

TECHNICAL EXHIBIT
APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
(FCC FILE NO. BNPTTL-20000815ACB)
LPTV STATION K23GP
FACILITY ID 125589
PARK CITY, UTAH
CH 23 95 KW (MAX-DA)

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for modification of the construction permit for LPTV station K23GP at Park City, Utah (Facility ID: 125589; File No. BNPTTL-20000815ACB). Specifically, this application proposes to change the location of the transmitting site, increase the maximum effective radiated power (ERP) from 1 kilowatt (kW) to 95 kW, increase the radiation center above mean sea level (RCAMSL) from 2279 meters to 2710 meters, and change the directional antenna system. No other changes are proposed including channel (23), frequency offset (+), or community of license (Park City). As detailed below, this application is considered a "minor change" in facilities pursuant to Section 73.3572.

Proposed Operation

It is proposed to operate on channel 23 with a "plus" carrier frequency offset, a directional antenna maximum ERP of 95 kW at an RCAMSL of 2710 meters. It is proposed to side-mount a System With Reliability, Inc. (SWR) SWLP16EC "off-the-shelf" directional antenna (Antenna ID# 24168) oriented at 90° true at the 16-meter level of an existing 36.6-meter tower structure (antenna structure registration number: 1063877). It is believed that the instant application conforms to all other applicable rules and regulations of the Federal Communications Commission.

Minor Change Application

Figure 1 depicts the authorized and herein proposed 74 dBu contours for K23GP. As indicated, the proposed 74 dBu contour encompasses a portion of the authorized 74 dBu contour. Therefore, the proposed modification is considered a "minor" change in facilities pursuant to Section 73.3572. Figure 2

depicts the horizontal plane relative field pattern for the proposed SWR SWLP16EC directional antenna.

Analog TV Broadcast Analog Protection

A study has been conducted using the provisions of Section 74.705 which indicates that the proposed K23GP operation will not create prohibited interference to other existing, authorized or proposed TV broadcast analog (NTSC) full-power stations with the exception of the licensed and authorized operations of KTMW on channel 20 at Salt Lake City, UT (LIC, BLCT-20010522AAZ; CP, BMPCT-19990308KF), the licensed operation of KPNZ on channel 24 at Ogden, UT (BLCT-20020402AAK), and the licensed operation of KUWB on channel 30 at Ogden, UT (BLCT-20001019ABP). Therefore, waiver of Section 74.705 is requested with respect to these operations. Justifications for the waiver requests are provided below.

Station KTMW's licensed and authorized facilities both operate on a third lower adjacent channel to the proposed K23GP operation. Station KPNZ operates on a first upper adjacent channel to the proposed K23GP operation. Station KUWB operates on a seventh upper adjacent channel to the proposed K23GP operation. Section 74.705 specifies a minimum distance of 32 kilometers towards KTMW for a lower power TV station operating in excess of 50 kW, whereas the actual distance is 0.1 km. Section 74.705 states that an LPTV station may not change its facilities to specify a site within the protected contour of a first adjacent channel full service station, as is the case with KPNZ. Finally, section 74.705 specifies a minimum distance of 100 kilometers towards KUWB, whereas the actual distance is 0.7 km. Therefore, the proposed K23GP operation will be short-spaced to all four of these operations.

The 32 kilometer separation requirement between third adjacent channel full service NTSC (KTMW) and LPTV (K23GP) stations is designed to prevent "cross modulation" and "intermodulation" interference. In cross modulation interference, the modulation of the undesired channel is superimposed on the modulation of the desired channel. The potential for cross modulation interference was analyzed based on OET Bulletin No. 69, which indicates that no interference is calculated to occur to KTMW. This complies with the FCC's 0.5% interference criteria and is tabulated on Figure 3.

Intermodulation interference results from the combination of the proposed K23GP channel 23 and KTMW channel 20 signals (visual carriers only) in a receiver to generate a signal that falls within the pass-band of a "desired" third signal. For the K23GP channel 23/KTMW channel 20 combination, the intermodulation products will not be on either channel 23 or channel 20, but will fall on channels 17 and 26. If there are viewable signals on those channels in the vicinity of the proposed K23GP channel 23 service area there will be a potential for interference. Our studies indicate that there are no viewable full-service NTSC signals on these channels in the area and, therefore, interference is not likely to occur.

