

ENGINEERING STATEMENT PREPARED BY RYAN WILHOUR OF THE FIRM  
KESSLER AND GEHMAN ASSOCIATES, INC., CONSULTING ENGINEERS IN  
CONNECTION WITH A REQUEST FOR SPECIAL TEMPORARY AUTHORIZATION  
TO OPERATE A POST-TRANSITION CHANNEL FACILITY PRIOR TO THE  
JUNE 12, 2009 FINAL TRANSITION MANDATE  
**KMVT-DT  
TWIN FALLS, IDAHO**

DISCUSSION

Neuhoff Family Limited Partnership (“NFLP”) is the licensee of KMVT which is licensed to operate its analog facility on channel 11 (FCC File No.: BLCT-1257), and its digital facility on channel 16 via an STA (FCC File No.: BDSTA-20030425ACY). The Commission has allotted and subsequently issued KMVT a replication post-transition construction permit to operate using digital emissions on its analog channel (FCC File No.: BMPCDT-20080314ABL) using an ERP of 13.6kW. The replication permit was later modified and permitted for maximized facilities (FCC File No.: BMPCDT-20080619AFV) using an ERP of 132 kW.

The instant STA is being filed pursuant to the Commission’s February 5, 2009 Public Notice<sup>1</sup> which authorizes the termination of analog service between February 17, 2009 and June 12, 2009 and operation of post transition digital facilities by means of an STA. It is the intent of NFLP to operate using an ERP of 19.6 kW which falls between the ranges of the permitted and previously permitted construction permit facilities, where all other technical parameters are held constant.

The proposed STA facility does not fully replicate the maximized post-transition permitted facility (FCC File No.: BMPCDT-20080619AFV ); however, it does fully replicate and encroach beyond the allotted Appendix B, the previously permitted digital facility (FCC File No.: BMPCDT-20080314ABL), and analog facility footprints as demonstrated in Exhibit E4. It should further be considered that a notice was filed with the Commission indicating that the analog facility is operating at 20% of the authorized power due to a failing analog transmitter and lack of replacement parts. In planning its conversion to digital-only operation, NFLP was reasonably relying on the fact that by law, analog termination would occur on February 17, 2009. Without the grant of the instant STA, NFLP would face the very real possibility of the analog transmitter that currently permits at best limited service completely failing prior to June 12, 2009 which would create a financial hardship in seeking a temporary replacement.

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<sup>1</sup> FCC 09-6 “FCC Announces Procedures Regarding Termination of Analog Television Service On or After February 17, 2009 Termination Notifications for February 17, 2009 Must Be Filed By Monday, February 9”

The proposed facility meets all the criteria for an STA in order to terminate analog service and operate a post-transition facility as stated in the above reference public notice. As per the STA requirements, Exhibit E5 demonstrates that the STA facility is not predicted to cause any interference to pre-transition analog or digital facilities and Exhibit E4 demonstrates that the proposed STA facility will completely encompass and even extend beyond the current analog and digital facilities thus no service area will be lost relative to facilities that are actually on-the-air.

### ATTACHED FIGURES

In carrying out the engineering studies the following attached figures were prepared:

1. Engineering Specifications (Exhibit E1)
2. Elevation drawing of the antenna system (Exhibit E2)
3. USGS 7.5 minute topographic quadrangle showing the proposed transmitter location and the coordinate lines (Exhibit E3)
4. Map showing the predicted DTV coverage contour relative to the allotted coverage contour. (Exhibit E4)
5. Allocation Analysis (Exhibit E5)
6. Environmental Impact/ RFR Hazard Analysis (Exhibit E6)

### ENVIRONMENTAL IMPACT/RFR HAZARD ANALYSIS

An analysis has been made of the human exposure to RFR using the calculation methodology described in OET Bulletin 65, Edition, 97-01. Exhibit E6 is a RFR study demonstrating compliance within 5% of the most restrictive permissible exposure at any location 2 meters above the ground. Exhibit E6 calculations were made using a frequency of 198 MHz, which is the lower edge of the proposed channel. To account for ground reflections, a coefficient of 1.6 was included in the calculations.

Pursuant to OET Bulletin 65 concerning multiple-user transmitter sites only those licenses whose transmitters produce power density levels greater than 5.0% of the exposure limit are considered significant contributors to RFR. Since the proposed operation is well within 5% of the most permissible exposure at any location 2 meters above the ground, it is not considered a significant contributor to RFR exposure. Thus, contributions to exposure from other RF sources in the vicinity of KMVT-DT were not taken into account. The instant proposal complies with the FCC limits for human exposure to RF radiation and thus is excluded from further environmental processing.

DECLARATION OF ENGINEER

The foregoing statement and the report regarding the aforementioned engineering work are true and correct to the best of my knowledge. Executed on February 9, 2008.



Ryan Wilhour

A handwritten signature in blue ink that reads 'Ryan Wilhour'. The signature is written in a cursive, flowing style.

