PROPOSED STA FACILITIES
Evangelistic Alaska Missionary Fellowship, Inc.
North Pole, AK

The proposed KJNP-DT STA facilities will employ a maximum effective radiated power of 15 kilowatts utilizing a directional antenna mounted at the 18.3 meter level on an existing tower at the KJNP-TV studio location which presently supports the antennas for broadcast auxiliary STL facilities. This is the same tower authorized for use by KJNP-DT in its initial DTV consruction permit (BPCDT-20040527ALP).

Table 21.0 presents a summary of the effective radiated power calculations for these proposed STA facilities. As shown in this table, a transmitter power output of 0.450 kilowatts will be required to achieve the proposed directional effective radiated power of 15 kilowatts.

Figure 21.0 is a map exhibit depicting the predicted 41 dBu and 48 dBu contours for these proposed STA facilities in relation to the predicted 41 dBu contour for the facilities specified in KJNP-DT's DTV allotment. As shown in this map exhibit, the predicted 41 dBu contour for these proposed STA facilities will be totally encompassed within the 41 dBu contour for these DTV allotment facilities. Thus, these proposed DTV STA facilities are deemed to comply with all applicable allocation requirements. This map exhibit also depicts the North Pole city limits and clearly shows that the predicted 48 dBu contour for these proposed STA facilities will totally encompass the city of North Pole. Thus, these proposed STA facilities will fully comply with the applicable principal community coverage requirements.

The proposed KJNP-DT STA facilities will fully comply with the FCC standard regarding human exposure to nonionizing radiation. Equation (2), found on Page 30 of

TABLE 21.0

PROPOSED KJNP-DT
STA FACILITIES
Evangelistic Alaska Missionary Fellowship, Inc.
North Pole, AK

Transmitter Power Output:	0.45 kilowatts
Transmission Line Efficiency: (150 feet(45.72 meters) Dielectric FLF-29(0.614 dB/100'))	80.9%
Antenna Power Gain: (RFT CS-2030-SP-14)	41.18
Maximum Effective Radiated Power:	15.0 kilowatts