With respect to the short-spacings with KPNZ and KUWB, based on the provisions of the OET-69 Bulletin as permitted by FCC rules [Section 74.705(e)], it is believed that K23GP's proposed operation complies with the FCC's interference criteria towards these operations. Specifically, calculations have been made using the procedures outlined in the FCC's OET-69 Bulletin and a 2 square kilometer grid. The results of the OET Bulletin No. 69 are tabulated on Figure 3 and, as indicated, the proposal complies with the FCC's 0.5% interference threshold towards KPNZ and KUWB.¹

DTV Station and DTV Table of Allotments Protection

Calculations based on OET Bulletin No. 69 indicate that the proposed K23GP operation on channel 23 complies with the FCC's 0.5% interference threshold criteria to all allotted, proposed or actual DTV operating facilities on channels 22, 23, and 24. Figure 3 provides the output of the study based on OET-69 Bulletin, and as shown, the proposed operation is not predicted to cause interference to any DTV operation.

LPTV/TV Translator, Class A and Digital Class A Protection

¹ The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed. An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin No. 69.

A study has been conducted which indicates that the K23GP proposal will not create prohibited interference to other existing, authorized or proposed LPTV, TV Translator, Class A and digital Class A stations with the exception of the following:

K22DE, Ch. 22, Tooele, UT (LIC, BLTT-19910607IE)
K23BV, Ch. 23, Montpelier, ID (LIC, BLTT-19980709JF)
K36AD, Ch. 23, Preston, ID (CP, BPTT-20031002ADK)
K36AD, Ch. 23, Preston, ID (APP, BPTT-20030130AGN)
K23FT, Ch. 23, Duchesne, UT (LIC, BLTT-20031002ABR)
K23FT, Ch. 23, Duchesne, UT (APP, BMPTT-20020403ABA)
K23DR, Ch. 23, Roosevelt, UT (LIC, BLTTL-19940223IJ)
K23FK, Ch. 23, Salina & Redmond, UT (LIC, BLTT-20030815ADN)
K23DS, Ch. 23, Evanston, WY (LIC, BLTT-19940201JE)
New, Ch. 23, Heber City, UT (APP, BNPTT-20000831AWS)
New, Ch. 23, Price, UT (APP, BNPTT-20000830ACS)
New, Ch. 23, Scofield, UT (APP, BNPTT-20000830ACV)
New, Ch. 23, Scofield, UT (APP, BNPTT-20000831AIE)
New, Ch. 23, Woodland & Kamas, UT (APP, BNPTT-20000831CMI)

However, based on the provisions of OET-69 Bulletin as permitted by FCC rules [Section 74.707(e)] it is believed that K23GP's proposed operation complies with the FCC's interference criteria towards these operations. Specifically, calculations have been made using the procedures outlined in the FCC's OET-69 Bulletin and a 2 square kilometer grid. The results of the OET Bulletin No. 69 calculations are tabulated on Figure 3 and, as indicated, the K23GP proposal complies with the FCC's 0.5% interference criteria towards these operations.

Land Mobile Station Protection

The proposed K23GP operation does not cause interference to land mobile radio stations (LMRS).

Environmental Considerations

The proposed facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields.² The power density at the base of the tower was calculated using the appropriate procedures contained in the Bulletin.

² OET Bulletin 65, Second Edition 97-01, August 1997.

The proposed K23GP antenna will be side-mounted on an existing 36.6-meter tower. The antenna center of radiation is located 16 meters above ground level. The calculated power density at 2 meters above ground level (AGL) was calculated using the appropriate equation contained in the Bulletin. Using a greater than expected vertical relative field value of 0.1, a maximum visual effective radiated power of 95 kilowatts and 10 percent aural power, the calculated power density at 2 meters above ground level at the base of the tower is 0.081 milliwatts per square centimeter (mW/cm^2), or 23 percent of the Commission's recommended limit applicable to general population/uncontrolled exposure areas ($0.35 \text{ mW}/\text{cm}^2$ for TV channel 23). However, as this is a multi-user site, measurements will be made to substantiate compliance with the RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that 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 stations are at reduced power or shut down.

