

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of INSPIRATION TELEVISION, INC., licensee of Low Power Television Station K44IA, Channel 44 in Medford, Oregon, in support of this amendment to its Application for Construction Permit BDISDTL-20090625ACK, which proposes digital operation on Channel 43 from the licensed K44IA site as a displacement filing. The purpose of this amendment is to reduce the proposed effective radiated power from 15 kw to 5.0 kw and specify a directional antenna in order to resolve an interference issue.

It is proposed to mount a standard MCI directional antenna at the 97-meter level of the existing 123-meter communications tower on which the present K44IA antenna is mounted. Exhibit B is a map upon which the revised service contours are plotted. It is important to note that the newly proposed 51 dBu contour encompasses a significant portion of the Grade A contour that obtains from the licensed K44IA facility. Operating parameters for the proposed facility are tabulated in Exhibit C. A new interference study is provided in Exhibit D, and a power density calculation follows as Exhibit E.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1031021 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

August 11, 2009

CONTOUR POPULATION
51 DBU : 138,491
41 DBU : 179,097

Smith and Fisher

Endale

41 DBU

51 DBU

Shady Cove

Butte Falls

Grants Pass

Rogue River

Gold Hill

Eagle Point

White City

Jackson

Central Point

Jacksonville

Medford

KDOV-LD

Phoenix

Talent

Ashland

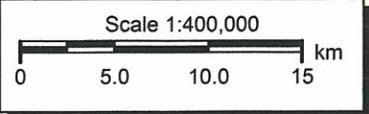


EXHIBIT B

PROPOSED OPERATING PARAMETERS

PROPOSED K44IA
CHANNEL 43 – MEDFORD, OREGON
[AMENDMENT TO BDISDTL-20090625ACK]

Transmitter Power Output:	0.47 kw
Transmission Line Efficiency:	64.2%
Antenna Power Gain – Toward Horizon:	16.5
Antenna Power Gain – Main Lobe:	16.5
Effective Radiated Power – Toward Horizon:	5.0 kw
Effective Radiated Power – Main Lobe:	5.0 kw
Transmitter Make and Model:	Type-accepted
Rated Power:	500 watts
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	350 feet*
Antenna Make and Model:	MCI 955312
Orientation	270° T
Beam Tilt	none
Radiation Center Above Ground:	97 meters
Radiation Center Above Mean Sea Level:	574 meters

*estimated

LONGLEY-RICE INTERFERENCE STUDY
PROPOSED K44IA
CHANNEL 43 – MEDFORD, OREGON
[AMENDMENT TO BDISDTL-20090625ACK]

We conducted a detailed interference study (a V-Soft SunDTV study) using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to all facilities of concern. The software utilizes a 1-square kilometer cell size, calculates signal strength at 0.1-kilometer increments along each radial studied, and employs the 2000 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than that proposed herein) already is predicted to exist (also known as "masking"). A summary of the results of this study is provided in Exhibit D-2. It concludes that the proposed digital operation of K44IA on Channel 43 causes no significant new interference to any of the potentially affected analog or digital full-power or low-power television stations.

As a result, it is believed that the proposed facility complies with the requirements of Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030 of the Commission's Rules.

Summary Study

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-11-2009 Time: 06:59:48

Record Selected for Analysis

KDOV-LP- USERRECORD-01 ELCENTRO-HOLTSVILLE CA US
 Channel 43 ERP 5. kW HAAT 50. m RCAMSL 00574 m STRINGENT MASK
 Latitude 042-17-44 Longitude 0122-48-15
 Status APP Zone 1 Border
 Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth
 270.
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 0.10 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	5.000	49.4	29.5
45.0	1.090	33.0	17.8
90.0	0.000	33.0	2.7
135.0	0.000	33.0	2.7
180.0	0.000	33.0	2.7
225.0	1.090	33.0	17.8
270.0	5.000	33.0	24.9
315.0	4.068	166.5	41.1

Contour Overlap to Proposed Station

Station
 K43BJ 43 RUCH & APPELEGATE OR BLTT19880406IO

Station inside contour of Digital LPTV station
 KDOV-LP- 43 ELCENTRO-HOLTSVILLE CA USERRECORD01

