

TECHNICAL EXHIBIT
APPLICATION FOR DTV CONSTRUCTION PERMIT
IN SUPPORT OF ITS POST-TRANSITION FACILITY
STATION KEJB-DT (FACILITY ID 84164)
EL DORADO, ARKANSAS

MARCH 3, 2008

CH 43 206 KW (MAX-DA) 530 M

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Technical Narrative

This Technical Exhibit supports an application to “flash-cut” to digital operation for television station KEJB at El Dorado, Arkansas. This application requests a construction permit (CP) for a digital television operation on channel 43, using its existing analog directional antenna. Thus, KEJB-DT is requesting processing under the “5 mile waiver” procedure to allow recovery of its noise-limited service up to the Grade B contour.

Proposed Facilities

Station KEJB-DT proposes to operate DTV channel 43 from its analog transmitter site and antenna, with a maximum directional effective radiated power (ERP) of 206 kilowatts and antenna height above average terrain (HAAT) of 530 meters (same as analog HAAT). The transmitter site coordinates are:

33° 04' 41" North Latitude
92° 13' 41" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1. Figure 2 depicts the proposed antenna patterns.

Figure 3 is a map showing the DTV predicted coverage contour and the associated analog Grade B coverage contour. The extent of the contour has been calculated

using the normal FCC prediction method. The El Dorado city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

Population Served

The herein proposed KEJB-DT facility is predicted to serve 459,769 persons, post-transition, based upon the 2000 Census. KEJB-DT's associated Appendix B facility is predicted to serve 446,485 persons. Therefore, the herein proposed KEJB-DT facility would serve more than 100% of KEJB-DT's Appendix B population.

Allocation Considerations

Since the proposed KEJB-DT ERP exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions¹, an allocation study was completed to ensure no prohibited interference would occur. The proposed KEJB-DT operation meets the FCC's post-transition interference standards to pertinent Class A and DTV allotments using the procedures outlined in the FCC's OET-69 Bulletin and a 2 kilometer grid cell size. The results of the interference analyses are summarized in Figure 4.

Radiofrequency Electromagnetic Field Exposure

The proposed KEJB-DT facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 520 meters above ground level with a maximum ERP of 206 kW. A conservative relative field value of 0.1 was assumed for the calculation (see Figure 2). The calculated power density at a point 2 meters above ground level will not exceed 0.0003 mW/cm². This is less than 5% of the FCC's recommended limit of 0.43 mW/cm² for channel 43 for an "uncontrolled" environment.

¹ See Seventh Report And Order And Eighth Further Notice Of Proposed Rule Making in the Matter of Advanced Television Systems and their Impact Upon the Existing Television Broadcast Service, MB Docket 87-268, Released August 6, 2007; Adopted August 1, 2007.

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 KEJB-DT 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.



