

APPLICATION FOR MINOR
MODIFICATION TO A PERMITTED DTV
BROADCAST STATION
FCC FILE NO.: BMPCDT-20080314ABL
TO MAXIMIZE AND OPERATE IN THE POST
DTV TRANSITION PERIOD
KMVT-DT NEUHOFF FAMILY LIMITED
PARTNERSHIP
TWIN FALLS, ID

KESSLER & GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20080602

Prepared by Ryan Wilhour

KGGA

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KESSLER AND GEHMAN ASSOCIATES, INC.

ENGINEERING STATEMENT OF RYAN WILHOUR OF THE FIRM KESSLER AND
GEHMAN ASSOCIATES, INC., CONSULTING ENGINEERS IN CONNECTION WITH
AN APPLICATION FOR MINOR MODIFICATION OF A PERMITTED DTV
BROADCAST STATION FCC FILE NUMBER BMPCDT-20080314ABL TO MAXIMIZE
OPERATION IN THE POST DTV TRANSITION PERIOD
KMVT-DT
NEUHOFF FAMILY LIMITED PARTNERSHIP
TWIN FALLS, ID

PROCLAMATION OF ENGINEER

I, Ryan Wilhour, am an associate of Kessler and Gehman Associates, Inc. with offices in Gainesville, Florida. I am a graduate of the University of Florida with a Bachelor of Science degree in electrical engineering.

This firm has been employed by Neuhoff Family Limited Partnership “NFLP” to prepare engineering studies and a minor modification application to FCC file number BMPCDT-20080314ABL for post DTV transition maximization.

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)

NFLP, licensee of KMVT-DT, Channel 11 herein proposes to increase its ERP from 13.9kW to 132kW for its post DTV transition operation. No other changes are proposed.

ALLOCATION ANALYSIS

It is herein proposed to modify the above referenced channel 11 digital facility to maximize its coverage area without causing impermissible interference to other post DTV transition

facilities. Exhibit E5 demonstrates the interference considerations for the proposed facility and further illustrates complete compliance to the 0.5% interference threshold criteria.

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 June 2, 2008.

The logo for Kessler and Gehman Associates, Inc. (KGA) features the letters 'KGA' in a stylized, serif font. The letters are white with a thin black outline and are centered over a thick, horizontal grey bar.