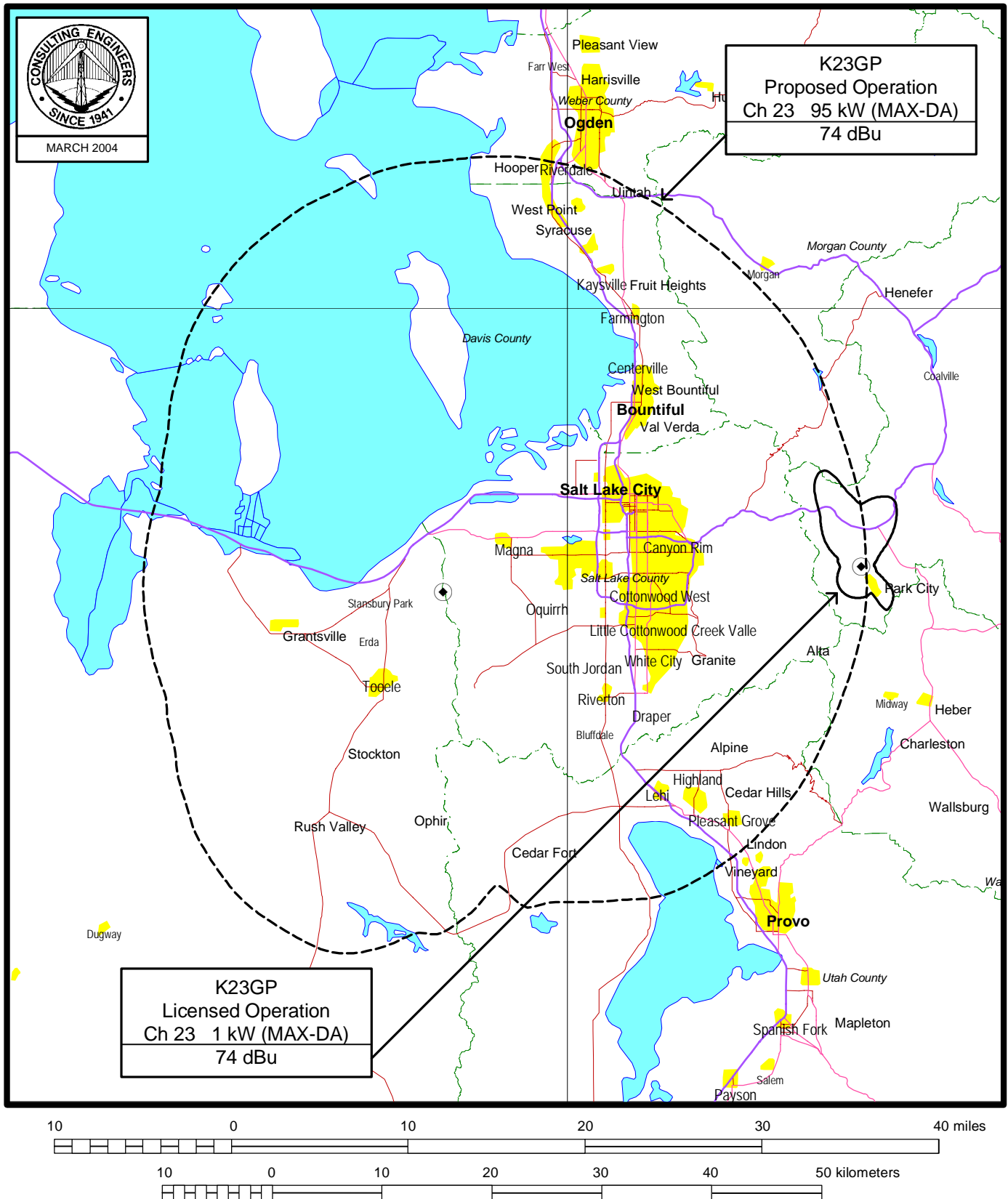
It is noted that this technical exhibit only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be provided to the FCC by the tower owner as part of the tower registration process.