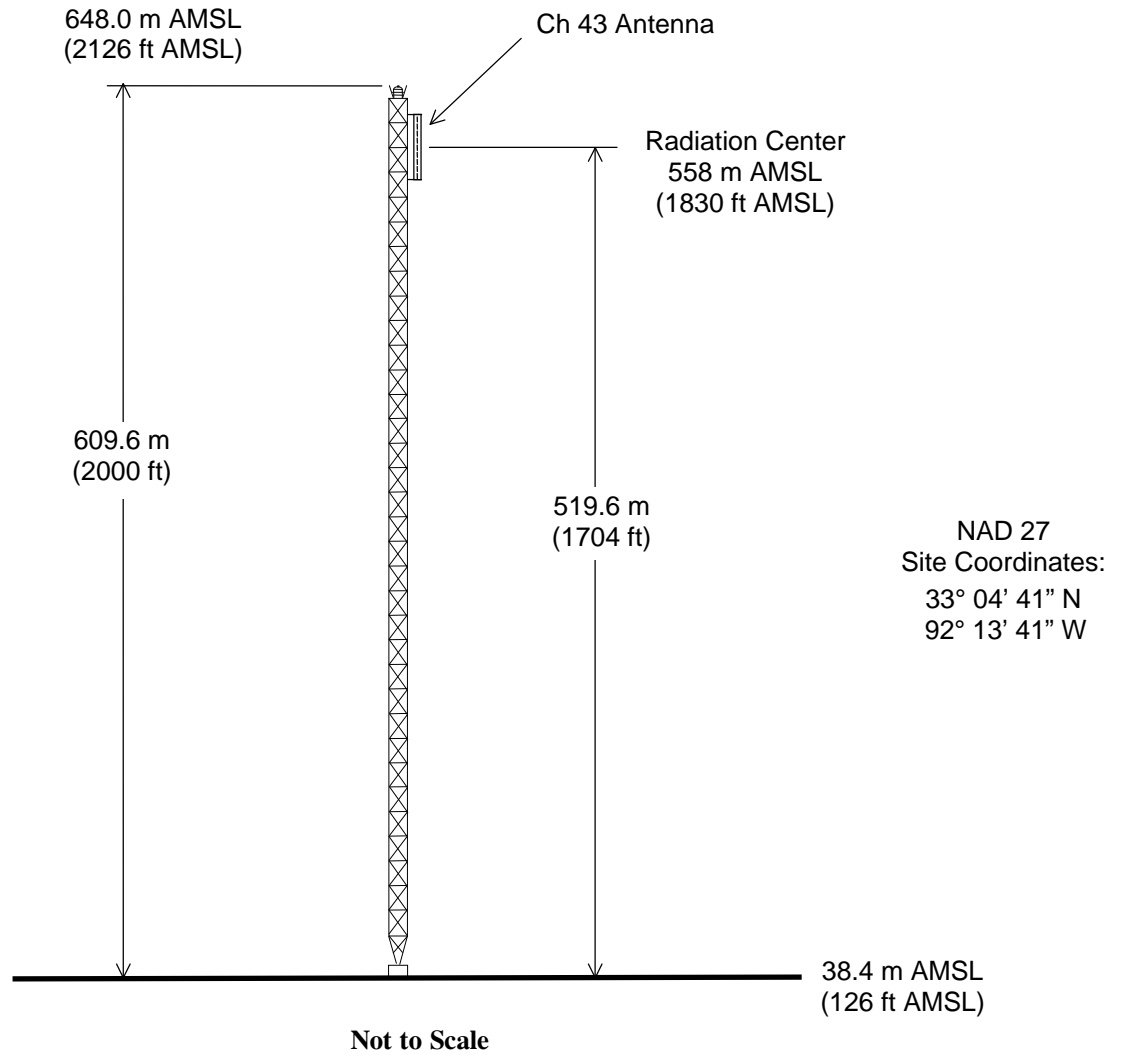
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March 3, 2008



