

TECHNICAL EXHIBIT
SATELLITE REQUEST FOR STATION
KBEO-DT (FACILITY ID 35103)
JACKSON, WYOMING
CH 11 3.2 KW (MAX-DA) 327 M

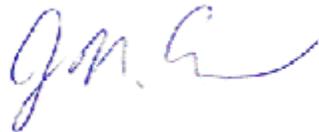
Technical Narrative

This Technical Exhibit supports a request for Television Satellite Status for station KBEO at Jackson, Wyoming. KBEO requests to operate as a satellite of co-owned station KPIF (Pocatello, ID).

KBEO and KPIF currently operate under an existing waiver of the local television multiple ownership rule (i.e., there is existing analog Grade B contour overlap). This overlap will continue to exist in the digital world if the predicted Noise-Limited contours for both stations are assumed to be the equivalent to the analog Grade B for ownership study purposes. Figure 1 is a coverage map showing the existing analog and proposed digital contours for KBEO (30 kW ERP/603 meters) and KPIF (1000 kW ERP/341 meters). As can be seen, there is proposed overlap between the predicted Noise-Limited contours. This overlap area amounts to 4,407 square kilometers in which 4,371 people reside. This represents 10.8% of the KBEO Noise-Limited service area and 6.4% of the population. It represents 17.4% of the KPIF Noise-Limited service area and 1.7% of the population.

While the map in Figure 1 does indicate some predicted overlap of DTV City Grade contours, it is apparent that the terrain between the stations will severely limit the actual overlap. Figure 2 is a site-to site terrain profile. As can be seen, the terrain between the stations is not favorable for propagation between the stations.

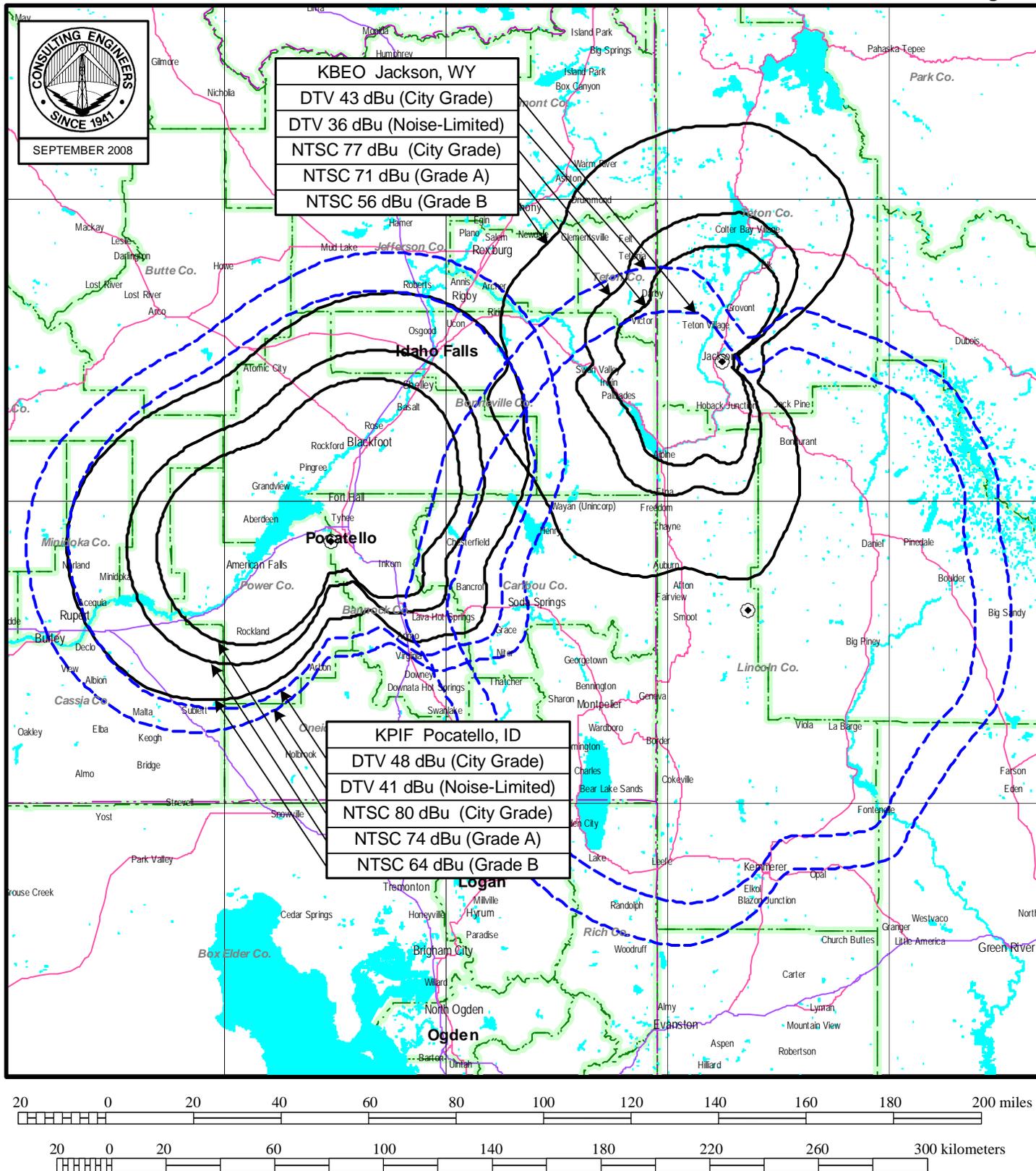
Figure 3 is a map showing the predicted “Longley-Rice” City Grade coverage for both KBEO-DT and KPIF-DT. As can be seen, there is little common overlap of the City Grade contours. Specifically, the Longley-Rice City Grade overlap area amounts to 14 square kilometers in which no people reside. This represents 0.1% of the KBEO Noise-Limited service area 0.2% of the KPIF Noise-Limited service area. For upper VHF station KBEO-DT, a 5 dB clutter factor was employed, while for UHF station KPIF-DT a 10 dB clutter factor was used. Further Longley-Rice assumptions for both stations are detailed in Figure 4.