Consulting Engineer

KMVT-DT

TWIN FALLS, IDAHO

ENGINEERING SPECIFICATIONS

A. Transmitter Site (NAD 27)

North Latitude 42 ° 43 ' 47 "  
West Longitude 114 ° 24 ' 52 "

Street Address or Location

On Flat Top Butte, 5 Miles East Of  
Jerome, ID

B. Proposed Facility  
DTV Channel

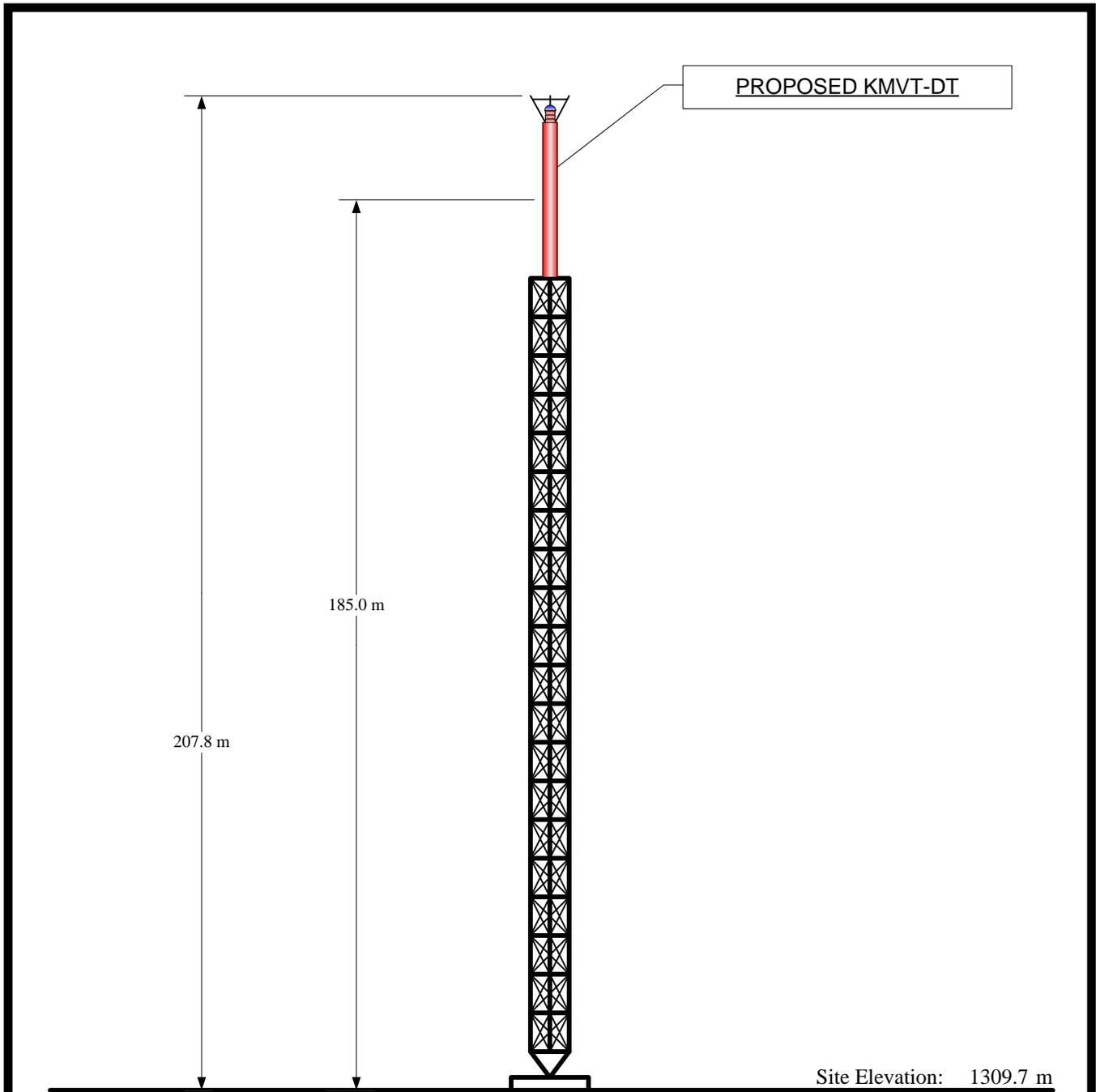
Number 11  
Frequency 198 - 204 MHz

C. Elevations

Height of Site Above Mean Sea Level (AMSL) 1309.7 m  
Overall Height of Structure Above Ground 207.8 m  
(including all appurtenances)  
Overall Height of Structure Above Mean Sea Level 1517.5 m  
(including all appurtenances)  
Effective Height of Antenna Above Ground 185.0 m  
Effective Height of Antenna Above Average Terrain 323.0 m  
Effective Height of Antenna Above Mean Sea Level 1497.7 m

