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Technical Report Application for KLQQ.CP Auxiliary Facility

This technical report has been developed in support of an application for an auxiliary transmission facility for FM station KLQQ 285C0.CP at Clearmont, WY.

I. Site:

The auxiliary facility is to be located on the existing KROE(AM) tower, ASR no. 1009401, at coordinates:

44-47-54 N 106-55-51 W NAD 27

Exhibit E-1 shows that the auxiliary 60 dBu contour will be contained within the KLQQ 285C0.CP 60 dBu contour, in compliance with CFR §73.1675(a).

II. Antenna System and Environmental Considerations:

A Shively 6812B-1 antenna will be mounted on the existing tower at a COR AGL of 69 meters, and operate at an ERP of 0.300 kW. The RF contribution for the auxiliary facility was calculated using the Commission's FMMODEL program, which yields an RF to be $0.95 \mu\text{W}/\text{cm}^2$ at a distance of 69 meters from the tower, which is well below 5% of the maximum permissible $200 \mu\text{W}/\text{cm}^2$ exposure for general public exposure, allowing exclusion from consideration.

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III. Conclusion:

It is concluded that the auxiliary facility for KLQQ 285C0.CP is in full compliance with Commission rules and policies.



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E-1 KLQQ Auxiliary 60 dBu Plot

KLQQ New Aux

Latitude: 44-47-54 N
Longitude: 106-55-51 W
ERP: 0.30 kW
HAAT: 22.0 m
Channel: 285
Frequency: 104.9 MHz
RCAMSL Height: 1246.0 m
Site Elevation: 1177.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

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