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Figure 1

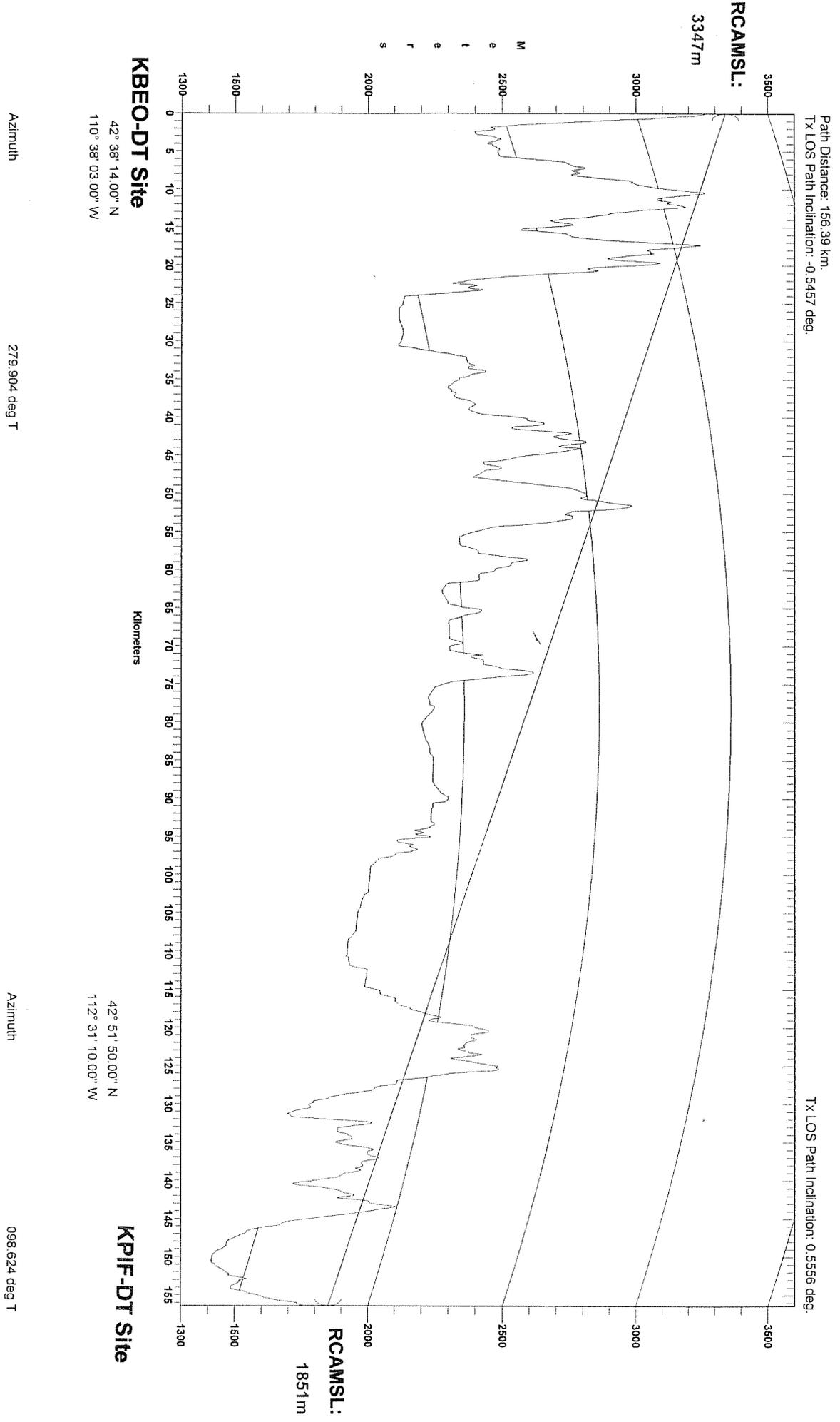


CONTOUR OVERLAP STUDY

