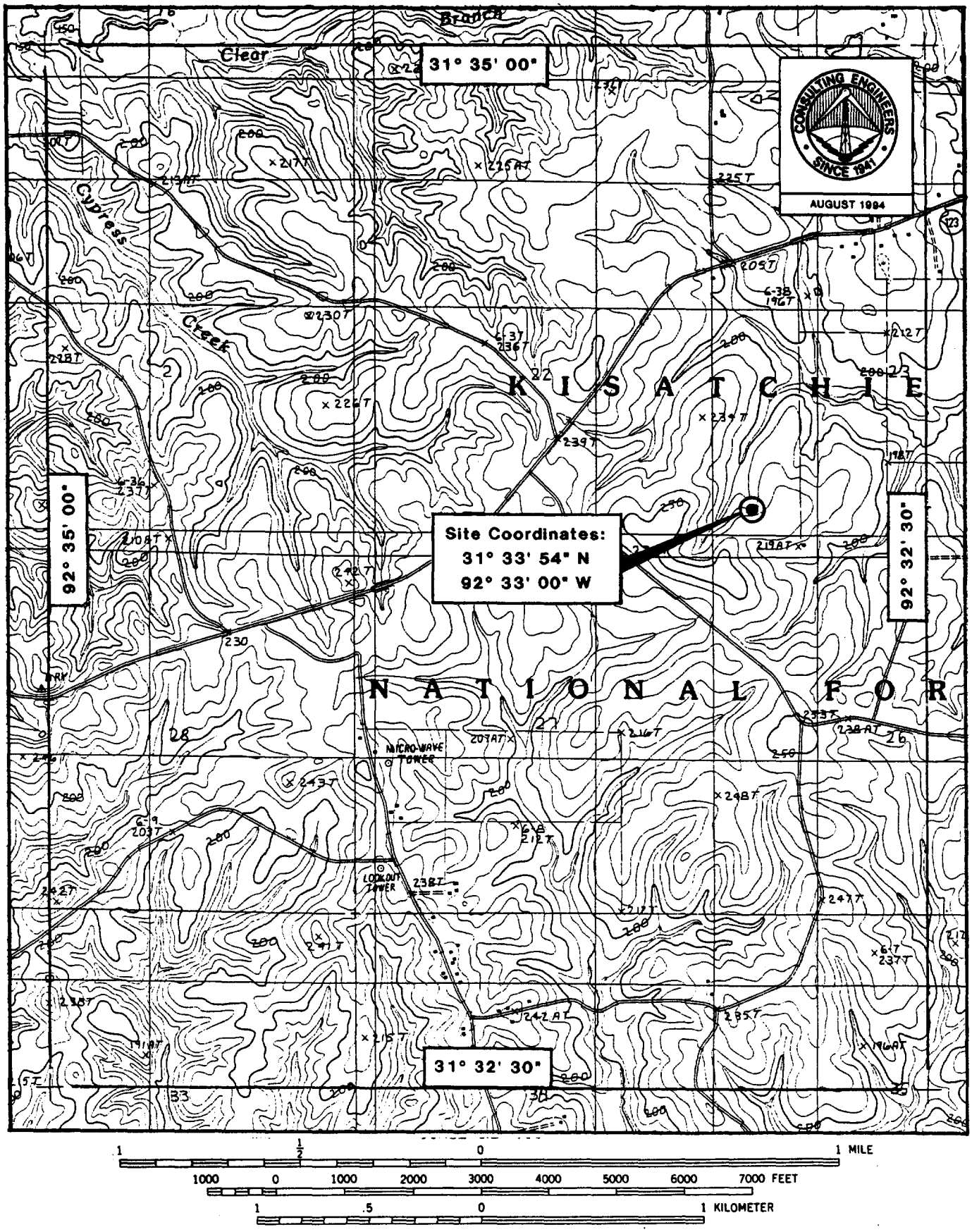
David E. Dickmann

David E. Dickmann

August 2, 1994

Figure 1

Sheet 1 of 2



PROPOSED TRANSMITTER LOCATION

EDUCATIONAL RADIO FOUNDATION, INC.
JENA, LOUISIANA
CH 201C1 15.5 KW (H),70 KW (V) 307 M

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

Figure 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DRY PRONG
LOUISIANA
7.5 MINUTE SE