W. Jeffrey Reynolds

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201 Fletcher Avenue
Sarasota, Florida 34237
(941)329-6000
JEFF@DLR.COM

March 5, 2004

Figure 1



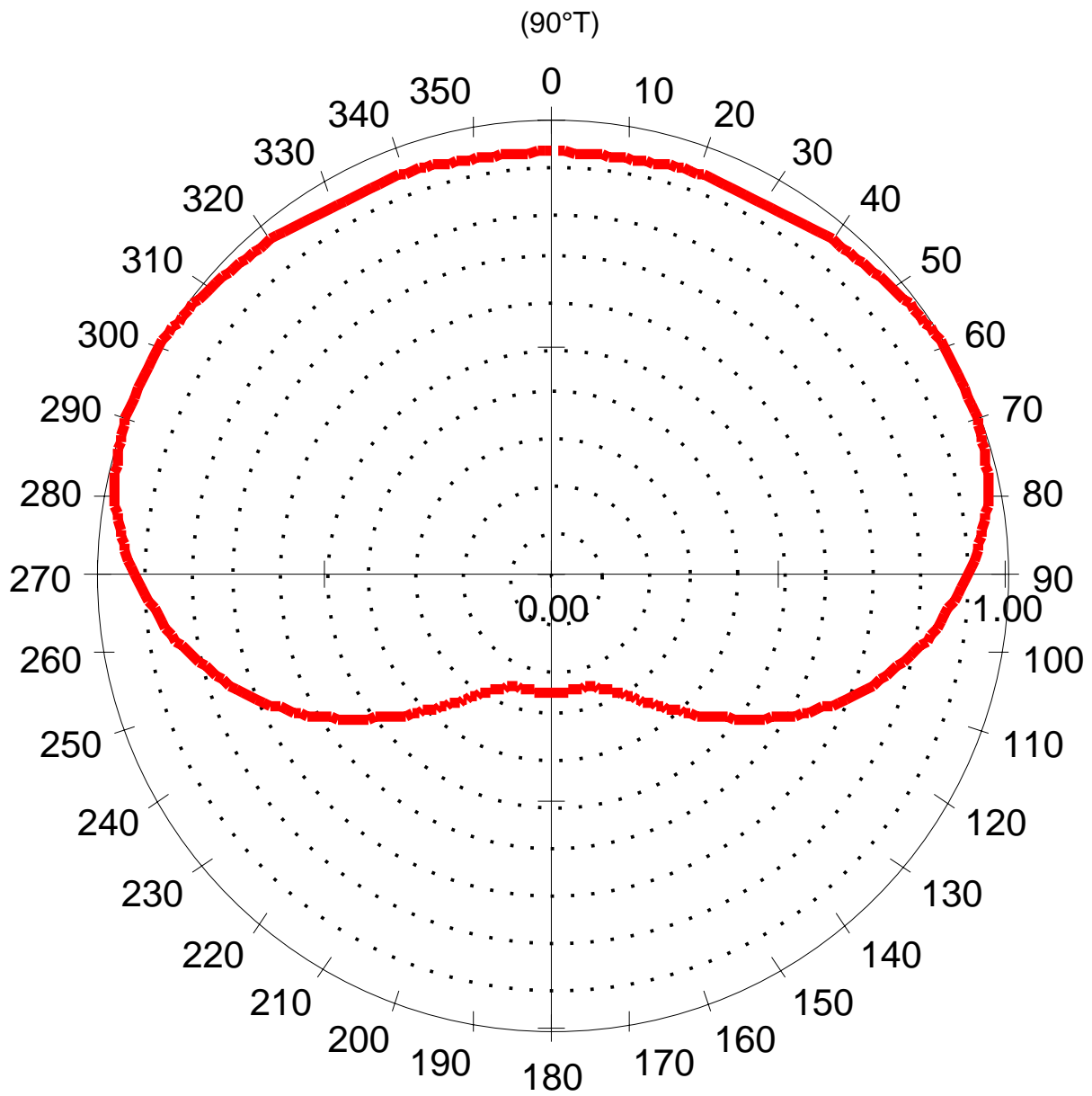
PREDICTED FCC COVERAGE CONTOURS

LPTV STATION K23GP

PARK CITY, UTAH

CH 23 95 KW (MAX-DA)