Registration No. 1039950



ANTENNA AND SUPPORTING STRUCTURE

STATION KEJB-DT

EL DORADO, ARKANSAS

CH 43 206 KW (MAX-DA) 530 M

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



Figure 2

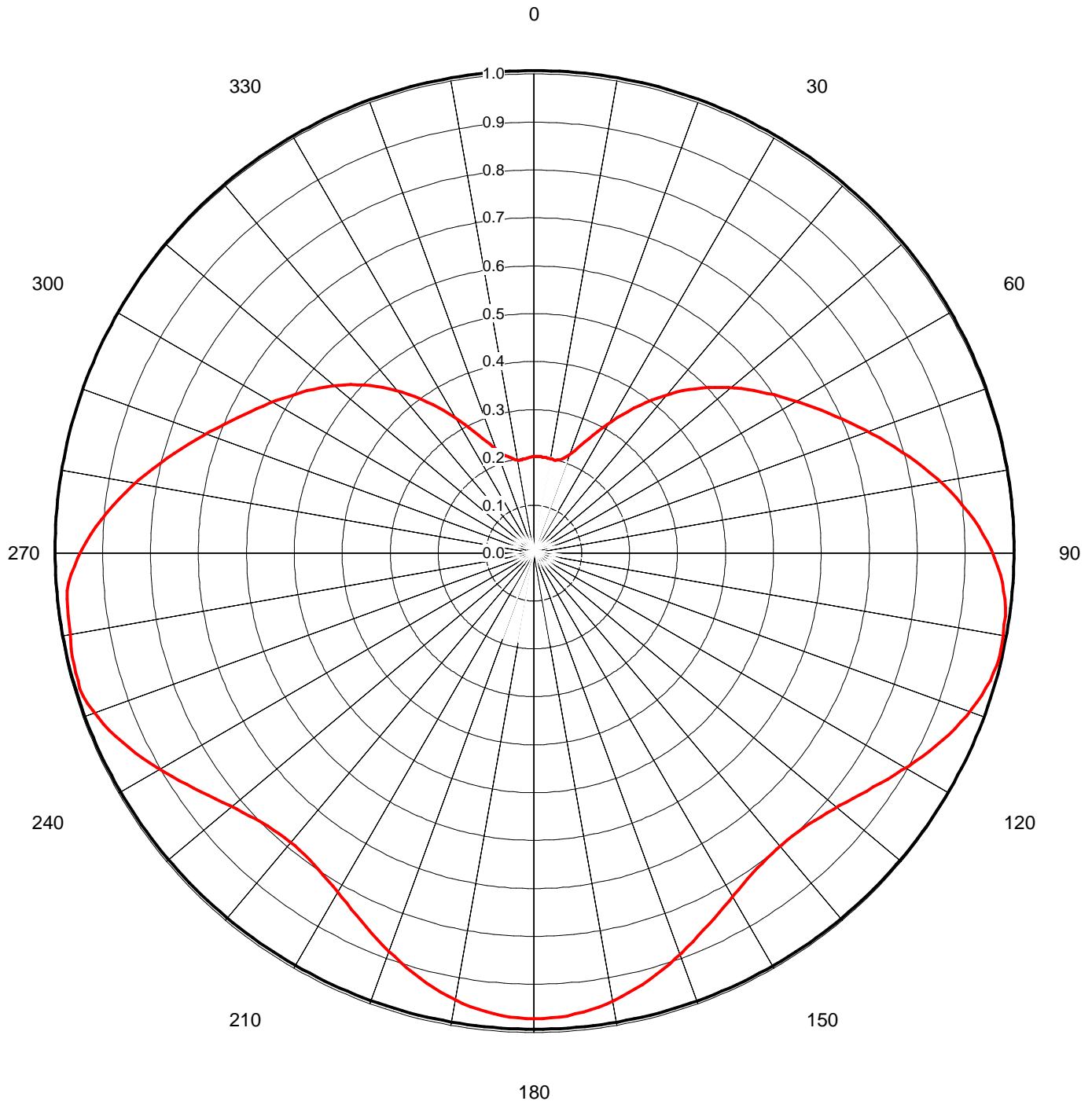
Proposal Number **1177:3:111323**
Date **5-May-03**
Call Letters
Location **El Dorado, AR**
Customer
Antenna Type **TFU-33JSC-R 3C180**

Channel **43**

AZIMUTH PATTERN

Gain **1.80** **(2.55 dB)**
Calculated / Measured **Calculated**

Frequency **647.00 MHz**
Drawing # **TFU-3C180-43**





Proposal Number **1177:3:111323**
Date **5-May-03**
Call Letters
Location **El Dorado, AR**
Customer
Antenna Type **TFU-33JSC-R 3C180**