D. Antenna Parameters – Horizontal Polarization

Maximum Effective Radiated Power 12.92 dBk  
In Beam Maximum 19.6 kW



Overall Height AGL:	207.8 m
Overall Height AMSL:	1517.5 m
Radiation Center AGL:	185.0 m
Radiation Center AMSL:	1494.7 m
Radiation Center HAAT:	323 m
Average Terrain:	1172 m

NAD 27 Coordinates:

N. Latitude: 42° 43' 48"

W. Longitude: 114° 24' 52"

FCC Tower Registration Number: 1040035

FAA Aeronautical Study Number: 98-ANM-0006-OE

NOTE: NOT TO SCALE

**KESSLER & GEHMAN**

TELECOMMUNICATIONS CONSULTING ENGINEERS  
507 N.W. 60th Street, Suite C  
Gainesville, Florida 32607

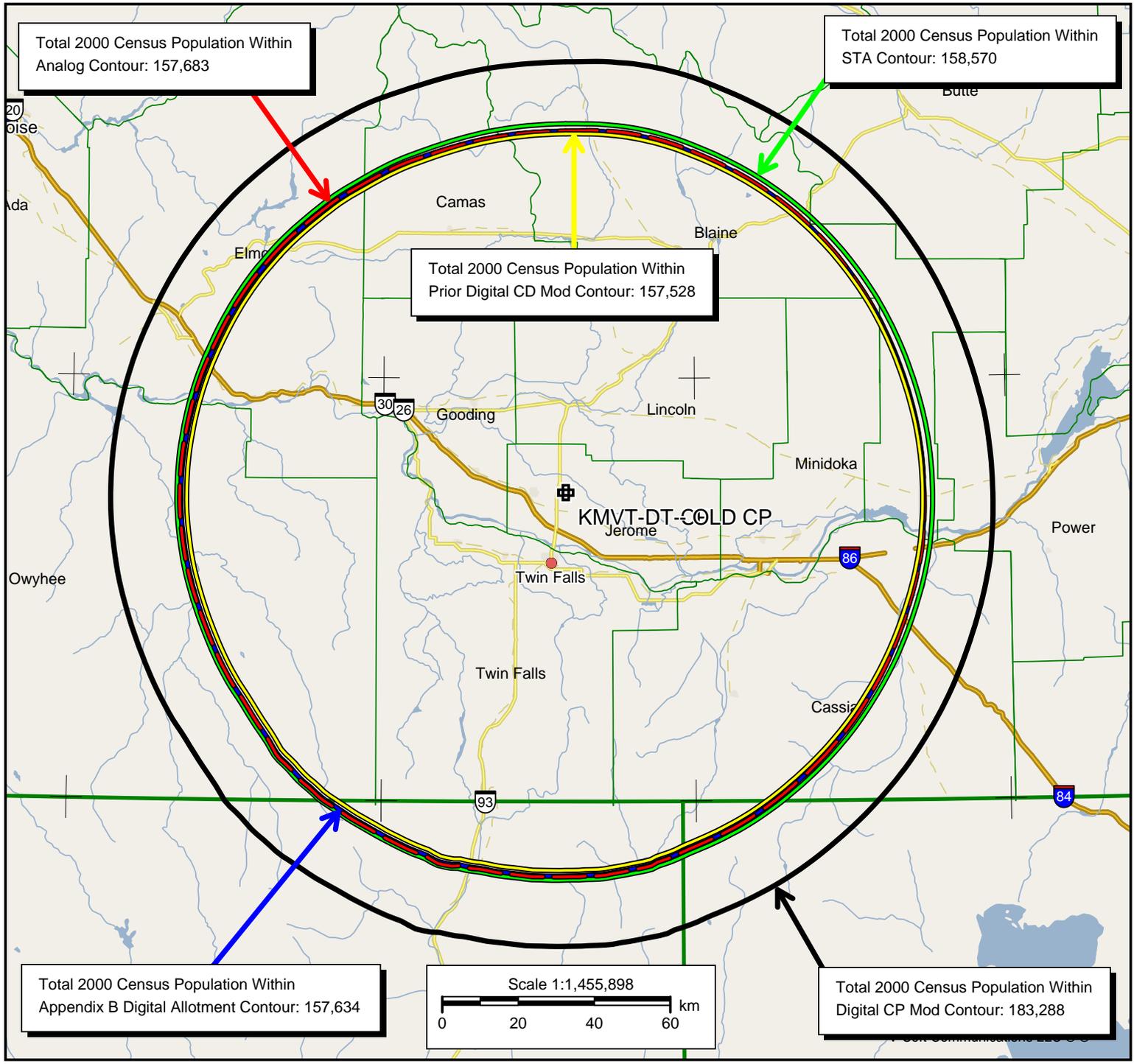
**KMVT-DT**

TWIN FALLS, ID

20090209

EXHIBIT E2





Total 2000 Census Population Within Analog Contour: 157,683

Total 2000 Census Population Within STA Contour: 158,570

Total 2000 Census Population Within Prior Digital CD Mod Contour: 157,528

Total 2000 Census Population Within Appendix B Digital Allotment Contour: 157,634