STATIONS KPIF/KBE0

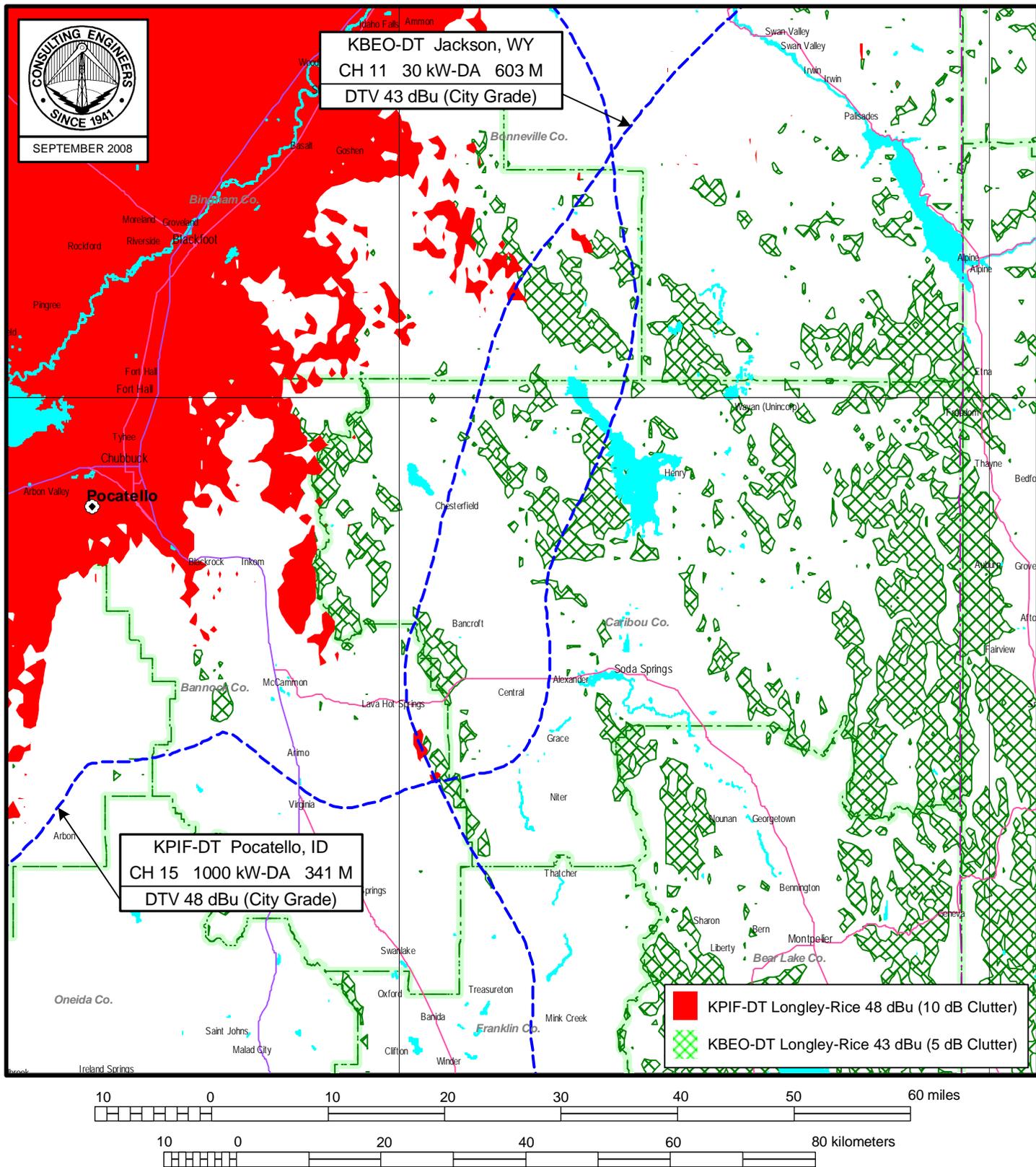
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Figure 2



