

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
NEW FM STATION (FACILITY ID 183331)
MOBERLY, MISSOURI

OCTOBER 13, 2009

CH 223A 6 KW 100 M

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Technical Narrative

This Technical Exhibit was prepared on behalf of a “long-form” application for a new FM station at Moberly, Missouri, resulting from FCC Auction 79 (MM-FM669-A).

Proposed Facilities

This application proposes to construct a Class A facility at the following site coordinates (NAD27): 39-28-43 N, 92-30-10 W (see Figure 1). It is proposed to operate with a non-directional ERP of 6 kW and antenna HAAT of 100 meters. A sketch of the proposed structure is shown in Figure 2. The Federal Aviation Administration (FAA) is being notified of the proposed structure. When a *Determination of No Hazard* is issued, the tower will be registered with the FCC.

Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station is predicted to extend radially 1 kilometer from the transmitting site. No interference is expected. 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.

Allocation Study

Figure 3 is an allocation study for channel 223A from the proposed site coordinates. The site meets the FCC's minimum separation requirements, specified in Section 73.207(b) of the Commission's Rules, to all assignments and stations.

Proposed Coverage Analysis

Figure 4 is a map showing the predicted FCC coverage contours for the proposed operation. The FCC predicted 70 dBu coverage contour will encompass all of the population within the Moberly city limits as derived from 2000 U.S. Census data.

The overall average HAAT (100 meters, rounded to the nearest meter) was determined using the N.G.D.C. 30-second terrain database and 8 evenly spaced radials (every 45 degrees of azimuth).

Radiofrequency Electromagnetic Field Exposure

The proposed FM facility was evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. Based on the FCC's FM Model program using a 4-bay "rototiller" antenna, the calculated power density at a point 2 meters above ground level will not exceed 0.005 mW/cm^2 , which is less than 5% of the FCC's recommended limit of 0.2 mW/cm^2 for FM channels, applicable to general population/uncontrolled exposure areas.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective

clothing and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down. The proposed operation appears to be otherwise categorically excluded from environmental processing.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