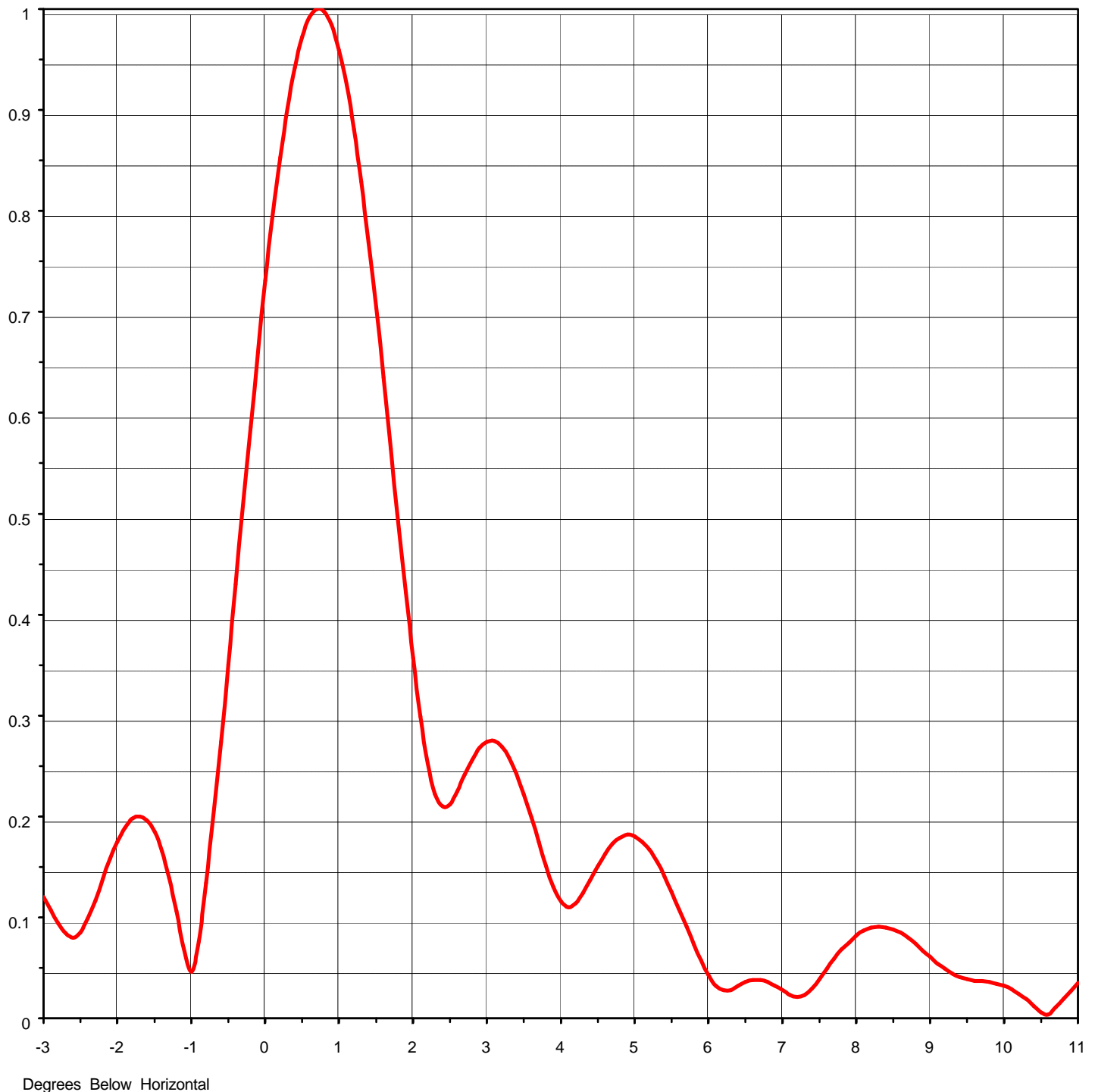
Figure 2

Channel **43**

ELEVATION PATTERN

RMS Gain at Main Lobe **33.00 (15.19 dB)**
RMS Gain at Horizontal **17.60 (12.46 dB)**
Calculated / Measured **Calculated**

Beam Tilt **0.75 deg**
Frequency **647.00 MHz**
Drawing # **33Y330075**





Proposal Number **1177:3:111323**
Date **5-May-03**
Call Letters
Location **El Dorado, AR**
Customer
Antenna Type **TFU-33JSC-R 3C180**

Figure 2
Channel **43**

ELEVATION PATTERN

RMS Gain at Main Lobe **33.00 (15.19 dB)**
RMS Gain at Horizontal **17.60 (12.46 dB)**
Calculated / Measured **Calculated**