Scale 1:1,455,898  
0 20 40 60 km

Total 2000 Census Population Within Digital CP Mod Contour: 183,288

**KVMT-DT - Green Contour**  
Proposed STA  
Latitude: 42-43-48 N  
Longitude: 114-24-52 W  
ERP: 19.60 kW  
Channel: 11  
AMSL Height: 1494.73 m  
HAAT: 323.0 m  
Horiz. Pattern: Omni

KVMT-D - Blue Dashed CTR  
Appendix B Digital Allotment  
ERP: 16.40 kW  
Channel: 11

KVMT - Red Dashed CTR  
BLCT1257  
Analog  
ERP: 316.00 kW  
Channel: 11Z

KVMT-DT-CP - Black CTR  
BMPCDT20080619AFV  
Digital CP  
ERP: 132.00 kW  
Channel: 11

KVMT-DT - OLD CP - Yellow CTR  
BMPCDT20080314ABL  
Digital CP  
ERP: 13.90 kW  
Channel: 11

**Exhibit E4**

KESSLER AND GEHMAN ASSOCIATES, INC.

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-06-2009 Time: 10:11:31

Record Selected for Analysis

KMVT-D.C USERRECORD-01 TWIN FALLS ID US
Channel 11 ERP 19.6 kW HAAT 324. m RCAMSL 01495 m
Latitude 042-43-47 Longitude 0114-24-52
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Table with 4 columns: Azimuth (Deg), ERP (kW), HAAT (m), 36.0 dBu F(50,90) (km). Rows show values for azimuths from 0.0 to 315.0 in 45-degree increments.

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

No spacing violations found to other full service stations

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

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Start of Interference Analysis

# KESSLER AND GEHMAN ASSOCIATES, INC.

Proposed Station			
Channel	Call	City/State	ARN
11	KMVT-D.C	TWIN FALLS ID	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KNIN-DT	CALDWELL ID	177.7	PLN	DTVPLN	-DTVP0071
10	KISU-TV	POCATELLO ID	166.1	LIC	BLET	-19891218KE
11	KCBU	PRICE UT	381.2	APP	BMPCDT	-20080620AAQ
11	KBYU-TV	PROVO UT	301.1	APP	BPET	-19960717KE
11	KBYU-TV	PROVO UT	301.1	LIC	BMLET	-19880701KG
11	KBEO	JACKSON WY	308.1	LIC	BLCT	-20010402AJE
11	KBEO	JACKSON WY	322.5	CP MOD	BMPCDT	-20080620ANL
12	KTRV-TV	NAMPA ID	177.7	APP	BSTA	-20070716ABQ
12	KTRV-TV	NAMPA ID	177.7	LIC	BLCT	-19811015KE
12	KUTF	LOGAN UT	208.0	CP	BPCDT	-20080328ADR
12	KUTF	LOGAN UT	208.0	LIC	BLCT	-20011128ABP

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Analysis of Interference to Affected Station 1

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
10	KNIN-DT	CALDWELL ID	DTVPLN	-DTVP0071

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KNINTV	CALDWELL ID	0.0	PLN	DTVPLN	-NPLN0594
10	KISUTV	POCATELLO ID	278.0	PLN	DTVPLN	-NPLN0647
10	KENV	ELKO NV	340.2	PLN	DTVPLN	-NPLN0669
10	KWSUTV	PULLMAN WA	355.4	PLN	DTVPLN	-NPLN0691
11	KMVT	TWIN FALLS ID	177.6	PLN	DTVPLN	-NPLN0711

Results for: 10A ID CALDWELL                      DTVPLN      DTVP0071      PLN  
 HAAT 805.0 m, ATV ERP 14.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	390093	31452.7
not affected by terrain losses	386199	27277.6
lost to NTSC IX	54	169.4
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	54	169.4

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
09	KNINTV	CALDWELL ID	DTVPLN	-NPLN0594

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KIFI-DT	IDAHO FALLS ID	278.0	PLN	DTVPLN	-DTVP0056
09	NEW	WALLA WALLA WA	307.5	PLN	DTVPLN	-NPLN0632
10	KNIN-DT	CALDWELL ID	0.0	PLN	DTVPLN	-DTVP0071

Results for: 9N ID CALDWELL                      DTVPLN      NPLN0594      PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	389986	31384.3
not affected by terrain losses	384913	25535.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12	76.6
lost to all IX	12	76.6







# KESSLER AND GEHMAN ASSOCIATES, INC.

not affected by terrain losses	1144715	40503.4
lost to NTSC IX	717176	5273.2
lost to additional IX by ATV	0	112.7
lost to ATV IX only	35164	322.0
lost to all IX	717176	5386.0

Potential Interfering Stations Included in above Scenario      2

11N CO GRAND JUNCTION	BLCT	20030401ABP	LIC	
11N UT PROVO	BPET	19960717KE	APP	
12A UT LOGAN	BPCDT	20080328ADR	CP	
11A ID TWIN FALLS	USERRECORD01		APP	
*Percent Service lost without proposal:		0.0	to BPCDT	20080620AAQ
*Percent Service lost with proposal:		0.0	to BPCDT	20080620AAQ