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



OET-69 NTSC, LPTV AND DTV INTERFERENCE CAUSED STUDY

CELL SIZE : 2.00
Using offset in determining thresholds

KTMW2 40-39-12 112-12-06 20(+) 1660.000 kw 2757 m DA 50.0 % 62.3 dBu

SALT LAKE CITY UT

LIC BLCT20010522AAZ

0.89	0.90	0.90	0.91	0.93	0.96	0.99	1.00	0.99	0.94	0.86	0.74
0.60	0.44	0.31	0.22	0.20	0.22	0.23	0.22	0.20	0.22	0.31	0.44
0.60	0.74	0.86	0.94	0.99	1.00	0.99	0.96	0.93	0.91	0.90	0.90

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	36743.78	1408556
not affected by terrain losses	23036.90	1356086

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -34.00

Interference	Area 0	Pop 0
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KTMW 40-39-12 112-12-06 20(+) 1660.000 kw 2757 m DA 50.0 % 62.3 dBu

SALT LAKE CITY UT

CP MOD BMPCT19990308KF

0.91	0.99	0.99	0.91	0.80	0.62	0.53	0.55	0.52	0.49	0.62	0.80
0.91	0.99	0.99	0.91	0.80	0.66	0.52	0.39	0.29	0.23	0.19	0.20
0.23	0.25	0.25	0.23	0.20	0.19	0.22	0.29	0.39	0.52	0.66	0.80

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	31335.39	1434168
not affected by terrain losses	19854.49	1368107

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -34.00

Interference	Area 0	Pop 0
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K22DE 40-39-33 112-12-08 22(N) 3.020 kw 2742 m DA 50.0 % 72.5 dBu

TOOELE UT

LIC BLTT19910607IE

1.00 0.80 0.40 0.15 0.09 0.07 0.06 0.06 0.06 0.06 0.07 0.07

0.08 0.08 0.06 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.07 0.07

0.08 0.08 0.06 0.06 0.06 0.06 0.06 0.06 0.09 0.18 0.46 0.81

(5.0 0.95)(355.0 0.95)

Ref Az: 210.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	364.1558	15306
not affected by terrain losses	344.1472	15306

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY UT

PROPOSED

0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74

0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49

0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -13.00

	Area	Pop
Interference	0	0

K23BV 42-23-22 111-23-05 23(N) 0.257 kw 2169 m 50.0 % 72.6 dBu

MONTPELIER ID

LIC BLTT19980709JF

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	161.0970	2043
not affected by terrain losses	157.0696	2043

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY UT

PROPOSED

0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74

0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49

0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

	Area	Pop
Interference	0	0

DKPVI 42-55-15 112-20-44 23(0) 1000.000 kw 2078 m DA 90.0 % 39.6 dBu

POCATELLO ID 33212 267 DTVSERVICE: 267000 NTSCSERVICE: 265000

DTVALT DTV ALLOTMENT

0.75 0.74 0.73 0.72 0.71 0.69 0.71 0.80 0.90 0.99 0.94 0.85
0.78 0.72 0.70 0.70 0.70 0.71 0.71 0.69 0.69 0.71 0.75 0.77
0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77
(89.0 1.00)(93.0 1.00)(94.0 1.00)

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	43083.20	282845
not affected by terrain losses	33174.75	265827

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY

UT

PROPOSED

0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	264

KPVI 42-55-15 112-20-44 23(N) 505.000 kw 2063 m DA 90.0 % 39.6 dBu

POCATELLO ID 33212 267 DTVSERVICE: 267000 NTSCSERVICE: 265000

CP BPCDT19991029AAY

1.00 0.98 0.93 0.88 0.92 0.95 0.90 0.77 0.63 0.49 0.32 0.18
0.19 0.19 0.18 0.18 0.20 0.18 0.19 0.31 0.49 0.63 0.77 0.90
0.96 0.92 0.89 0.92 0.98 1.00 0.99 0.92 0.86 0.87 0.87 0.98