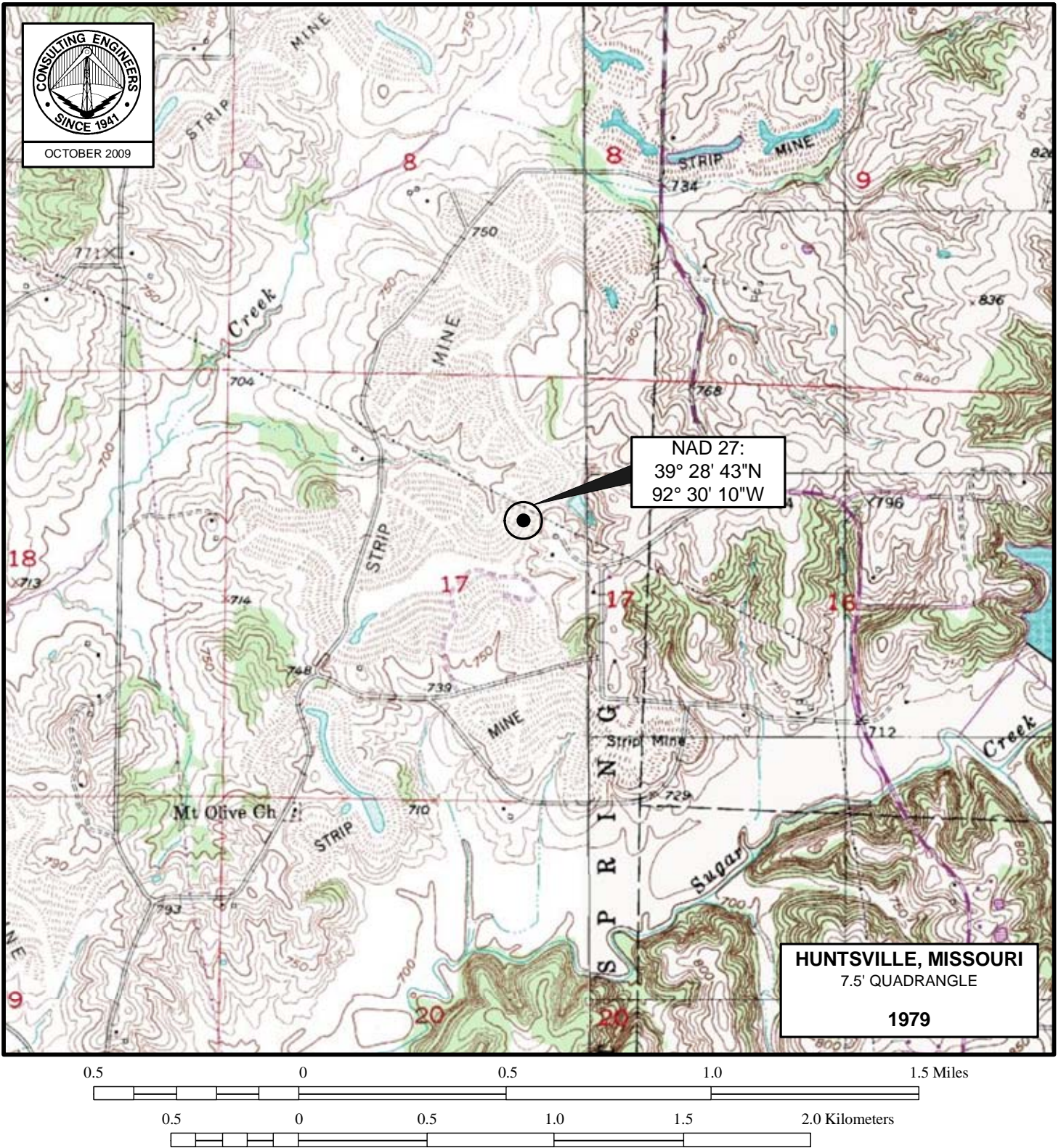


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October 13, 2009

Figure 1



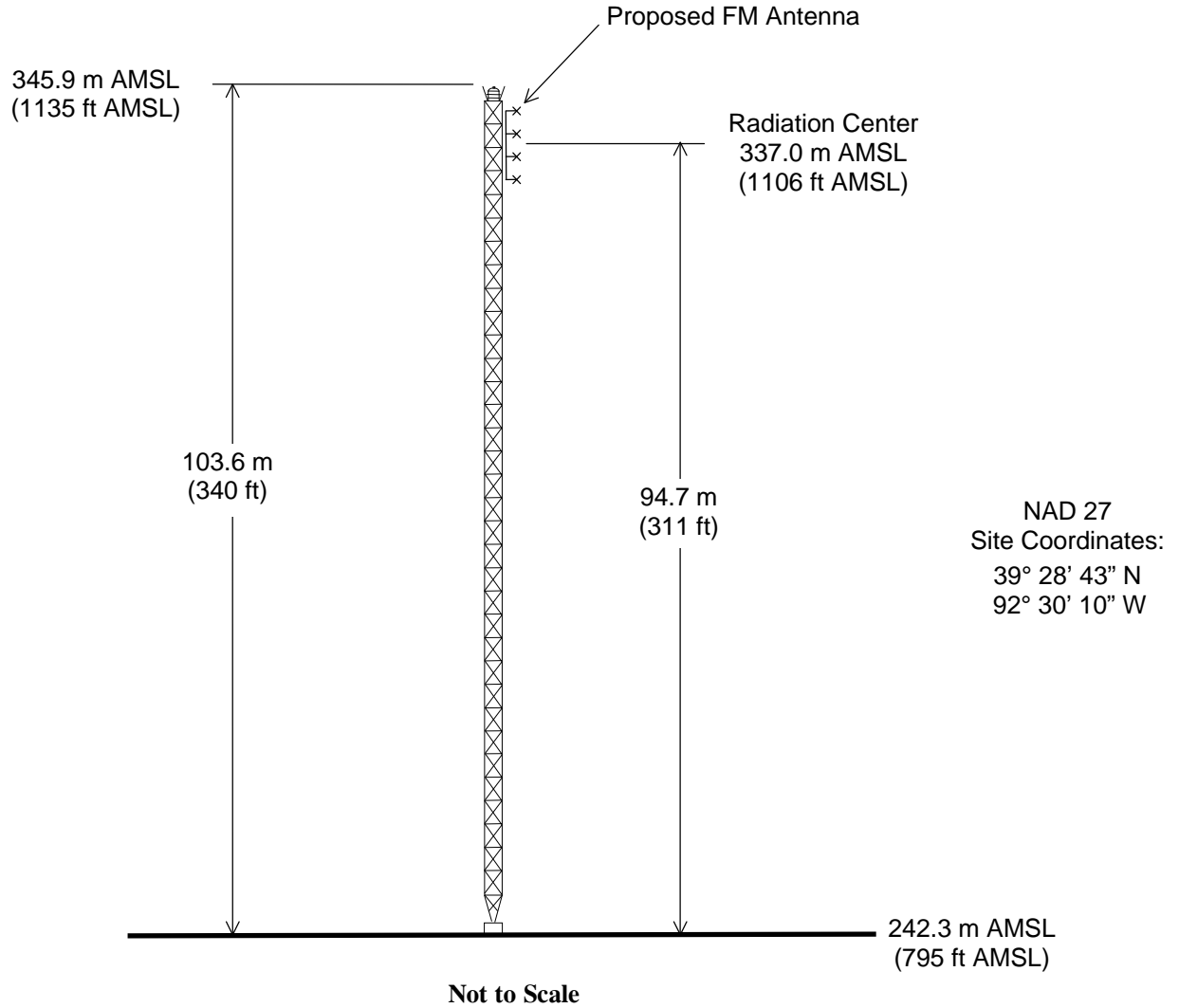
PROPOSED TRANSMITTER SITE

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du Treil, Lundin & Rackley, Inc Sarasota, Florida