Beam Tilt **0.75 deg**
Frequency **647.00 MHz**
Drawing # **33Y330075-90**

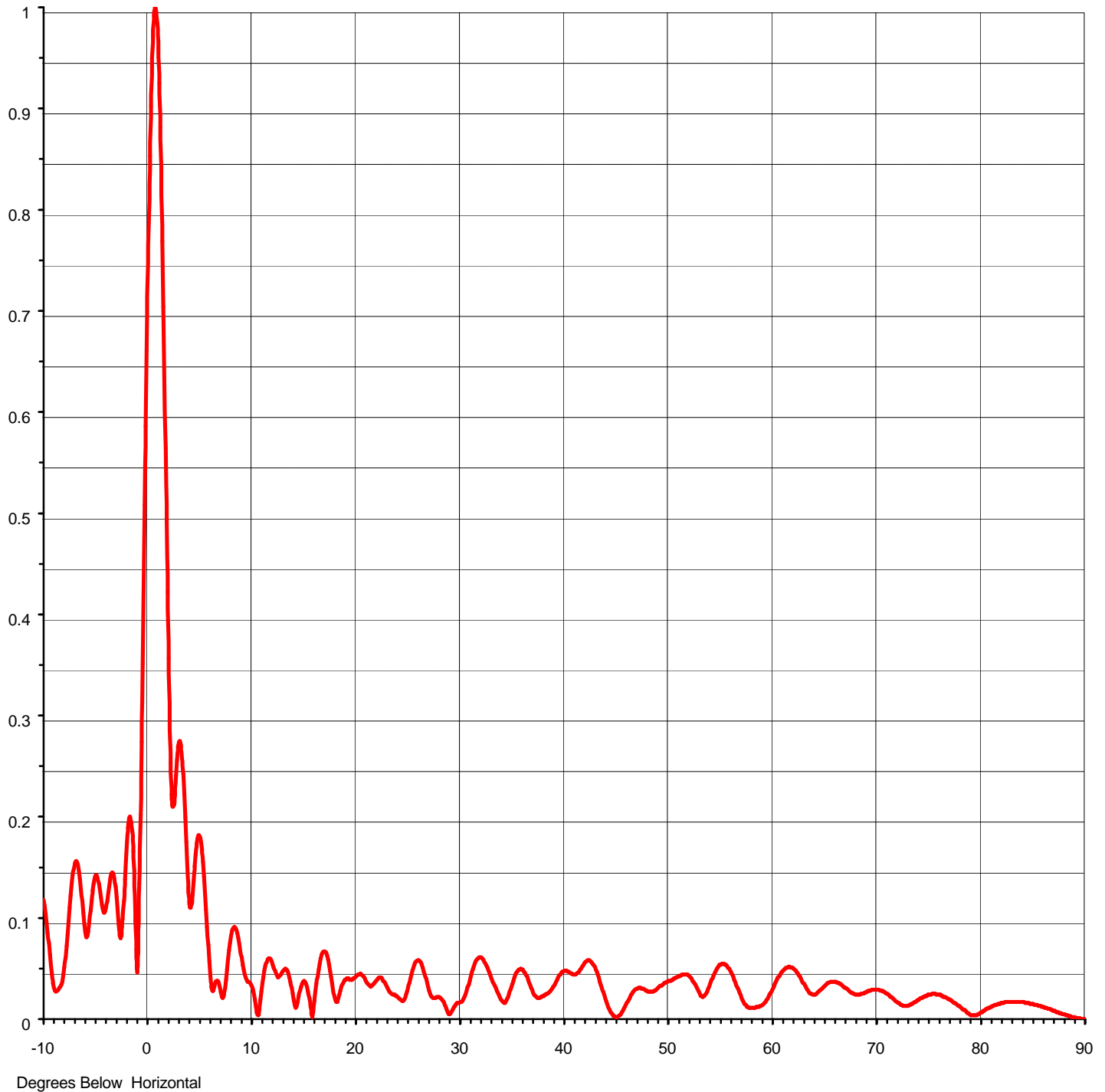
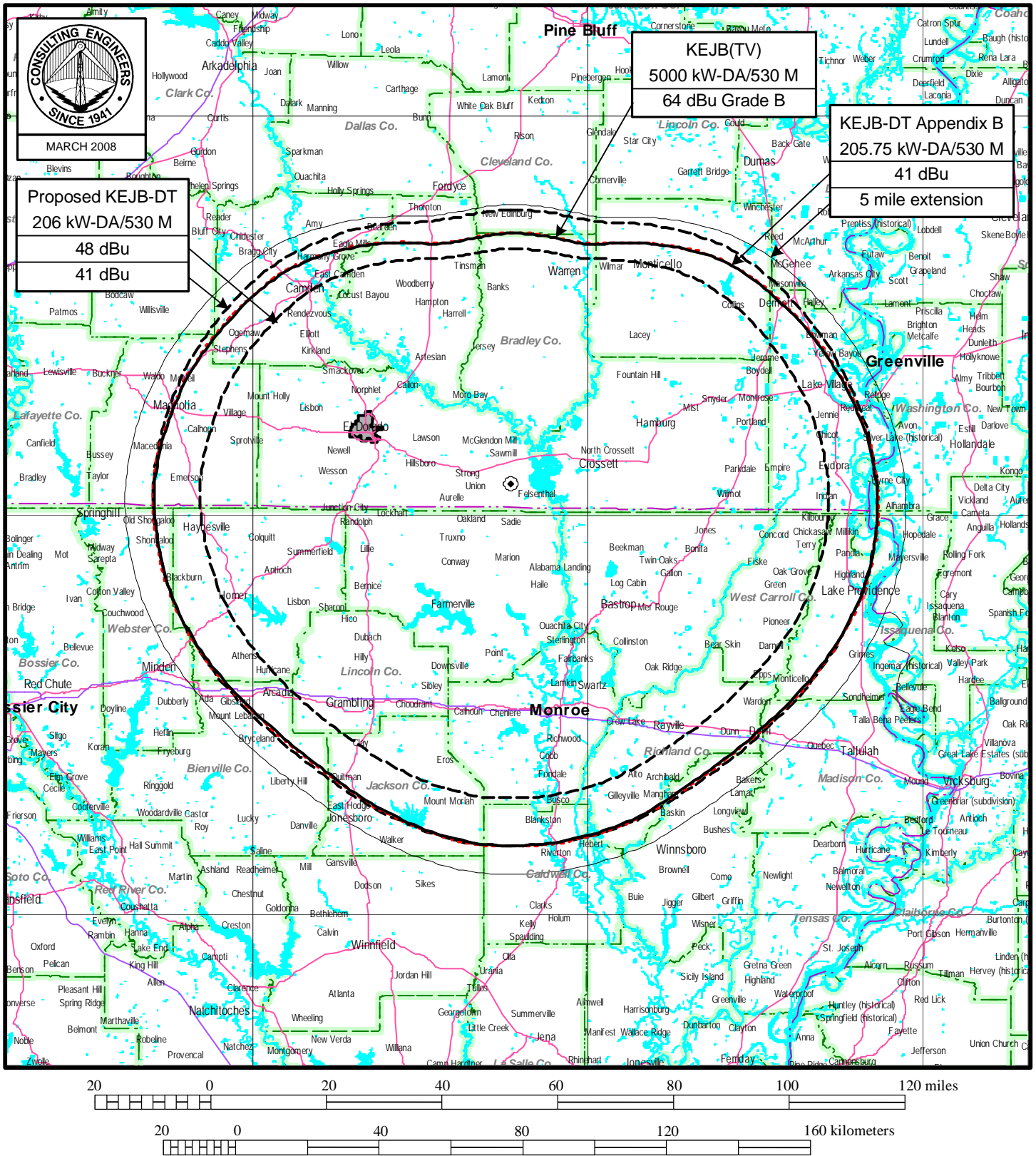