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	30892.89	221011
not affected by terrain losses	24532.12	214340

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY

UT

PROPOSED

0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

K36AD2 42-07-30 111-46-30 23(N) 0.107 kw 1896.1 m DA 50.0 % 72.6 dBu

PRESTON ID

CP BPTT20031002ADK

1.00 0.94 0.83 0.80 0.93 1.00 0.98 0.92 0.83 0.71 0.58 0.41

0.14 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
0.13 0.40 0.56 0.71 0.82 0.92 0.98 0.98 0.89 0.78 0.83 0.95

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	67.94180	267
not affected by terrain losses	43.96234	229

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY

UT

PROPOSED

0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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K36AD 42-07-30 111-46-30 23(N) 0.107 kw 1896.1 m DA 50.0 % 72.6 dBu

PRESTON

ID

APP BPTT20030130AGN

1.00 0.94 0.83 0.80 0.93 1.00 0.98 0.92 0.83 0.71 0.58 0.41
0.14 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
0.13 0.40 0.56 0.71 0.82 0.92 0.98 0.98 0.89 0.78 0.83 0.95

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	67.94180	267
not affected by terrain losses	43.96234	229

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY

UT

PROPOSED

0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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K23FT2 40-21-45 110-47-31 23(N) 2.000 kw 3065.55 m DA 50.0 % 72.6 dBu

DUCHESNE

UT

LIC BLTT20031002ABR

1.00 0.80 0.40 0.15 0.09 0.07 0.06 0.06 0.06 0.06 0.07 0.07
0.08 0.08 0.06 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.07 0.07
0.08 0.08 0.06 0.06 0.06 0.06 0.06 0.06 0.09 0.18 0.46 0.81

(5.0 0.95) (355.0 0.95)

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	276.8980	305
not affected by terrain losses	244.7939	305

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K23GP	40-39-09	112-12-05	23(+)	95.000 kw	2710	m DA	10.0 %	72.6
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PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

	Area	Pop
Interference	0	0

K23FT 40-21-45 110-47-31 23(N) 0.490 kw 3068.35 m DA 50.0 % 72.6 dBu

DUCHESNE UT

APP BMPTT20020403ABA

[illegible]

Ref Az: 95.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	931.1491	570
not affected by terrain losses	806.7283	499

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K23GP	40-39-09	112-12-05	23(+)	95.000 kw	2710	m DA	10.0 %	72.6
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PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

	Area	Pop
Interference	0	0

NEW5 40-33-45 111-28-30 23(Z) 3.000 kw 2568 m DA 50.0 % 72.6 dBu

HEBER CITY UT

APP BNPTT20000831AWS

1.00	0.98	0.92	0.81	0.68	0.53	0.35	0.14	0.06	0.03	0.03	0.02
0.02	0.02	0.03	0.04	0.07	0.10	0.11	0.10	0.06	0.03	0.02	0.02
0.03	0.04	0.05	0.07	0.12	0.21	0.35	0.51	0.68	0.81	0.92	0.98

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

Area	Pop
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within Noise Limited Contour 689.3218 9810
not affected by terrain losses 601.1528 9319

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 28.00

Interference	Area 0	Pop 0
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NEW4 39-36-38 110-48-47 23(N) 1.730 kw 1802 m DA 50.0 % 72.6 dBu
PRICE UT

APP BNPTT20000830ACS

1.00	0.80	0.40	0.15	0.09	0.07	0.06	0.06	0.06	0.06	0.07	0.07
0.08	0.08	0.06	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.07	0.07
0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.09	0.18	0.46	0.81

Ref Az: 115.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	60.14988	10848
not affected by terrain losses	56.13988	10101

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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K23DR 40-17-56 109-58-25 23(N) 0.030 kw 1552 m DA 50.0 % 72.6 dBu
ROOSEVELT UT

LIC BLTTL19940223IJ

1.00	0.80	0.40	0.15	0.09	0.07	0.06	0.06	0.06	0.06	0.07	0.07
0.08	0.08	0.06	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.07	0.07
0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.09	0.18	0.46	0.81

(5.0 0.95)(355.0 0.95)