Station
 KDOV-LP 44 MEDFORD OR BLTTL20080812ABO

Station inside contour of Digital LPTV station

KDOV-LP- 43 ELCENTRO-HOLTSVILLE CA USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet 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 0.00km from AM station
 PHOENIX OR KAPL Status: L Antenna: DAN
 Proposed station is 0.00km from AM station
 PHOENIX OR KAPL Status: L Antenna: DAN
 Proposed station is 1.14km from AM station
 MEDFORD OR NEW Status: Antenna: DAN
 Proposed station is 0.00km from AM station
 JACKSONVILLE OR NEW Status: Antenna: DA2
 Proposed station is 0.00km from AM station
 JACKSONVILLE OR NEW Status: Antenna: DA2
 Proposed station is 0.00km from AM station
 MEDFORD OR NEW Status: Antenna: DAN
 Proposed station is 0.00km from AM station
 JACKSONVILLE OR NEW Status: Antenna: DA2
 Proposed station is 0.00km from AM station
 MEDFORD OR NEW Status: Antenna: DAN

Start of Interference Analysis

		Proposed Station		
Channel	Call	City/State	ARN	
43	KDOV-LP-	ELCENTRO-HOLTSVILLE CA	USERRECORD01	

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
42	KQSX-LP	CAL - OREGON CA	118.9	CP	BPTTL	-
20090123	ACS					
42	KQSX-LP	CAL - OREGON CA	115.4	LIC	BLTTL	-
20070730	ABL					
42	KQSX-LP	REDDING CA	115.4	CP	BDFCDTL	-
20061206	AFH					
42	K42HK-D	COTTAGE GROVE OR	165.9	LIC	BLDTT	-
20090330	AAM					
42	K42HK-D	COTTAGE GROVE OR	165.8	CP	BDISTT	-
20051122	AEY					
42	KSYS	JACKSONVILLE OR	4.5	CP	BDRTET	-

20090108AGB							
42	K69AM	POWERS OR	125.0	CP	BDISDTT	-	
20090211ADL							
43	KHSL-TV	CHICO CA	275.4	LIC	BLCDDT	-	
20060315AEZ							
43	KHSL-TV	CHICO CA	275.4	CP	BPCDDT	-	
20070124AKD							
43	K09VQ	CRESCENT CITY CA	119.7	APP	BDISDTT	-	
20090728AFH							
43	NEW	EUREKA CA	199.4	APP	BSFDDL	-	
20060630BBA							
43	NEW	EUREKA CA	235.2	APP	BSFDDL	-	
20060630BQG							
43	K69IE	EUREKA CA	199.5	CP MOD	BMPDDL	-	
20081031AAM							
43	K43AF	UKIAH CA	354.1	LIC	BLTT	-	
19830125IL							
43	KELM-LP	RENO NV	393.1	LIC	BLTTL	-	
19901030IJ							
43	KUBN-LP	BEND OR	258.0	CP	BDISTTL	-	
20060822AIL							
43	K43IH	BURNS OR	331.0	LIC	BLTT	-	
20060526ALB							
43	K43DI	CANYONVILLE, ETC. OR	78.0	LIC	BLTTL	-	
19950524IC							
43	K60DQ	FLORENCE OR	211.5	CP	BDISTT	-	
20051128ALH							
43	K60DQ	FLORENCE OR	211.5	CP	BDFCDDT	-	
20090202CCR							
43	K59FS	LONDON SPRINGS OR	150.9	CP	BDISDTT	-	
20081105ADN							
43	K59FS	LONDON SPRINGS OR	150.8	CP	BDISTT	-	
20051121APF							
43	KATU	PORTLAND OR	358.0	LIC	BLCDDT	-	
20050407KXN							
43	K43BJ	RUCH & APPELLEGATE OR	20.1	LIC	BLTT	-	
19880406IO							
43	K43EJ	TILLAMOOK OR	333.2	LIC	BLTT	-	
19940610IK							
44	K44JF-D	CRESCENT CITY CA	119.7	APP	BPDDT	-	
20090728AFI							
44	K44JF-D	CRESCENT CITY CA	119.6	CP	BNPDTT	-	
20000831CFK							
44	K44JF-D	CRESCENT CITY CA	119.7	LIC	BLDTL	-	
20081009AEX							
44	NEW	YREKA CA	78.6	APP	BNPDTL	-	
20000828ARV							
44	NEW	YREKA CA	78.6	APP	BNPDTL	-	
20000828AGL							
44	K44FH	COOS BAY OR	169.4	LIC	BLTTL	-	
20090302AEL							
44	K18EA	COTTAGE GROVE OR	165.9	CP	BDISDTT	-	
20090210AEJ							
44	K44JB-D	GRANTS PASS OR	44.0	LIC	BLDTT	-	
20080206AAM							
44	K44DZ	KLAMATH FALLS OR	99.0	LIC	BLTT	-	
19970228JG							
44	KDOV-LP	MEDFORD OR	0.0	LIC	BLTTL	-	
20080812ABO							
45	K45DS	FRESHWATER, ETC. CA	199.7	LIC	BLTT	-	
19940303IH							