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

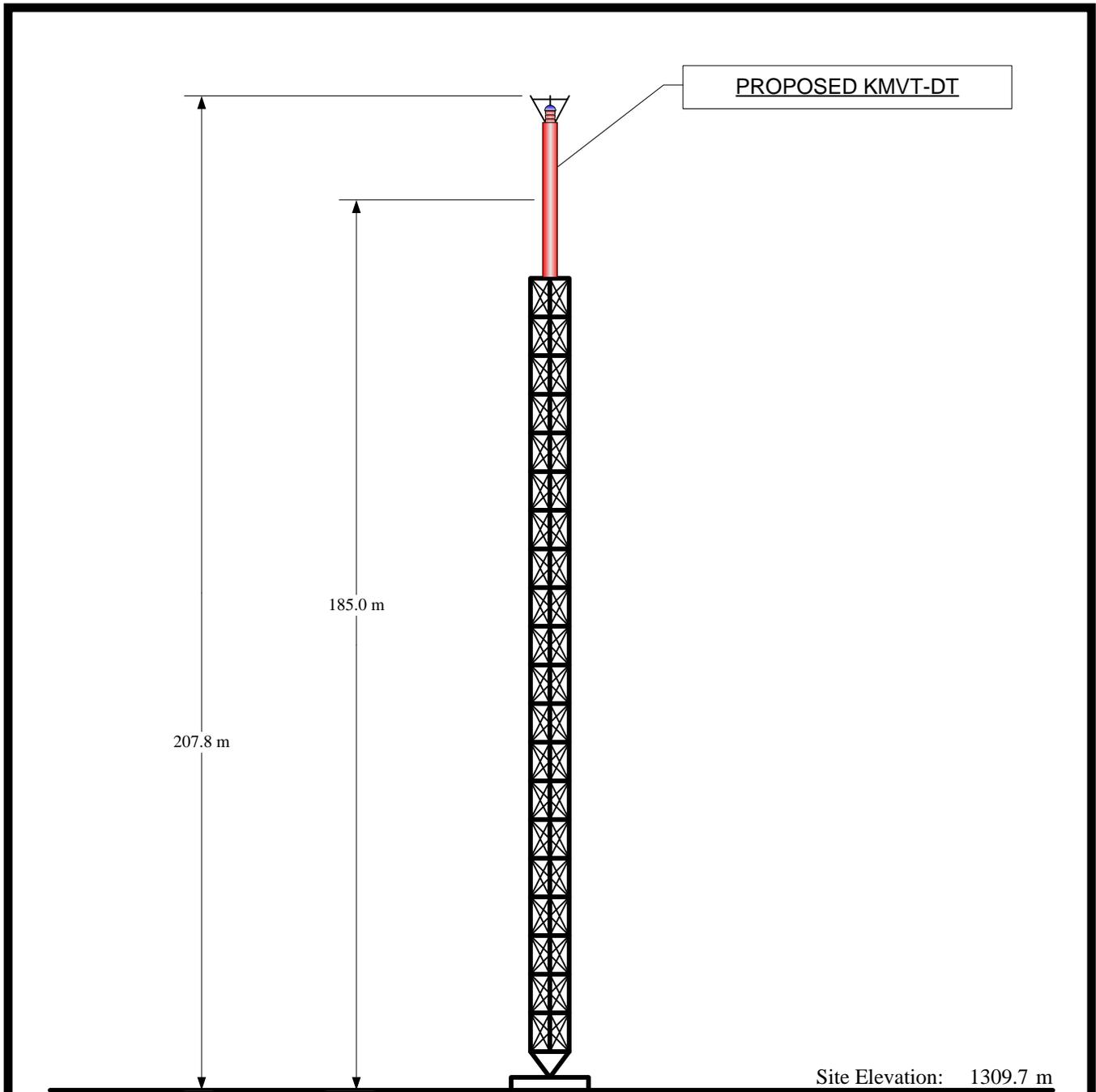
Number 11
Frequency 198 - 204 MHz

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 21.21 dBk
In Beam Maximum 132.0 kW