Figure 3



PREDICTED COVERAGE CONTOURS

STATION KEJB-DT

EL DORADO, ARKANSAS

CH 43 206 kW (MAX-DA) 530

du Treil, Lundin & Rackley, Inc Sarasota, Florida

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
Census data selected 2000

Post Transition Data Base Selected
/export/home/cdb/tvdb.sff_G
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-03-2008 Time: 11:55:53
Record Selected for Analysis

KEJB USERRECORD-01 EL DORADO AR US
Channel 43 ERP 206. kW HAAT 527. m RCAMSL 00558 m
Latitude 033-04-41 Longitude 0092-13-41
Status APP Zone 2 Border
Dir Antenna Make CDB Model 00000000066208 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket

Cell Size for Service Analysis 2.0 km/side
Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	7.833	533.5	76.4
45.0	46.186	536.9	89.9
90.0	187.091	537.8	101.7
135.0	137.334	532.6	98.6
180.0	197.036	523.6	101.1
225.0	135.825	516.0	97.2
270.0	183.574	516.4	99.9
315.0	47.859	519.9	89.1

Evaluation toward Class A Stations
No Spacing violations or contour overlap to Class A stations
Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations
Proposed facility OK toward West Virginia quite zone
Proposed facility OK toward Table Mountain
Proposed facility is beyond the Canadian coordination distance
Proposed facility is beyond the Mexican coordination distance
Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Call	City/State	ARN
43	KEJB	EL DORADO AR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WDSU	NEW ORLEANS LA	408.8	CP	BDTV	-00000266
43	WMAA	COLUMBUS MS	338.3	CP MOD	BMPEDT	-20020611ABI
44	KWBF	LITTLE ROCK AR	192.5	CP	BPCDT	-20030418ABA
44	KSHV	SHREVEPORT LA	165.6	CP	BPCDT	-19991027ADK

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WDSU	NEW ORLEANS LA	BDTV	-00000266

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
42	WHMM-DT	HAMMOND LA	3.5	CP	BPCDT	-19960920LW

43 KEJB EL DORADO AR 408.8 APP USERRECORD-01
Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
43	WMAA	COLUMBUS MS	BMPEDT -20020611ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	WUPA	ATLANTA GA	400.7	LIC	BLCDT -20020702AAJ
43	WBBJ-TV	JACKSON TN	199.6	CP	BDTV -00000267
44	WMAW-TV	MERIDIAN MS	192.9	CP	BPEDT -20000501AHT
43	KEJB	EL DORADO AR	338.3	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
44	KWBF	LITTLE ROCK AR	BPCDT -20030418ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
44	KSHV	SHREVEPORT LA	271.5	CP	BPCDT -19991027ADK
44	KYTV	SPRINGFIELD MO	266.9	CP	BDTV -00000273
43	KEJB	EL DORADO AR	192.5	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
44	KSHV	SHREVEPORT LA	BPCDT -19991027ADK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
44	KWBF	LITTLE ROCK AR	271.5	CP	BPCDT -20030418ABA
44	KZJL	HOUSTON TX	376.2	CP MOD	BMPEDT -20041101AFY
44	KWKT	WACO TX	353.4	CP	BDTV -00000279
43	KEJB	EL DORADO AR	165.6	APP	USERRECORD-01

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 4

Before Analysis

Results for: 44A LA SHREVEPORT BPCDT 19991027ADK CP
HAAT 505.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	890548	30744.3
not affected by terrain losses	889865	30676.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1109	212.9
lost to ATV IX only	1109	212.9
lost to all IX	1109	212.9

Potential Interfering Stations Included in above Scenario 1

44A AR LITTLE ROCK	BPCDT	20030418ABA	CP
44A TX HOUSTON	BMPCDT	20041101AFY	CP
43A AR EL DORADO	BLCT	20031014ACF	LIC

After Analysis

Results for: 44A LA SHREVEPORT BPCDT 19991027ADK CP
HAAT 505.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	890548	30744.3
not affected by terrain losses	889865	30676.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1109	212.9
lost to ATV IX only	1109	212.9
lost to all IX	1109	212.9

Potential Interfering Stations Included in above Scenario 1

44A AR LITTLE ROCK	BPCDT	20030418ABA	CP
44A TX HOUSTON	BMPCDT	20041101AFY	CP
43A AR EL DORADO	USERRECORD01		APP

Percent new IX = 0.0000%
Worst case new IX 0.0000% Scenario 1

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
43	KEJB	EL DORADO AR	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	WDSU	NEW ORLEANS LA	408.8	CP	BDTV -00000266
43	WMAA	COLUMBUS MS	338.3	CP MOD	BMPEDT -20020611ABI
44	KWBF	LITTLE ROCK AR	192.5	CP	BPCDT -20030418ABA
44	KSHV	SHREVEPORT LA	165.6	CP	BPCDT -19991027ADK

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 5
Before Analysis

Results for: 43A AR EL DORADO USERRECORD01 APP
HAAT 527.0 m, ATV ERP 206.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	460453	27491.6
not affected by terrain losses	460128	27475.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	359	120.1
lost to ATV IX only	359	120.1
lost to all IX	359	120.1

Potential Interfering Stations Included in above Scenario 1

44A LA SHREVEPORT BPCDT 19991027ADK CP

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED