

Broadcast Consultants  
1519 Euclid Avenue  
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## **Technical Report Application for KZWY Auxiliary Facility**

This technical report has been developed in support of an application for an auxiliary transmission facility for FM station KZWY 235C at Sheridan, 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 licensed KZWY 60 dBu contour, in compliance with CFR §73.1675(a).

### **II. Antenna System and Environmental Considerations:**

A Jampro JBCP-1H antenna will be mounted on the existing tower at a COR AGL of 71 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  $0.94 \mu\text{W}/\text{cm}^2$  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 KZWY is in full compliance with Commission rules and policies.

  
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# E-1 KZWY Auxiliary 60 dBu Plot

## KZWY New Aux

Latitude: 44-47-54 N  
Longitude: 106-55-51 W  
ERP: 0.30 kW  
HAAT: 24.0 m  
Channel: 235  
Frequency: 94.9 MHz  
RCAMSL Height: 1248.0 m  
Site Elevation: 1177.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

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