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Analysis of Interference to Affected Station      4

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
11	KBYUTV	PROVO UT	DTVPLN	-NPLN0746

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KKCO	GRAND JUNCTION CO	338.0	PLN	DTVPLN	-NPLN0703
11	KMVT	TWIN FALLS ID	301.1	PLN	DTVPLN	-NPLN0711
11	NEW	JACKSON WY	337.7	PLN	DTVPLN	-NPLN0750
12	NEW	LOGAN UT	131.0	PLN	DTVPLN	-NPLN0800

Results for: 11N UT PROVO	DTVPLN	NPLN0746	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1442828	40977.2	
not affected by terrain losses	1387995	25283.1	
lost to NTSC IX	28506	639.3	
lost to additional IX by ATV	0	0.0	
lost to all IX	28506	639.3	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	KBYU-TV	PROVO UT	BPET	-19960717KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KKCO	GRAND JUNCTION CO	337.9	LIC	BLCT	-20030401ABP
11	KCBU	PRICE UT	80.1	APP	BPCDT	-20080620AAQ
11	KCBU	PRICE UT	137.2	CP	BPCDT	-20080530AGB
11	KBEO	JACKSON WY	337.8	LIC	BLCT	-20010402AJE
11	KBEO	JACKSON WY	359.4	CP MOD	BPCDT	-20080620ANL
12	KUTF	LOGAN UT	130.9	CP	BPCDT	-20080328ADR
12	KUTF	LOGAN UT	130.9	LIC	BLCT	-20011128ABP
11	KMVT-D.C	TWIN FALLS ID	301.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station      5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	KBYU-TV	PROVO UT	BMLET	-19880701KG

KESSLER AND GEHMAN ASSOCIATES, INC.

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KKCO	GRAND JUNCTION CO	337.9	LIC	BLCT	-20030401ABP
11	KCBU	PRICE UT	80.1	APP	BMPCDT	-20080620AAQ
11	KCBU	PRICE UT	137.2	CP	BPCDT	-20080530AGB
11	KBEO	JACKSON WY	337.8	LIC	BLCT	-20010402AJE
11	KBEO	JACKSON WY	359.4	CP MOD	BMPCDT	-20080620ANL
12	KUTF	LOGAN UT	130.9	CP	BPCDT	-20080328ADR
12	KUTF	LOGAN UT	130.9	LIC	BLCT	-20011128ABP
11	KMVT-D.C	TWIN FALLS ID	301.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 6

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
11	NEW	JACKSON WY	DTVPLN	-NPLN0750

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KISUTV	POCATELLO ID	153.9	PLN	DTVPLN	-NPLN0647
10	KFNE	RIVERTON WY	205.9	PLN	DTVPLN	-NPLN0693
11	KMVT	TWIN FALLS ID	308.1	PLN	DTVPLN	-NPLN0711
11	KULR-DT	BILLINGS MT	313.6	PLN	DTVPLN	-DTVP0086
11	KBYUTV	PROVO UT	337.7	PLN	DTVPLN	-NPLN0746
11	KFNR	RAWLINS WY	343.2	PLN	DTVPLN	-NPLN0751

Results for:	11N WY JACKSON	DTVPLN	NPLN0750	PLN
	POPULATION	AREA (sq km)		
within Noise Limited Contour	124883	31432.3		
not affected by terrain losses	23919	15948.2		
lost to NTSC IX	7	276.1		
lost to additional IX by ATV	0	0.0		
lost to all IX	7	276.1		

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	KBEO	JACKSON WY	BLCT	-20010402AJE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KISU-TV	POCATELLO ID	153.9	LIC	BLET	-19891218KE
10	KFNE	RIVERTON WY	205.9	CP MOD	BMPCDT	-20080516AAH
10	KFNE	RIVERTON WY	205.9	LIC	BLCT	-19910429KF
11	KULR-DT	BILLINGS MT	313.5	PLN	DTVPLN	-DTVP0086
11	KCBU	PRICE UT	389.3	APP	BMPCDT	-20080620AAQ
11	KCBU	PRICE UT	412.3	CP	BPCDT	-20080530AGB
11	KBYU-TV	PROVO UT	337.8	APP	BPET	-19960717KE
11	KBYU-TV	PROVO UT	337.8	LIC	BMLET	-19880701KG
11	KFNR	RAWLINS WY	343.4	LIC	BLCT	-20010511ABN
11	KMVT-D.C	TWIN FALLS ID	308.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	KBEO	JACKSON WY	BMPCDT	-20080620ANL

