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Engineering Statement
supporting the
Minor Change Moves in LPTV Licensed Facilities
Baker, NV to Eskdale, UT
for coverage at Garrison, UT
Millard County

BACKGROUND

The applicant, Millard County, UT is operating eight LPTV translators located near Baker, NV on public lands. Applicant is moving all eight translators to Eskdale, UT to a site that is privately owned. Additionally, Millard County has a construction permit for K51JT-D in Baker, NV that is being displaced in another filing from 51 to channel 43 along with the move to Eskdale, UT. Millard County LPTV translators will continue to provide television programming service to the Baker, NV, Garrison, UT and Eskdale, UT communities. Thus continuity of TV programming will be maintained.

This minor change to the eight licensed LPTV facilities and the one additional digital displacement LPTV facility is a move to the northeast of approximately 18 km. This is within the allowed 48 km move allowed by the FCC.

The Millard County TV translator system will use four sets of two Scala 4DR-4S panels so two stations will share one set of panels using a two-way combiner. This will handle six of the translators. The fourth set of panels will use a three-way combiner instead so the last three translators will have one antenna system to themselves. The applicant believes the combiners and co-located antennas will provide acceptably low interference levels if there is any interference in fact. In any case, Millard County will make any necessary adjustments to resolve any interference problem(s) which may occur.

Millard County no longer operates the analog stations that are currently licensed to Millard County at Garrison, UT.

STATIONS ASSOCIATED WITH THIS MOVE

K35IR-D BPD TT20100524AAI; K36IR-D BPD TT20100524AAF; K38KB-D BPD TT20100524AAG;
K40JH-D BPD TT20100518AAH; K41KE-D BPD TT20100524AAN; K45JT-D BPD TT20100524AAM;
K47KS-D BPD TT20100524AAJ; K49JQ-D BPD TT20100524AAL; K51JT-D BDI STT20140416ABF.

INTERFERENCE CONSIDERATIONS

Interference to the following stations was studied using "Population Loss Studies" based on the "Longley-Rice Terrain Algorithm" in accordance with OET Bulletin 69.¹ Population loss for each station is less than 0.5% for full service and Class A stations and less than 2% for all LPTV stations. Cell size for service analysis is 1.0km/side and distance increments for Longley-Rice Analysis is 1.0km. Any stations not meeting the interference limits are listed and analyzed below.

NONE

Prepared By:
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¹ The analysis was performed on a Sun "Blade" Computer using the exact replica of the FCC program. Population losses of less than 0.5% are not reported in detail. Only an indication of no interference is shown.