Figure 2

(FAA being applied for)



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

NEW FM STATION

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

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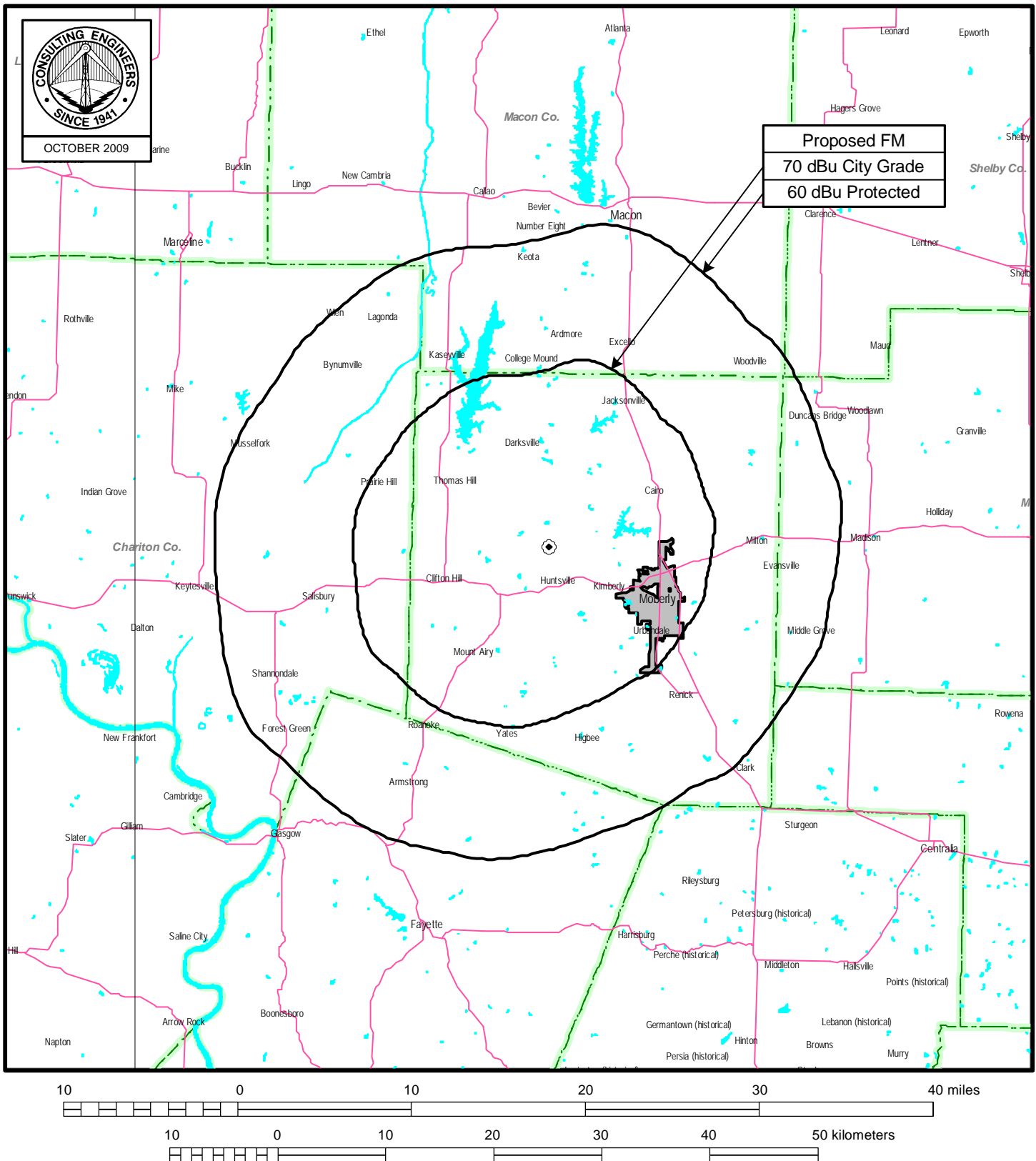
MOBERLY, MO FM SEPARATION STUDY