**KESSLER AND GEHMAN ASSOCIATES, INC.**

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KISU-TV	POCATELLO ID	163.8	LIC	BLET	-19891218KE
10	KFNE	RIVERTON WY	197.1	CP MOD	BMPCDT	-20080516AAH
10	KFNE	RIVERTON WY	197.1	LIC	BLCT	-19910429KF
11	KMVT	TWIN FALLS ID	322.5	PLN	DTVPLN	-NPLN0711
11	KULR-DT	BILLINGS MT	292.1	PLN	DTVPLN	-DTPV0086
11	KCBU	PRICE UT	410.3	APP	BMPCDT	-20080620AAQ
11	KBYU-TV	PROVO UT	359.4	APP	BPET	-19960717KE
11	KBYU-TV	PROVO UT	359.4	LIC	BMLET	-19880701KG
11	KFNR	RAWLINS WY	346.4	LIC	BLCT	-20010511ABN
11	KMVT-D.C	TWIN FALLS ID	322.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
12	KTRV	NAMPA ID	DTVPLN	-NPLN0764

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KMVT	TWIN FALLS ID	177.6	PLN	DTVPLN	-NPLN0711
12	KUIDTV	MOSCOW ID	332.4	PLN	DTVPLN	-NPLN0763
12	KWNV-DT	WINNEMUCCA NV	334.3	PLN	DTVPLN	-DTPV0105
12	NEW	LOGAN UT	383.9	PLN	DTVPLN	-NPLN0800
13	KIPT	TWIN FALLS ID	177.7	PLN	DTVPLN	-NPLN0827
13	KTVR	LA GRANDE OR	216.0	PLN	DTVPLN	-NPLN0858

Results for: 12N ID NAMPA	DTVPLN	NPLN0764	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	396666	46832.8	
not affected by terrain losses	390090	37506.6	
lost to NTSC IX	188	402.9	
lost to additional IX by ATV	0	0.0	
lost to all IX	188	402.9	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KTRV-TV	NAMPA ID	BSTA	-20070716ABQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUID-TV	MOSCOW ID	332.4	LIC	BLET	-19911223KF
12	KUID-DT	MOSCOW ID	332.4	LIC	BPRM	-20020805ABC
12	KUID-TV	MOSCOW ID	332.4	LIC	BLEDT	-20060804AFK
12	KWNV-DT	WINNEMUCCA NV	334.3	PLN	DTVPLN	-DTPV0105
12	KUTF	LOGAN UT	384.0	CP	BPCDT	-20080328ADR
12	KUTF	LOGAN UT	384.0	LIC	BLCT	-20011128ABP
13	KTRV	NAMPA ID	0.0	LIC	BPRM	-20000412AAG
13	KTRV-TV	NAMPA ID	0.0	LIC	BLCDT	-20050516ATS
13	KIPT	TWIN FALLS ID	177.7	LIC	BMLET	-20030116AAC
13	KTVR	LA GRANDE OR	215.9	CP	BPEDT	-20080620AAW
13	KTVR	LA GRANDE OR	215.9	LIC	BLET	-20041112AEN
11	KMVT-D.C	TWIN FALLS ID	177.7	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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# KESSLER AND GEHMAN ASSOCIATES, INC.

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KTRV-TV	NAMPA ID	BLCT	-19811015KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUID-TV	MOSCOW ID	332.4	LIC	BLET	-19911223KF
12	KUID-DT	MOSCOW ID	332.4	LIC	BPRM	-20020805ABC
12	KUID-TV	MOSCOW ID	332.4	LIC	BLEDT	-20060804AFK
12	KWNV-DT	WINNEMUCCA NV	334.3	PLN	DTVPLN	-DTVP0105
12	KUTF	LOGAN UT	384.0	CP	BPCDT	-20080328ADR
12	KUTF	LOGAN UT	384.0	LIC	BLCT	-20011128ABP
13	KTRV	NAMPA ID	0.0	LIC	BPRM	-20000412AAG
13	KTRV-TV	NAMPA ID	0.0	LIC	BLCDT	-20050516ATS
13	KIPT	TWIN FALLS ID	177.7	LIC	BMLET	-20030116AAC
13	KTVR	LA GRANDE OR	215.9	CP	BPEDT	-20080620AAW
13	KTVR	LA GRANDE OR	215.9	LIC	BLET	-20041112AEN
11	KMVT-D.C	TWIN FALLS ID	177.7	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KUTF	LOGAN UT	BPCDT	-20080328ADR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KMVT	TWIN FALLS ID	208.0	PLN	DTVPLN	-NPLN0711
11	KCBU	PRICE UT	203.0	APP	BMPCDT	-20080620AAQ
11	KBYU-TV	PROVO UT	130.9	APP	BPET	-19960717KE
11	KBYU-TV	PROVO UT	130.9	LIC	BMLET	-19880701KG
11	KBEO	JACKSON WY	222.3	LIC	BLCT	-20010402AJE
12	KKCO-DT	GRAND JUNCTION CO	422.2	PLN	DTVPLN	-DTVP0096
12	KTRV-TV	NAMPA ID	384.0	APP	BSTA	-20070716ABQ
12	KTRV-TV	NAMPA ID	384.0	LIC	BLCT	-19811015KE
13	KIPT	TWIN FALLS ID	208.0	LIC	BMLET	-20030116AAC
13	KSTU	SALT LAKE CITY UT	125.1	LIC	BLCT	-19871116KE
13	KSTU	SALT LAKE CITY UT	125.1	APP	BSTA	-20060530ADY
11	KMVT-D.C	TWIN FALLS ID	208.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 11

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
12	NEW	LOGAN UT	DTVPLN	-NPLN0800

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KMVT	TWIN FALLS ID	208.0	PLN	DTVPLN	-NPLN0711
11	KBYUTV	PROVO UT	131.0	PLN	DTVPLN	-NPLN0746
12	KTRV	NAMPA ID	383.9	PLN	DTVPLN	-NPLN0764
13	KIPT	TWIN FALLS ID	208.0	PLN	DTVPLN	-NPLN0827

# KESSLER AND GEHMAN ASSOCIATES, INC.

KMVT TWIN FALLS, ID - STA APPLICATION

Exhibit E5, PAGE 10 of 11

13 KSTU SALT LAKE CITY UT 125.2 PLN DTVPLN -NPLN0870

Results for: 12N UT LOGAN

	DTVPLN	NPLN0800	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	850220	46256.2	
not affected by terrain losses	652854	30183.2	
lost to NTSC IX	373573	2328.9	
lost to additional IX by ATV	0	0.0	
lost to all IX	373573	2328.9	

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	KUTF	LOGAN UT	BLCT -20011128ABP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	KCBU	PRICE UT	203.0	APP	BMPCDT -20080620AAQ
11	KBYU-TV	PROVO UT	130.9	APP	BPET -19960717KE
11	KBYU-TV	PROVO UT	130.9	LIC	BMLET -19880701KG
12	KTRV-TV	NAMPA ID	384.0	APP	BSTA -20070716ABQ
12	KTRV-TV	NAMPA ID	384.0	LIC	BLCT -19811015KE
13	KIPT	TWIN FALLS ID	208.0	LIC	BMLET -20030116AAC
13	KSTU	SALT LAKE CITY UT	125.1	LIC	BLCT -19871116KE
13	KSTU	SALT LAKE CITY UT	125.1	APP	BSTA -20060530ADY
11	KMVT-D.C	TWIN FALLS ID	208.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KMVT-D.C	TWIN FALLS ID	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KNIN-DT	CALDWELL ID	177.7	PLN	DTVPLN -DTVP0071
10	KISU-TV	POCATELLO ID	166.1	LIC	BLET -19891218KE
11	KCBU	PRICE UT	381.2	APP	BMPCDT -20080620AAQ
11	KBYU-TV	PROVO UT	301.1	APP	BPET -19960717KE
11	KBYU-TV	PROVO UT	301.1	LIC	BMLET -19880701KG
11	KBEO	JACKSON WY	308.1	LIC	BLCT -20010402AJE
11	KBEO	JACKSON WY	322.5	CP MOD	BMPCDT -20080620ANL
12	KTRV-TV	NAMPA ID	177.7	APP	BSTA -20070716ABQ
12	KTRV-TV	NAMPA ID	177.7	LIC	BLCT -19811015KE
12	KUTF	LOGAN UT	208.0	CP	BPCDT -20080328ADR
12	KUTF	LOGAN UT	208.0	LIC	BLCT -20011128ABP

Total scenarios = 1

Result key: 4  
 Scenario 1 Affected station 12  
 Before Analysis

Results for: 11A ID TWIN FALLS USERRECORD01 APP  
 HAAT 324.0 m, ATV ERP 132.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	152891	42538.6
not affected by terrain losses	149772	37866.4
lost to NTSC IX	5	132.2
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	5	132.2