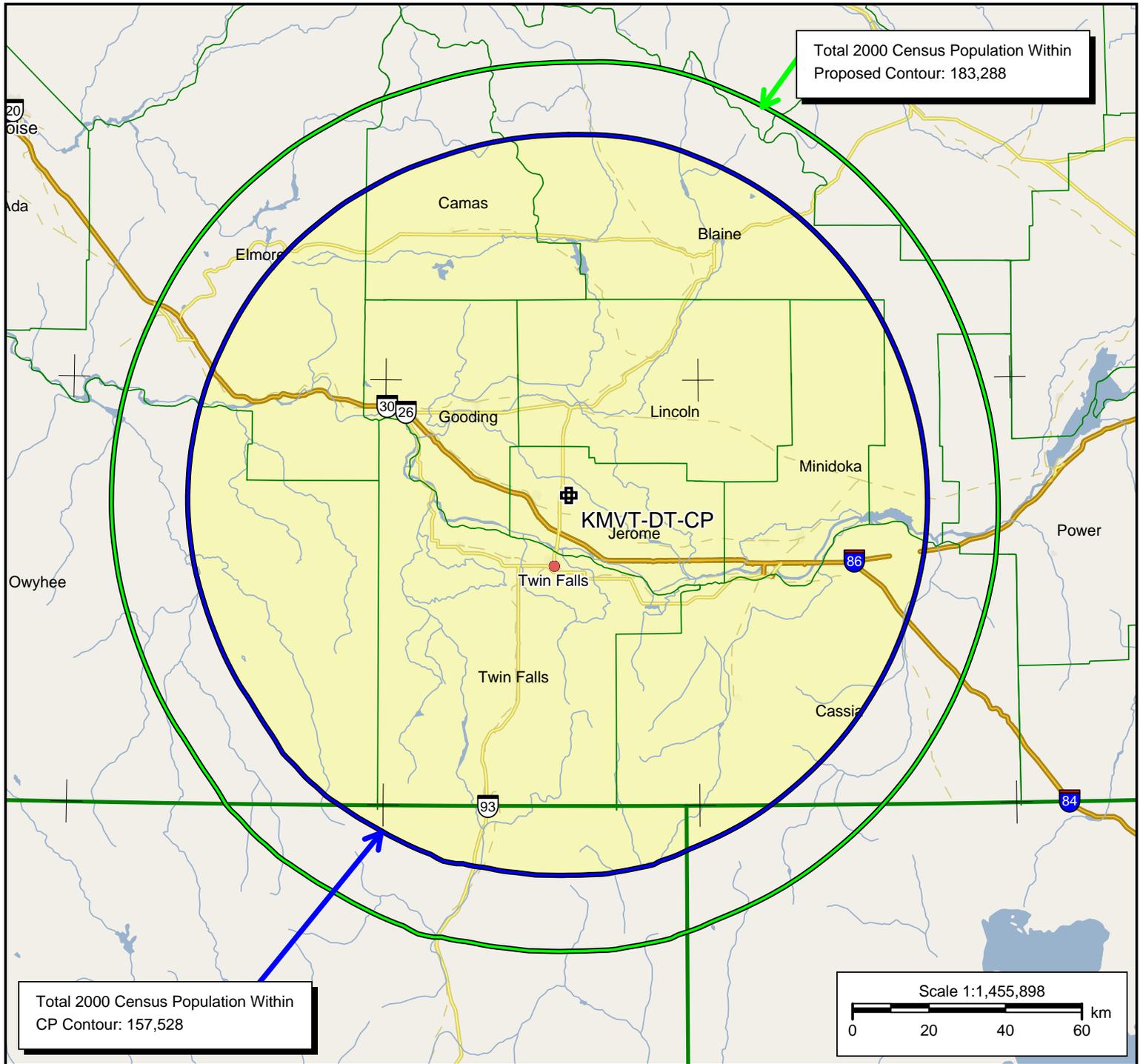


Overall Height AGL:	207.8 m	NAD 27 Coordinates:	
Overall Height AMSL:	1517.5 m	N. Latitude:	42° 43' 47"
Radiation Center AGL:	185.0 m	W. Longitude:	114° 24' 52"
Radiation Center AMSL:	1494.7 m	FCC Tower Registration Number:	1040035
Radiation Center HAAT:	323 m	FAA Aeronautical Study Number:	98-ANM-0006-OE
Average Terrain:	1172 m		

NOTE: NOT TO SCALE

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KMVT-DT
 TWIN FALLS, ID
 20080602
 EXHIBIT E2



Total 2000 Census Population Within
Proposed Contour: 183,288

KMVT-DT- Green Contour
 Proposed Facility
 Latitude: 42-43-47 N
 Longitude: 114-24-52 W
 ERP: 132.00 kW
 Channel: 11
 AMSL Height: 1494.73 m
 HAAT: 323.0 m
 Horiz. Pattern: Omni

KMVT-DT-CP - Blue Contour
 BMPCDT20080314ABL
 Latitude: 42-43-47 N
 Longitude: 114-24-52 W
 ERP: 13.90 kW
 Channel: 11
 AMSL Height: 1495.0 m
 HAAT: 323.0 m
 Horiz. Pattern: Omni