Sheet 2 of 2

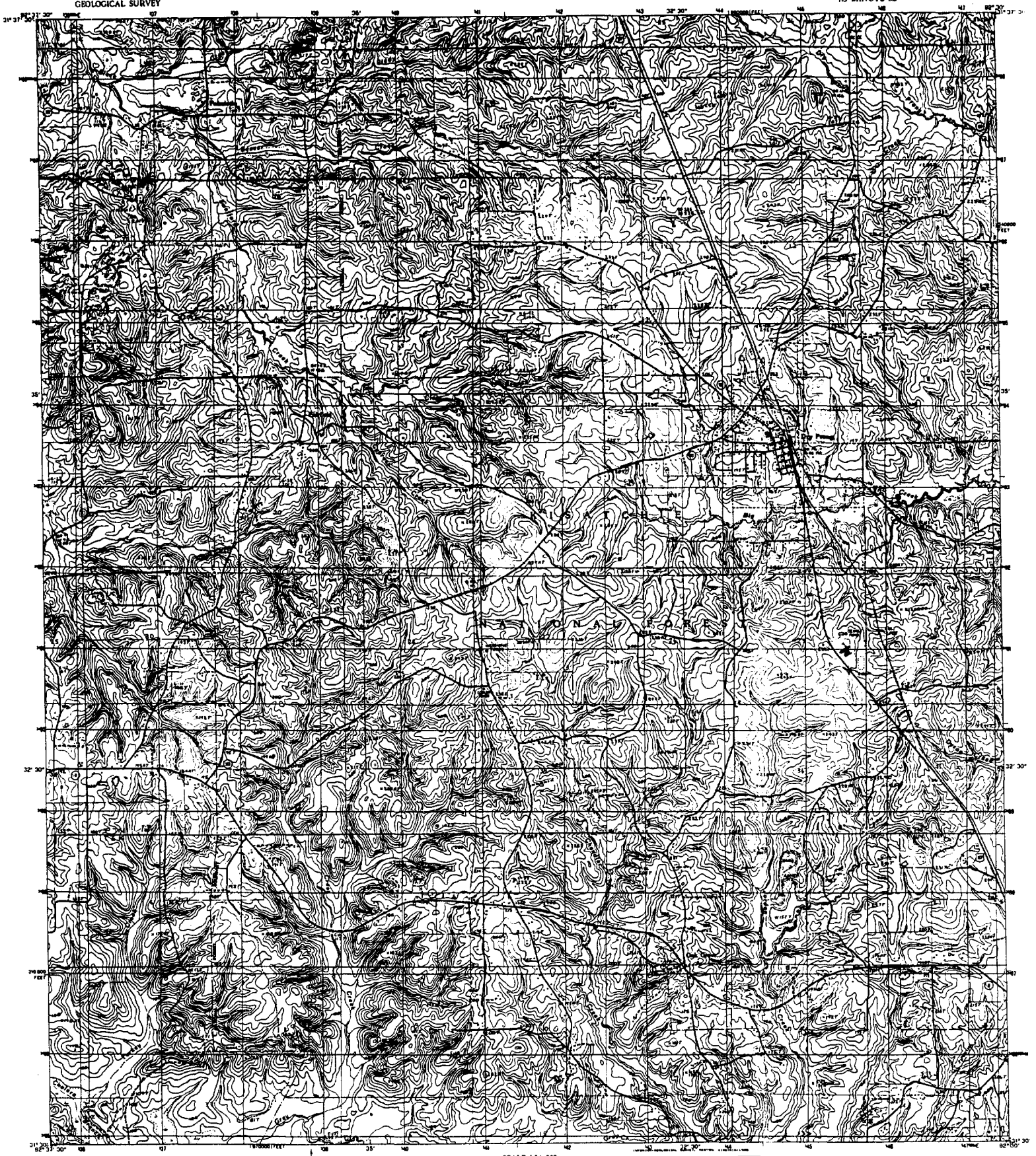
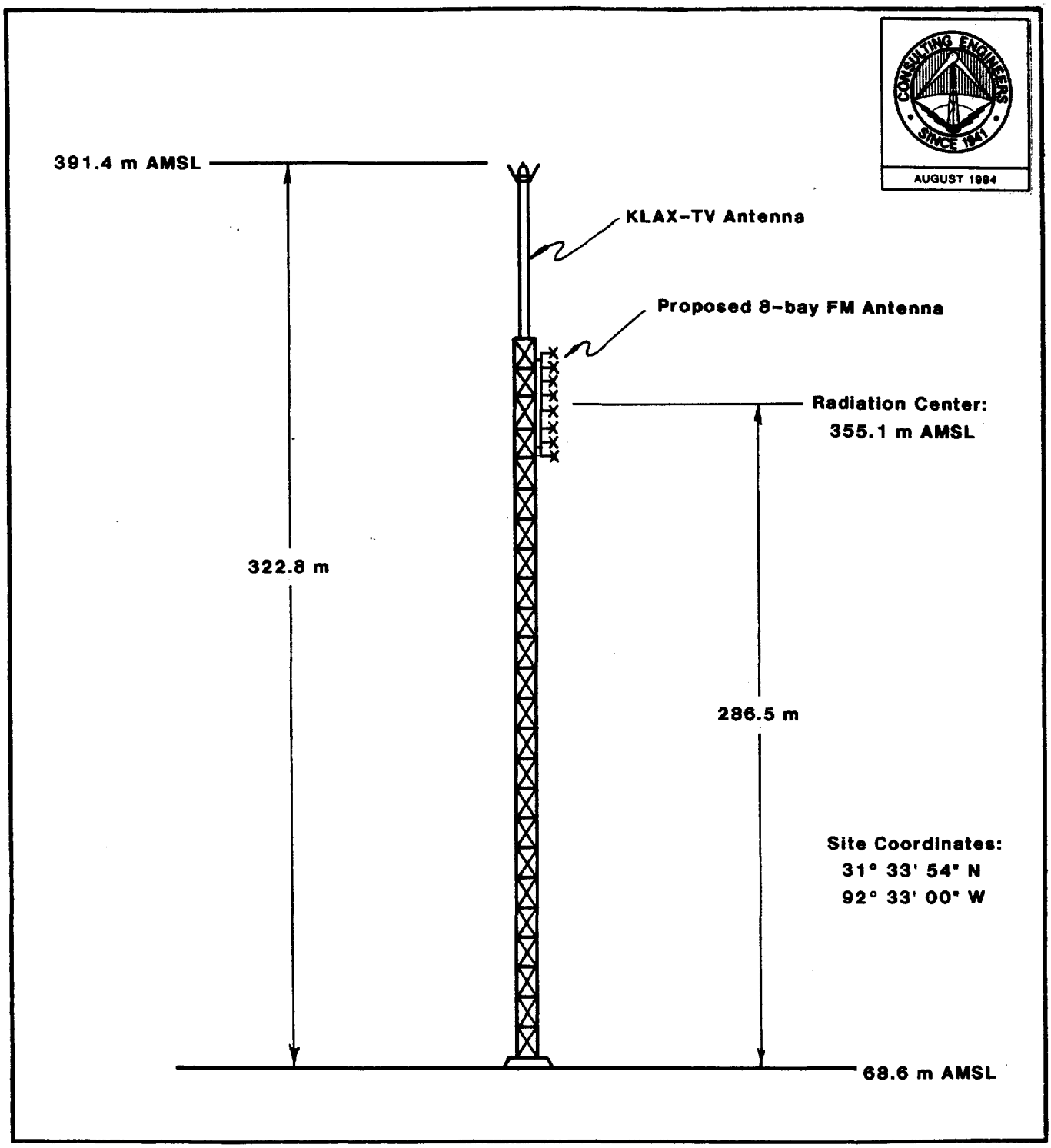


Figure 2



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

EDUCATIONAL RADIO FOUNDATION, INC.

JENA, LOUISIANA

CH 201C1 15.5 KW (H),70 KW (V) 307 M

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

Figure 3

TECHNICAL EXHIBIT
APPLICATION FOR FM CONSTRUCTION PERMIT
EDUCATIONAL RADIO FOUNDATION, INC.
JENA, LOUISIANA
CH 201C1 15.5 KW(H), 70 KW(V) 307 M

Tabulation of Average Elevations
and Distances to Coverage Contour

Radial Bearing (deg. T.)	3-16 Kilometer Average Terrain Elevation (meters AMSL)	Antenna Height Above Average Terrain (meters)	Distance to 60 dBu Contour (km)
0	65	290	68.0
45	52	303	69.0
90	45	310	69.5
135	60	295	68.4
180	48	307	69.3
225	39	316	70.0
270	39	316	70.0
315	37	318	70.1
Average	48	307	

Figure 4

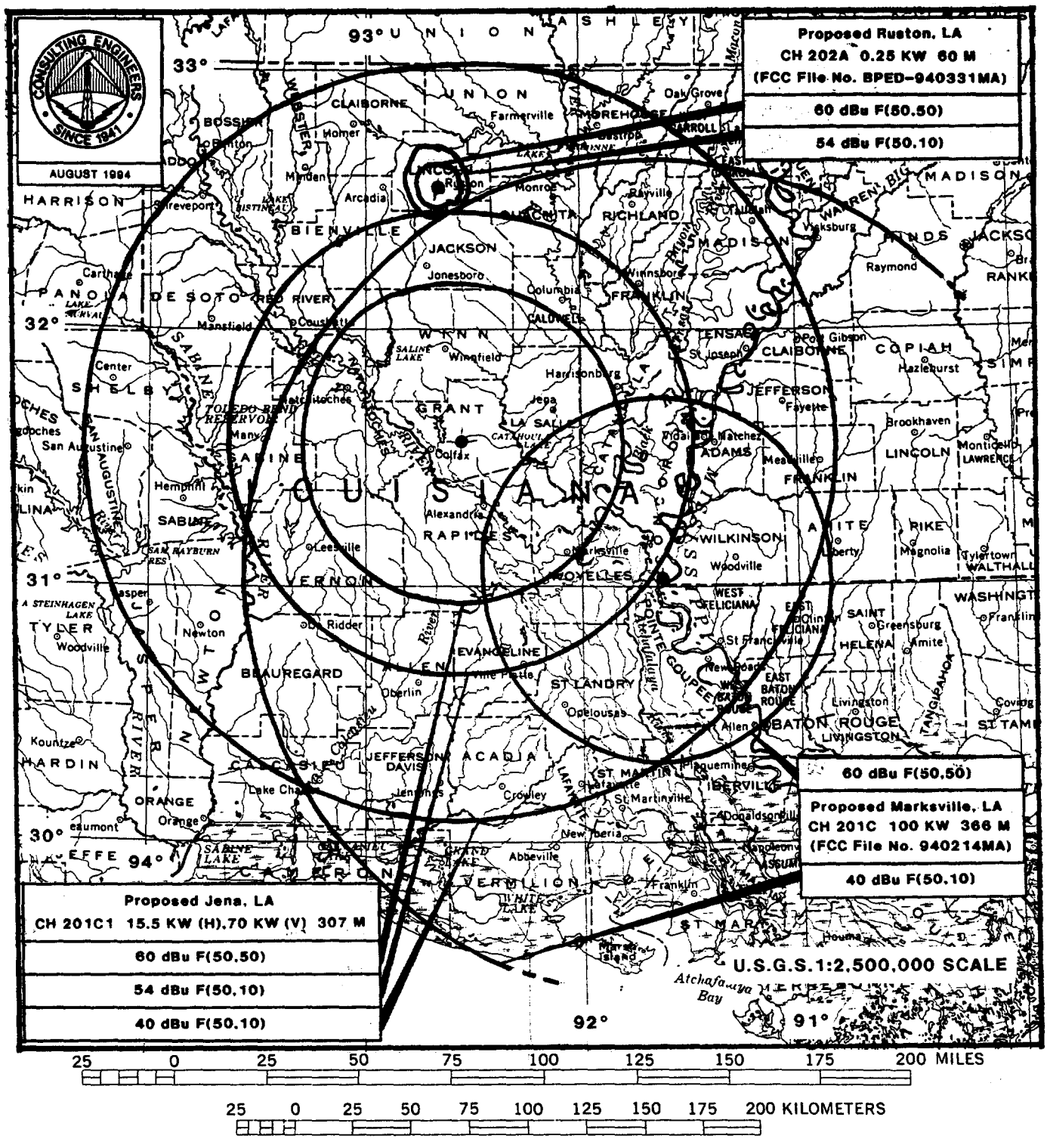
PREDICTED COVERAGE CONTOUR

EDUCATIONAL RADIO FOUNDATION, INC.