KEY: Profile
K = 4/3

K = 4/3, F = 0.6F-1



CONTOUR OVERLAP STUDY

STATIONS KPIF/KBEO

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Figure 4

Propagation [32-bit Version]		Station Desc: KPIF_POCATELLO_ID	
Machine: JON		Coordinates 42-51-50	Vertical Antenna
Date and Time: 9/26/2008 1:59:38 PM		(NAD 27) 112-31-10	
System Description		RCAMSL: 1851 m	Antenna ID: 0
		RHAGL: 9.1 m	Electrical Tilt: 0 deg
Longley-Rice Calculations: Yes		ERP: 1000 kW	Mechanical Tilt: 0 deg
Tirem Calculations: No		Channel: 15	Mechanical Azimuth: 0 deg
Longley-Rice Grid File:		Frequency: 479 MHz	
I:\LR\KPIFAPP.txt		Polarization: Horizontal	-90.00 1.000 50.00 1.000
Terrain		Time: 90	
Database: 3 Second Terrain Database		Location: 50	
Location: o:\ned3\		Confidence: 50	
Spacing: 0.000833 deg		Permittivity: 15.0	
Increment: 0.1 km		Conductivity: 0.005	
		Refractivity: 301.0	
		Climate Code: 5.0	
		Humidity: 15.0	
		Advanced: Angle to Receiver	
		Grid File: No	
Grid Study		Horizontal Antenna	
Coordinates 042-45-00		Antenna ID: 87781	
(NAD 27) 111-35-00		Rotation: 0 deg	
Cell Size: 0.01 deg			
Dimensions: 300 x 300			
Number of Stations: 1			
		0.00 0.570 10.00 0.745	
		20.00 0.839 30.00 0.987	
		35.00 1.000 40.00 0.993	
		50.00 0.928 60.00 0.796	
		70.00 0.628 80.00 0.441	
		90.00 0.282 100.00 0.195	
		110.00 0.183 120.00 0.182	
		130.00 0.186 140.00 0.190	
		150.00 0.192 160.00 0.189	
		170.00 0.184 180.00 0.181	
		190.00 0.186 200.00 0.212	
		210.00 0.342 220.00 0.517	
		230.00 0.697 240.00 0.858	
		250.00 0.964 260.00 1.000	
		270.00 0.963 280.00 0.842	
		290.00 0.676 300.00 0.502	
		310.00 0.361 320.00 0.270	
		330.00 0.248 340.00 0.297	
		350.00 0.410 360.00 0.570	

Figure 4

Propagation [32-bit Version]		Station Desc: KBEO_JACKSON_WY	
Machine: JON		Coordinates 42-38-14	Vertical Antenna
Date and Time: 9/26/2008 2:14:53 PM		(NAD 27) 110-38-03	Antenna ID: 0
System Description		RCAMSL: 3347 m	Electrical Tilt: 0 deg
Longley-Rice Calculations: Yes		RHAGL: 9.1 m	Mechanical Tilt: 0 deg
Tirem Calculations: No		ERP: 30 kW	Mechanical Azimuth: 0 deg
Longley-Rice Grid File:		Channel: 11	
I:\NLR\KBEOAPP.txt		Frequency: 201 MHz	
Terrain		Polarization: Horizontal	-90.00 1.000 90.00 1.000
Database: 3 Second Terrain		Time: 90	
Database		Location: 50	
Location: o:\ned3\		Confidence: 50	
Spacing: 0.000833 deg		Permittivity: 15.0	
Increment: 0.1 km		Conductivity: 0.005	
Grid Study		Refractivity: 301.0	
Coordinates 042-45-00		Climate Code: 5.0	
(NAD 27) 111-35-00		Humidity: 15.0	
Cell Size: 0.01 deg		Advanced: Angle to	
Dimensions: 300 x 300		Receiver	
Number of Stations: 1		Grid File: No	
		Horizontal Antenna	
		Antenna ID: 87915	
		Rotation: 0 deg	
		0.00 0.980 10.00 0.950	
		20.00 0.875 30.00 0.775	
		40.00 0.630 50.00 0.470	
		60.00 0.350 70.00 0.230	
		80.00 0.220 90.00 0.225	
		100.00 0.230 110.00 0.225	
		120.00 0.220 130.00 0.230	
		140.00 0.350 150.00 0.470	
		160.00 0.630 170.00 0.775	
		180.00 0.875 190.00 0.950	
		200.00 0.980 210.00 1.000	
		220.00 0.975 230.00 0.940	
		240.00 0.920 250.00 0.925	
		260.00 0.950 270.00 0.970	
		280.00 1.000 290.00 0.970	
		300.00 0.950 310.00 0.925	
		320.00 0.920 330.00 0.940	
		340.00 0.975 250.00 1.000	
		360.00 0.980	