Total 2000 Census Population Within
CP Contour: 157,528

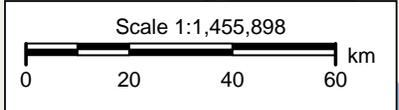
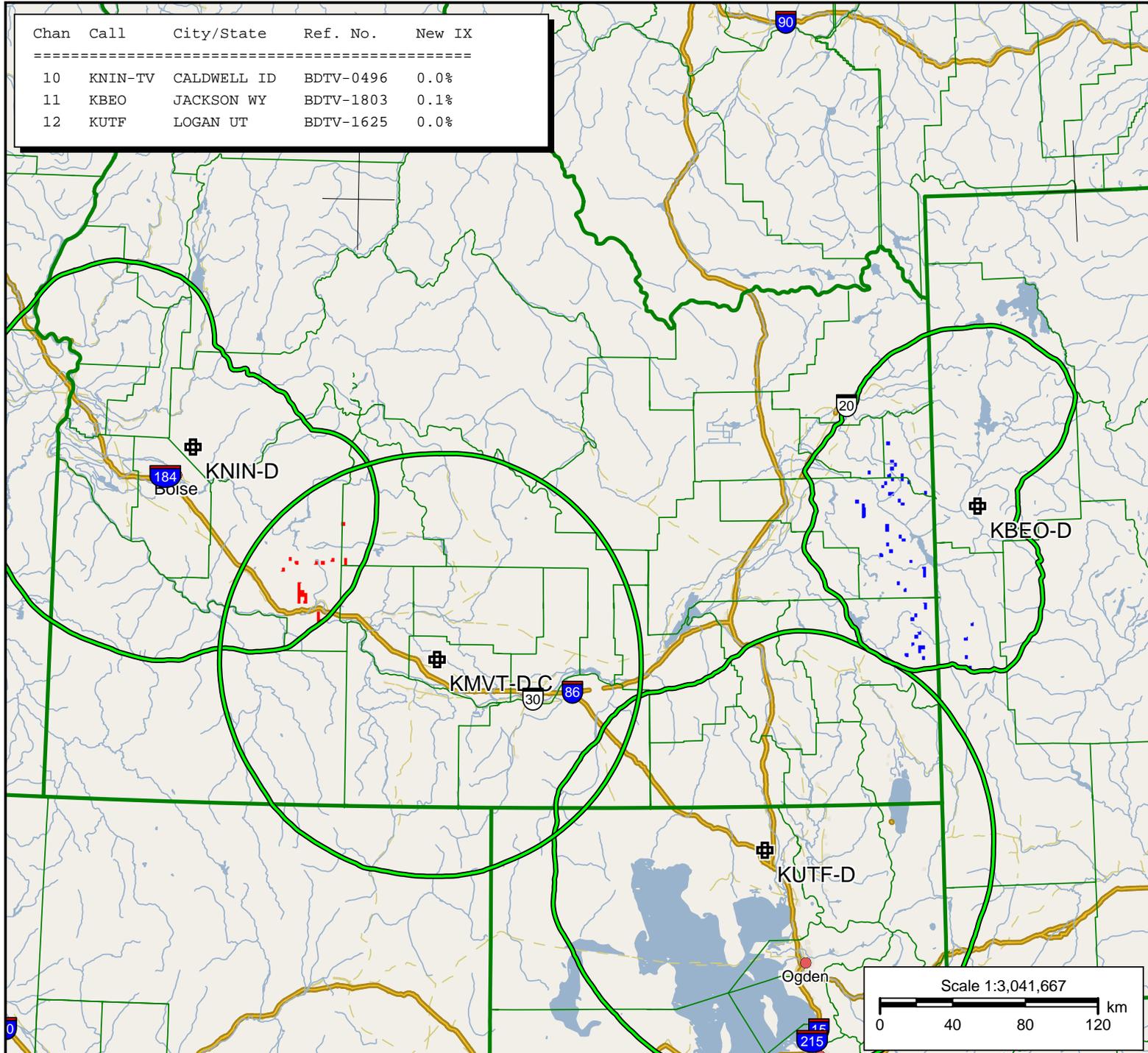