**KESSLER AND GEHMAN ASSOCIATES, INC.**

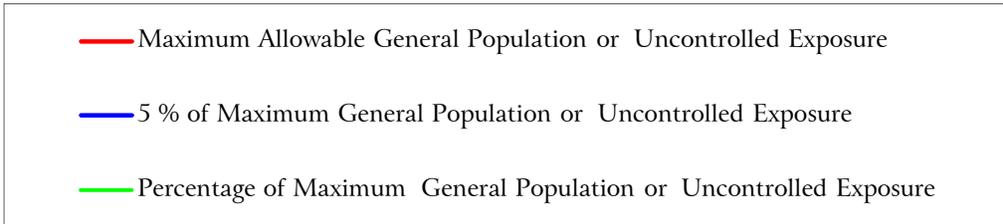
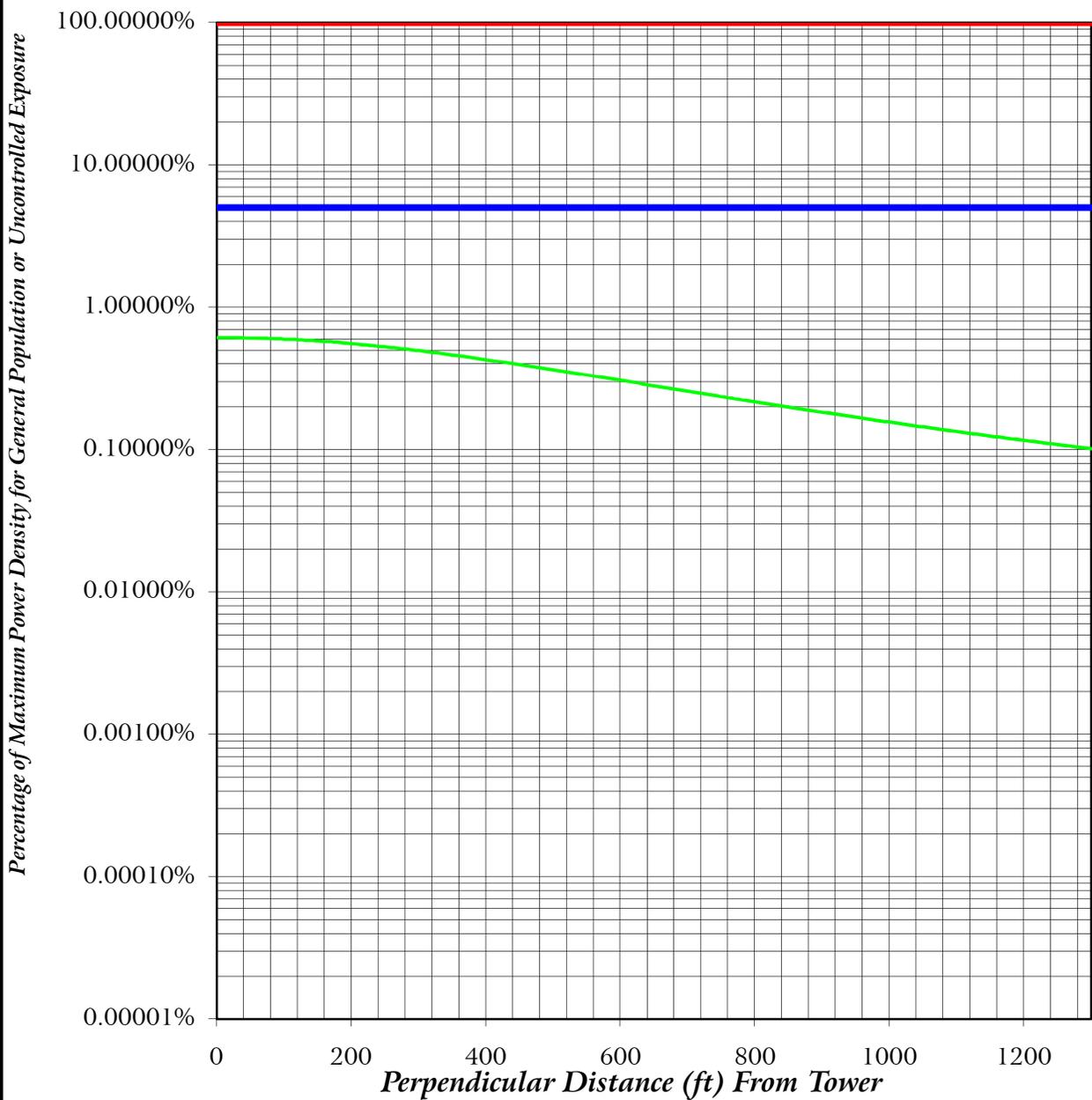
Potential Interfering Stations Included in above Scenario 1

11N UT PROVO                      BMLET      19880701KG      LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

# FAR FIELD EXPOSURE TO RF EMISSIONS



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 507 N.W. 60th Street, Suite C  
 Gainesville, Florida 32607

**KMVT-DT**  
 TWIN FALLS, ID

20090209

EXHIBIT E6

METHODOLOGY AND EXPLANATION OF  
ENVIRONMENTAL IMPACT / RADIO FREQUENCY RADIATION  
HAZARD ANALYSIS

A theoretical analysis has been conducted of the human exposure to radio frequency radiation (“RFR”) using the calculation methodology described in *OET Bulletin 65, Edition 97-01*. The RFR analysis is conducted pursuant to the following methodology:

Terrain<sup>1</sup> extraction is compiled from the proposed tower site to radial lengths of 0.25 miles in 0.001 mile increments for 360 radials. The power density is calculated for each terrain point at 6 feet above ground level using the elevation and azimuth pattern of the proposed broadcast antenna. The power density calculations are conducted using the lower edge of the proposed channel frequency. To account for ground reflections, a coefficient of 1.6 was included in the calculation.

The resulting cylindrical polar analysis is then summarized into a coordinate plane graph using the following methodology:

Starting from the origin the maximum calculated RFR value is determined among the 360 degree radials for each 0.001 mile increment, the value is then converted into a percentage of the maximum allowable general population or uncontrolled exposure and plotted as a function of perpendicular distance from the tower.

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<sup>1</sup> Terrain extraction is based upon a 3 arc second point spacing terrain database.