Ref Az: 280.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	12.04960	3503
not affected by terrain losses	8.033064	2721

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT
PROPOSED
0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93
Ref Az: 90.0
Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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K23FK 38-52-37 111-52-30 23(N) 0.160 kw 2022 m DA 50.0 % 72.6 dBu
SALINA & REDMOND UT
LIC BLTT20030815ADN
1.00 0.98 0.92 0.81 0.68 0.53 0.35 0.14 0.06 0.03 0.03 0.02
0.02 0.02 0.03 0.04 0.07 0.10 0.11 0.10 0.06 0.03 0.02 0.02
0.03 0.04 0.05 0.07 0.12 0.21 0.35 0.51 0.68 0.81 0.92 0.98
Ref Az: 345.0
Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	76.03302	594
not affected by terrain losses	60.02607	594

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT
PROPOSED
0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93
Ref Az: 90.0
Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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NEW3 39-42-40 111-09-20 23(N) 1.730 kw 2521.62 m DA 50.0 % 72.6 dBu
SCOFIELD UT
APP BNPTT20000830ACV
1.00 0.80 0.40 0.15 0.09 0.07 0.06 0.06 0.06 0.06 0.07 0.07
0.08 0.08 0.06 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.07 0.07
0.08 0.08 0.06 0.06 0.06 0.06 0.06 0.06 0.09 0.18 0.46 0.81
Ref Az: 0.0
Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	64.03207	44
not affected by terrain losses	64.03207	44

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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NEW2 39-42-40 111-09-20 23(N) 1.730 kw 2521.62 m DA 50.0 % 72.6 dBu
SCOFIELD UT
APP BNPTT20000830AIE

1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Ref Az: 12.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	132.0889	44
not affected by terrain losses	132.0889	44

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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NEW 40-33-59 111-14-31 23(Z) 0.450 kw 2309.8 m DA 50.0 % 72.6 dBu
WOODLAND & KAMAS UT
APP BNPTT20000831CMI

1.00	0.98	0.92	0.81	0.68	0.53	0.35	0.14	0.06	0.03	0.03	0.02
0.02	0.02	0.03	0.04	0.07	0.10	0.11	0.10	0.06	0.03	0.02	0.02
0.03	0.04	0.05	0.07	0.12	0.21	0.35	0.51	0.68	0.81	0.92	0.98

Ref Az: 20.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	43.99962	641
not affected by terrain losses	39.99965	641

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49

0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93
Ref Az: 90.0
Using DEFAULT vertical antenna pattern

D/U Baseline: 28.00

Interference	Area 0	Pop 0
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K23DS 41-21-06 110-54-20 23(N) 2.150 kw 2594 m DA 50.0 % 72.6 dBu

EVANSTON WY

LIC BLTT19940201JE

1.00	0.98	0.92	0.81	0.68	0.53	0.35	0.14	0.06	0.03	0.03	0.02
0.02	0.02	0.03	0.04	0.07	0.10	0.11	0.01	0.06	0.03	0.02	0.02
0.03	0.04	0.05	0.07	0.12	0.21	0.35	0.51	0.68	0.81	0.92	0.98

Ref Az: 190.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	392.4530	11461
not affected by terrain losses	376.4346	11406

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 45.00

Interference	Area 0	Pop 0
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KPNZ2 40-39-33 112-12-07 24(Z) 1514.000 kw 2814 m DA 50.0 % 62.7 dBu

OGDEN UT

LIC BLCT20020402AAK

0.97	0.99	0.99	1.00	0.90	0.73	0.54	0.51	0.50	0.51	0.70	0.87
0.97	0.99	0.99	1.00	0.90	0.70	0.54	0.51	0.50	0.51	0.70	0.87
0.97	0.99	0.99	1.00	0.90	0.73	0.54	0.51	0.50	0.51	0.70	0.87

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	37954.74	1439991
not affected by terrain losses	23031.12	1377248

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6

PARK CITY UT

PROPOSED

0.93	0.93	0.94	0.94	0.96	0.98	1.00	1.00	0.98	0.92	0.84	0.74
0.62	0.49	0.38	0.30	0.26	0.26	0.26	0.26	0.26	0.30	0.38	0.49
0.62	0.74	0.84	0.92	0.98	1.00	1.00	0.98	0.96	0.94	0.94	0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -3.00