45	K45IV	REDDING CA	190.9	CP	BNPTTL	-
20000831	BYI					
46	K46HI	REDDING CA	183.9	LIC	BLTTL	-
20040329	ABN					
46	K46AS	COOS BAY OR	163.2	LIC	BLTT	-
19980911	JB					
46	K46IP-D	COTTAGE GROVE OR	165.8	CP	BDISTT	-
20051122	AGB					
46	K46CH	GOLD HILL OR	21.8	LIC	BLTT	-
19890525	II					
46	K53CU	ROSEBURG OR	111.0	APP	BSTA	-
20090805	ACN					
46	K53CU	ROSEBURG OR	111.1	APP	BDISTT	-
20090501	APM					
47	K47EH	EUREKA CA	199.7	LIC	BLTT	-
19961223	JA					
47	K47DV	SOUTH YREKA CA	65.1	LIC	BLTTL	-
19960205	JS					
47	K47AV	COTTAGE GROVE OR	165.8	LIC	BLTT	-
19860113	IE					
47	NEW	KLAMATH FALLS OR	86.7	APP	BNPTTL	-
20000810	AAN					
47	NEW	KLAMATH FALLS OR	88.0	APP	BNPTTL	-
20000802	ADV					
47	NEW	KLAMATH FALLS OR	83.6	APP	BNPTTL	-
20000828	AFD					
47	NEW	KLAMATH FALLS OR	85.6	APP	BNPTTL	-
20000807	AAJ					
47	NEW	KLAMATH FALLS OR	83.6	APP	BNPTTL	-
20000828	AYR					
47	K47KH	PORT ORFORD OR	147.7	LIC	BLTT	-
20090618	ABL					
47	K47HT	ROSEBURG OR	111.3	LIC	BLTTL	-
20030129	ALF					
50	K50GP	REDDING CA	190.6	LIC	BLTT	-
20010910	AAB					
50	K50CT	COTTAGE GROVE OR	165.8	LIC	BLTT	-
19920818	JE					
50	K55CM	GOLD BEACH OR	133.3	CP	BDISTT	-
20060315	ACC					
50	K50FW	GRANTS PASS OR	41.3	LIC	BLTTL	-
20070205	ACY					
50	NEW	KLAMATH FALLS OR	86.7	APP	BNPTTL	-
20000810	AAO					
50	NEW	KLAMATH FALLS OR	83.6	APP	BNPTTL	-
20000828	AHI					
50	NEW	KLAMATH FALLS OR	99.0	APP	BNPTTL	-
20000831	BRM					
50	NEW	KLAMATH FALLS OR	83.6	APP	BNPTTL	-
20000828	AGD					
50	NEW	KLAMATH FALLS OR	85.6	APP	BNPTTL	-
20000807	AEC					
51	K51BV	CAVE JUNCTION, ETC. OR	70.7	LIC	BLTT	-
19880406	IN					
51	KMOR-LP	EUGENE OR	191.4	LIC	BLTTL	-
19930204	IC					
51	K51EY	LONDON SPRINGS OR	150.8	LIC	BLTT	-
19960415	IE					
51	K51GJ	ROSEBURG OR	111.3	LIC	BLTT	-
20040721	AMT					

Study of this proposal found the following interference problem(s):

NONE.

POWER DENSITY CALCULATION

PROPOSED K44IA
CHANNEL 43 – MEDFORD, OREGON
[AMENDMENT TO BDISDTL-20090625ACK]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Medford facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 5.0 kw, an antenna radiation center 97 meters above ground, and the vertical pattern of the MCI antenna, maximum power density two meters above ground of 0.00023 mw/cm^2 is calculated to occur 89 meters northwest of the base of the tower. Since this is less than 0.1 percent of the 0.43 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 43 (644-650 MHz), this proposal may be excluded from consideration with respect to public exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.