JENA, LOUISIANA

CH 201C1 15.5 KW (H),70 KW (V) 307 M

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



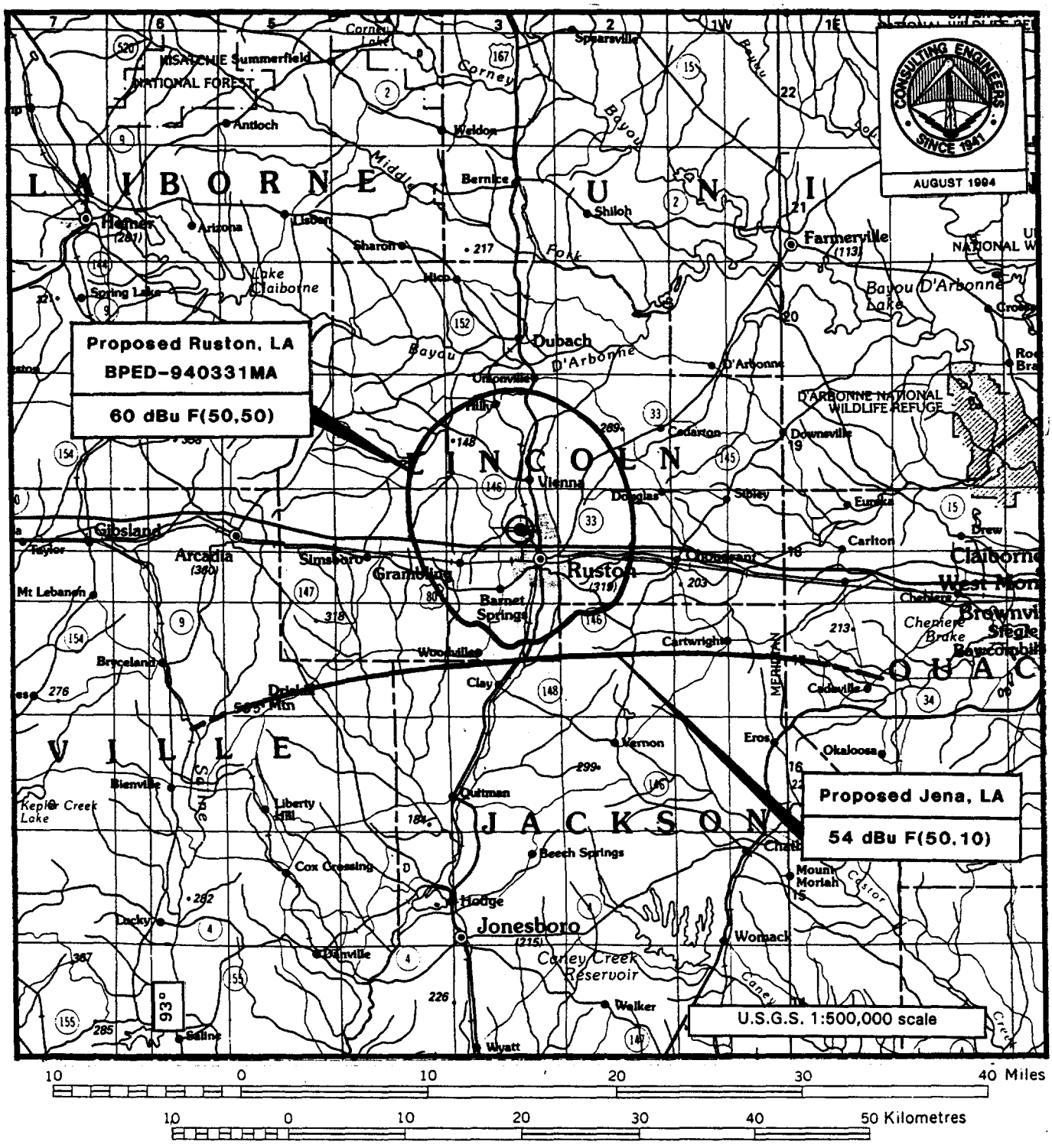
ALLOCATION STUDY

EDUCATIONAL RADIO FOUNDATION, INC.

JENA, LOUISIANA

CH 201C1 15.5 KW (H),70 KW (V) 307 M

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



10 0 10 20 30 40 Miles

10 0 10 20 30 40 50 Kilometres

ALLOCATION STUDY

EDUCATIONAL RADIO FOUNDATION, INC.

JENA, LOUISIANA

CH 201C1 15.5 KW (H),70 KW (V) 307 M

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

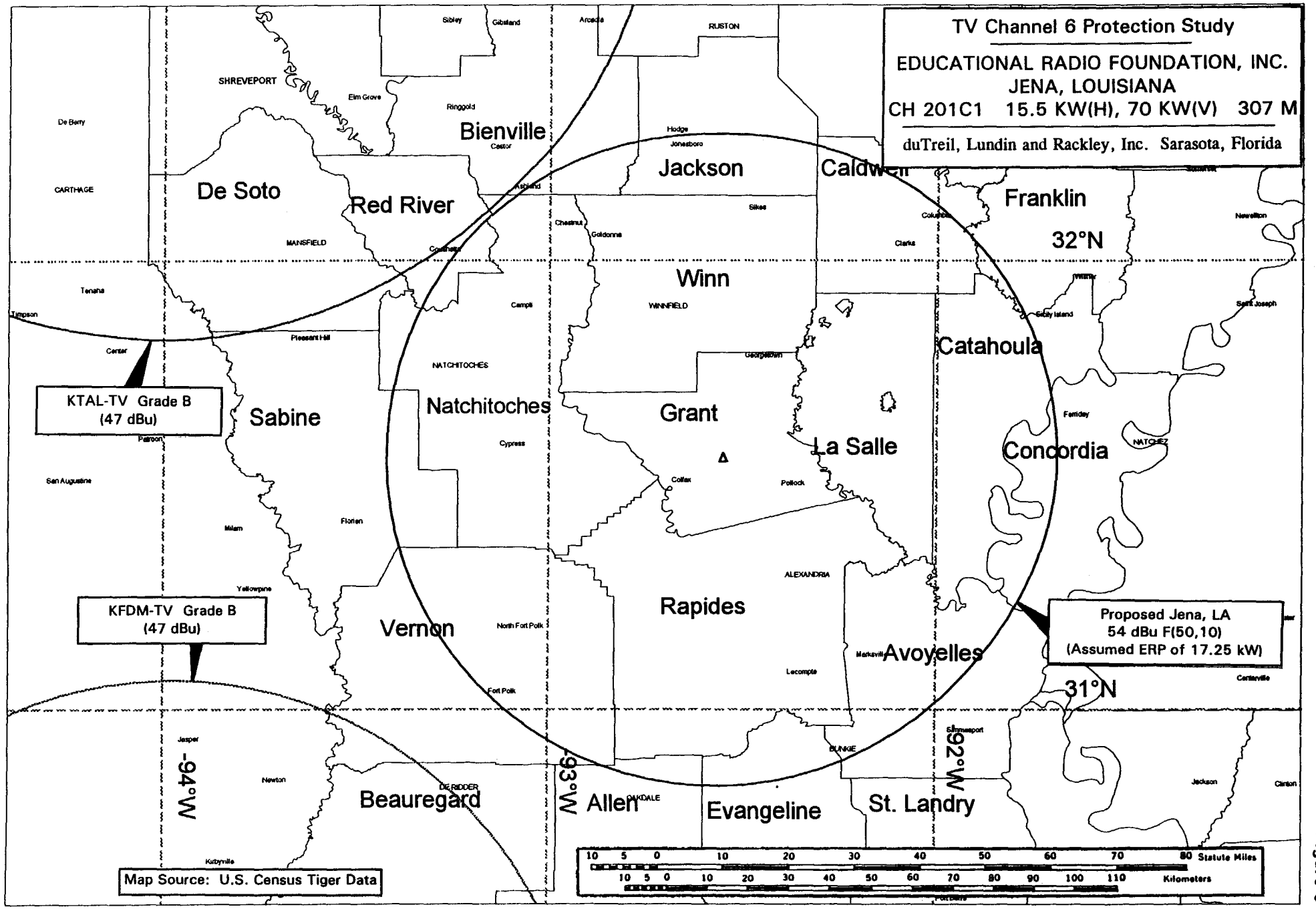

TV Channel 6 Protection Study
EDUCATIONAL RADIO FOUNDATION, INC.
JENA, LOUISIANA
CH 201C1 15.5 KW(H), 70 KW(V) 307 M
duTreil, Lundin and Rackley, Inc. Sarasota, Florida
De Soto
Red River
Bienville
Jackson
Caldwell
Franklin
Winn
Catahoula
Sabine
Natchitoches
Grant
La Salle
Concordia
Vernon
Rapides
Avoyelles
Beauregard
Allen
Evangeline
St. Landry
32°N
31°N
-94°W
-93°W
-92°W
KTAL-TV Grade B
(47 dBu)
KFDM-TV Grade B
(47 dBu)
Proposed Jena, LA
54 dBu F(50,10)
(Assumed ERP of 17.25 kW)
Map Source: U.S. Census Tiger Data
Statute Miles
Kilometers

Figure 6

TECHNICAL EXHIBIT
APPLICATION FOR FM CONSTRUCTION PERMIT
EDUCATIONAL RADIO FOUNDATION, INC.
JENA, LOUISIANA
CH 201C1 15.5 KW(H), 70 KW(V) 307 M

Allocation Study

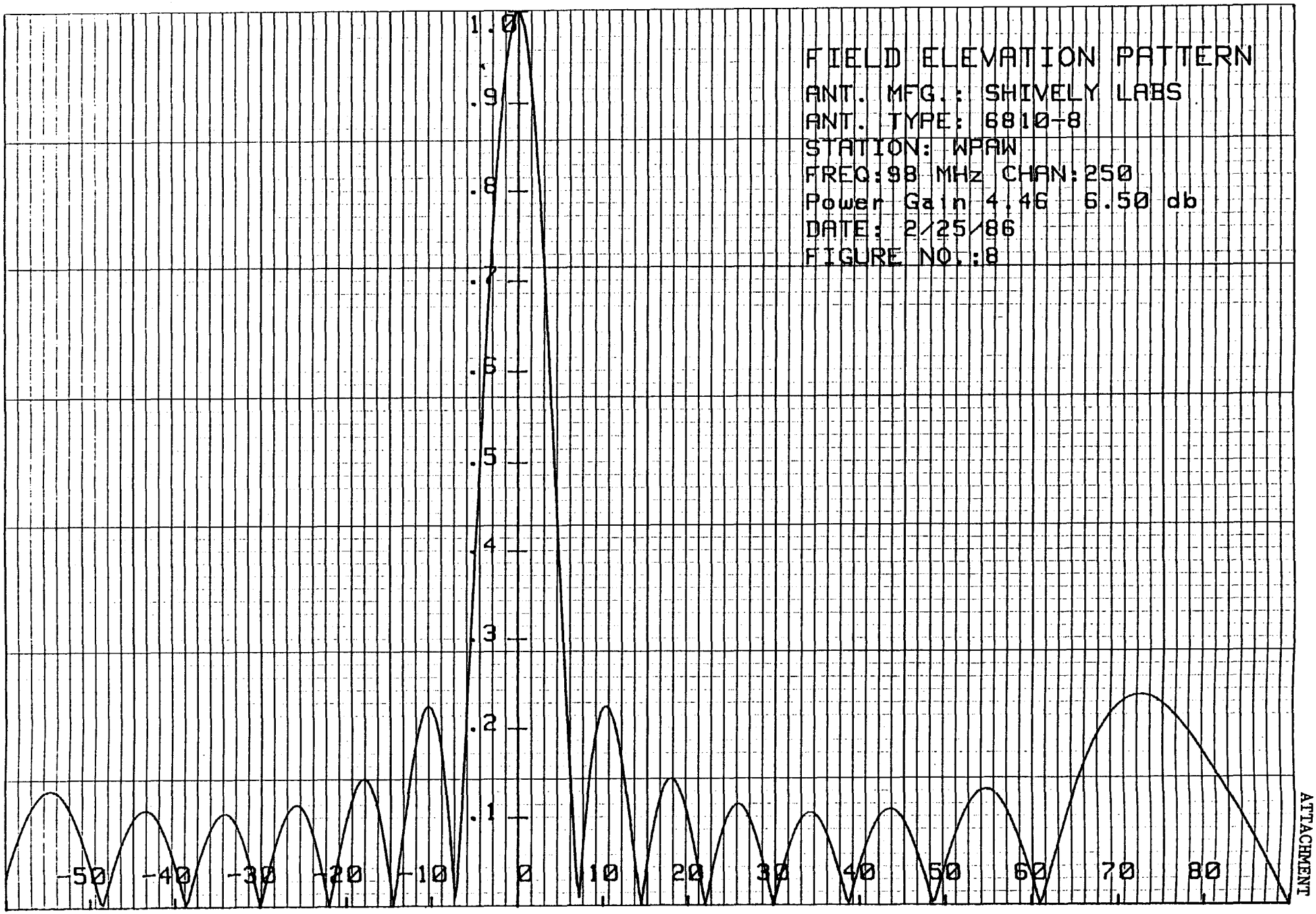
Job Title :Jena, Louisiana
Separation Buffer 32 km
FCC DB Date : 06/28/94
Channel 201C1 (88.1 MHz)
Coordinates : 31-33-54 92-33-00

Call Status	City State	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-Tru	Dist. (km)	Req. (km)
NEW APP	Marksville LA	940214MA	201C 88.1	100. 366.0	31-02-00 91-38-51	124.3	104.21	270[1]
NEW APP	Ruston LA	BPED940331MA	202A 88.3	.250 60.0	32-33-08 92-39-21	354.8	109.93	133[2]
KNLU LIC	Monroe LA	BLED881005MJ	204C3 88.7	1.35 210.0	32-39-38 91-59-28	23.2	132.45	72[3]
KICRFM LIC	Oakdale LA	BLH910109KC	254C2 98.7	10. 321.0	31-01-59 92-30-08	175.6	59.16	27
KICRFM CP	Oakdale LA	BPH930224IC	254C1 98.7	35.0 321.0	31-01-59 92-30-08	175.6	59.16	34

[1]See Figure 6, Sheet 1.

[2]See Figure 6, Sheets 1 and 2.

[3]Required distance based on sum of the maximum distance to the proposed 60 dBu [F(50,50)] contour and the maximum distance to the KNLU 100 dBu [F(50,10)] contour.


FIELD ELEVATION PATTERN
ANT. MFG.: SHIVELY LABS
ANT. TYPE: 6810-8
STATION: WPAW
FREQ:98 MHz CHAN:250
Power Gain 4.46 6.50 db
DATE: 2/25/86
FIGURE NO.:8
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80

ATTACHMENT