Channel: 223
Class: A

Coordinates: 039-28-43 092-30-10 (NAD 27)
Buffer Distance: 25 km

Callsign	Status	Chan.	Serv.	Freq.	City		State	Latitude	Dist.(km)	Sep.(km)	Spacing(km)
Fac. ID	ARN			Class	DA Ant. ID	ERP(kW)	HAAT(m)	Longitude	Bear.(deg)	73.215	Comment
KMFC 65547	CP	221	FM	92.1	CENTRALIA		MO	039-09-58	45.33	42	3.33
	BPH	20070119	AGL	C3	N	16	122	092-09-52	139.95	36 Y	CLOSE
KMFC 65547	LIC	221	FM	92.1	CENTRALIA		MO	039-09-58	45.33	31	14.33
	BLH	20030829	AWT	A	N	3.9	122	092-09-52	139.95	25 N	CLEAR
KTNN-FM 39166	LIC	222	FM	92.3	TRENTON		MO	040-05-00	112.63	89	23.63
	BLH	19970210	KA	C3	N	18.5	116	093-33-30	307.04	72 N	CLEAR
183331	APP	223	FM	92.5	MOBERLY		MO	039-27-49	4.7	115	-110.3
	BSFH	20090625	ADI	A				092-33-14	249.2	92	SHORT
	VAC	223	FR	92.5	MOBERLY		MO	039-27-49	4.7	115	-110.3
	RM coord-2			A				092-33-14	249.2	92	SHORT
	VAC	223	FA	92.5	MOBERLY		MO	039-25-06	8.71	115	-106.29
	RM 10275			A				092-26-17	140.32	92	SHORT
KAYX 6508	APP	223	FM	92.5	RICHMOND		MO	039-11-14	119.27	115	4.27
	BSTA	20080125	ADE	A		0.75	76	093-50-03	254.62	92 N	CLOSE
KAYX 6508	LIC	223	FM	92.5	RICHMOND		MO	039-11-14	119.27	115	4.27
	BMLH	20080222	ACG	A	N	2.35	163	093-50-03	254.62	92 N	CLOSE
KLOZ 8676	LIC	224	FM	92.7	ELDON		MO	038-20-27	126.55	106	20.55
	BLH	19890828	KE	C2	N	31	189	092-35-33	183.54	89 N	CLEAR
KGRC 62332	LIC	225	FM	92.9	HANNIBAL		MO	039-43-48	98.31	75	23.31
	BLH	20001218	AAF	C1	N	100	153	091-24-19	73.09	69 N	CLEAR
KWJK 86486	LIC	226	FM	93.1	BOONVILLE		MO	038-56-31	59.91	42	17.91
	BLH	20070516	ABI	C3	N	7.2	126	092-34-32	186.02	36 Y	CLEAR

Figure 4



PREDICTED COVERAGE CONTOURS

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