Exhibit E4

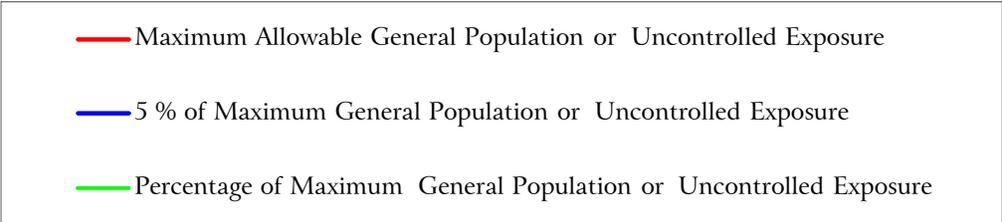
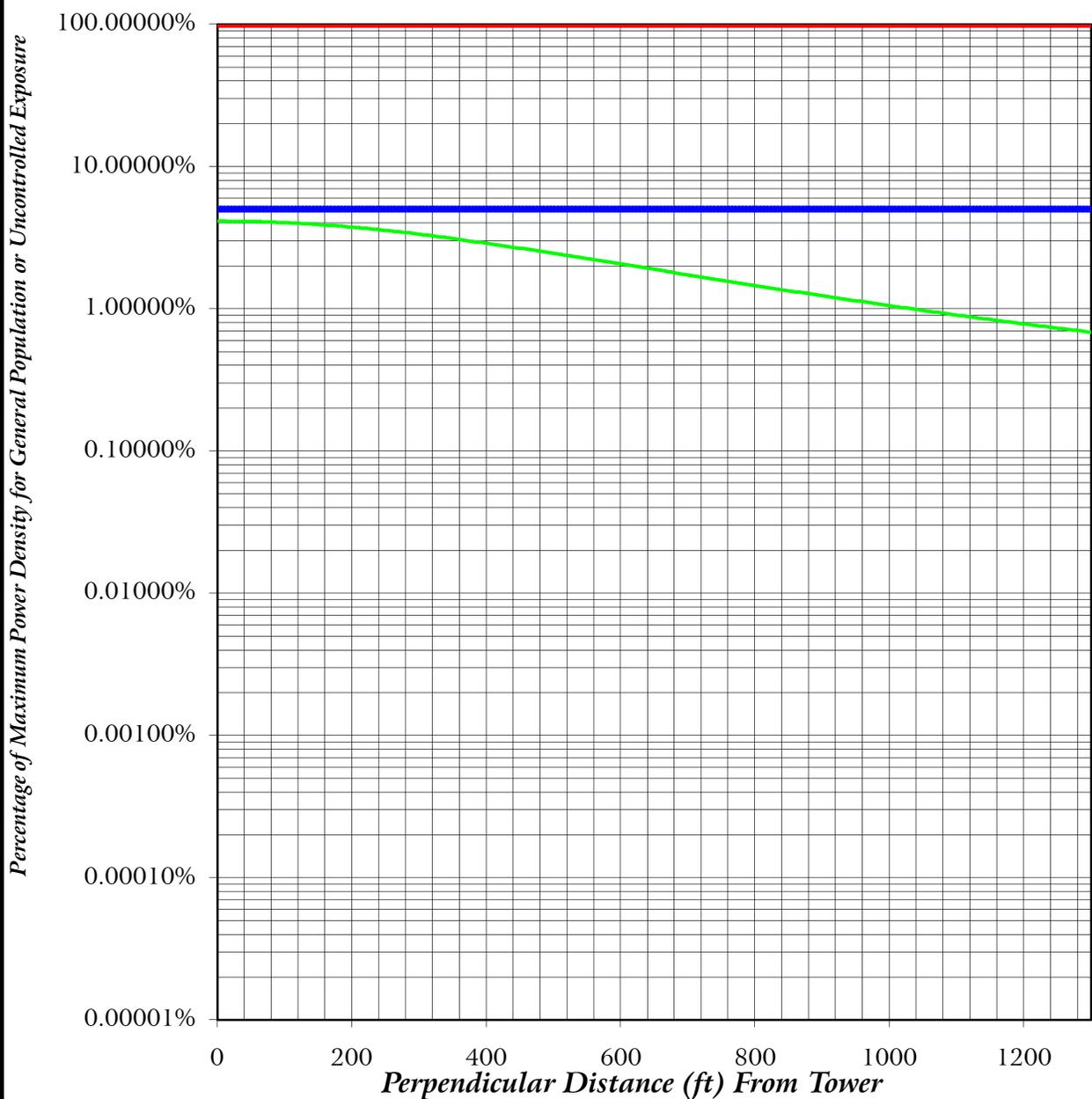
Chan	Call	City/State	Ref. No.	New IX
10	KNIN-TV	CALDWELL ID	BDTV-0496	0.0%
11	KBEO	JACKSON WY	BDTV-1803	0.1%
12	KUTF	LOGAN UT	BDTV-1625	0.0%



KMVT-D.C
Proposed
Latitude: 42-43-47 N
Longitude: 114-24-52 W
ERP: 132.00 kW
Channel: 11
Frequency: 201.0 MHz
AMSL Height: 1495.0 m
Elevation: 1310.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 10.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

Exhibit E5

FAR FIELD EXPOSURE TO RF EMISSIONS



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:

Terrain¹ 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.

¹ Terrain extraction is based upon a 3 arc second point spacing terrain database.