Interference	Area 0	Pop 452

KPNZ 40-39-33 112-12-07 24(N) 450.000 kw 2814 m DA 90.0 % 39.7 dBu		
OGDEN UT		
CP BPCDT20010221ABA		
0.97 0.99 0.99 1.00 0.90 0.73 0.54 0.51 0.50 0.51 0.70 0.87		
0.97 0.99 0.99 1.00 0.90 0.73 0.54 0.51 0.50 0.51 0.70 0.87		
0.97 0.99 0.99 1.00 0.90 0.73 0.54 0.51 0.50 0.51 0.70 0.87		

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	56139.11	1514914
not affected by terrain losses	37807.97	1406865

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT
PROPOSED
0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

Interference	Area 0	Pop 0

KUWB 40-39-33 112-12-07 30(Z) 1486.000 kw 2818 m DA 50.0 % 63.3 dBu		
OGDEN UT 21299 1358 FCC NTSC BL: 1423356 FCC IX POP%: 0.0		
LIC BLCT20001019ABP		
0.96 1.00 0.99 0.97 0.87 0.70 0.50 0.48 0.47 0.48 0.67 0.84		
0.96 1.00 0.99 0.97 0.87 0.70 0.50 0.48 0.47 0.48 0.67 0.84		
0.96 1.00 0.99 0.97 0.87 0.70 0.50 0.48 0.47 0.48 0.67 0.84		

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	36082.23	1435925
not affected by terrain losses	21529.88	1373866

K23GP 40-39-09 112-12-05 23(+) 95.000 kw 2710 m DA 10.0 % 72.6
PARK CITY UT
PROPOSED
0.93 0.93 0.94 0.94 0.96 0.98 1.00 1.00 0.98 0.92 0.84 0.74
0.62 0.49 0.38 0.30 0.26 0.26 0.26 0.26 0.26 0.30 0.38 0.49
0.62 0.74 0.84 0.92 0.98 1.00 1.00 0.98 0.96 0.94 0.94 0.93

Ref Az: 90.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -30.00

	Area	Pop
Interference	0	0

SUMMARY OF CALCULATIONS

Facility	Channel	Type	Baseline	Permissible	IX	%Base
KTMW2, SALT LAKE CITY,	20	TV	1452488	0.5	0	0.00
KTMW, SALT LAKE CITY, U	20	TV	1434168	0.5	0	0.00
K22DE, TOOELE, UT	22	TV	15306	0.5	0	0.00
K23BV, MONTPELIER, ID	23	TV	2043	0.5	0	0.00
DKPVI, POCATELLO, ID	23	DTV	282969	0.5	264	0.09
KPVI, POCATELLO, ID	23	DTV	282969	0.5	0	0.00
K36AD2, PRESTON, ID	23	TV	267	0.5	0	0.00
K36AD, PRESTON, ID	23	TV	267	0.5	0	0.00
K23FT2, DUCHESNE, UT	23	TV	305	0.5	0	0.00
K23FT, DUCHESNE, UT	23	TV	570	0.5	0	0.00
NEW5, HEBER CITY, UT	23	TV	9810	0.5	0	0.00
NEW4, PRICE, UT	23	TV	10848	0.5	0	0.00
K23DR, ROOSEVELT, UT	23	TV	3503	0.5	0	0.00
K23FK, SALINA & REDMOND	23	TV	594	0.5	0	0.00
NEW3, SCOFIELD, UT	23	TV	44	0.5	0	0.00
NEW2, SCOFIELD, UT	23	TV	44	0.5	0	0.00
NEW, WOODLAND & KAMAS,	23	TV	641	0.5	0	0.00
K23DS, EVANSTON, WY	23	TV	11461	0.5	0	0.00
KPNZ2, OGDEN, UT	24	TV	1439634	0.5	452	0.03
KPNZ, OGDEN, UT	24	DTV	1514914	0.5	0	0.00
KUWB, OGDEN, UT	30	TV	1423356	0.5	0	0.00