

EXHIBIT 43  
(Page 1 of 2)

NONIONIZING RADIATION COMPLIANCE  
Evangelistic Alaska Missionary Fellowship, Inc.  
North Pole, AK

The proposed KJNP-DT facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed KJNP-DT facilities will operate with an effective radiated power of 0.081 kilowatts using an omnidirectional antenna that will be mounted with its center of radiation 15.2 meters above ground level on an existing 24.4 meter tower. Equation (2), found on Page 30 of Supplement A to OET Bulletin 65, details the calculation technique used to determine the power density at the base of a TV broadcast tower. In this case, however, it is necessary to substitute the proposed average DTV effective radiated power (0.081 kilowatts) for the expression  $[0.4ERP_v + ERP_A]$  in this equation to compensate for the fact that DTV power levels are expressed in terms of average power, rather than peak power, as is the case for the visual portion of an analog TV signal. Assuming 100% downward radiation for the proposed facilities, this equation predicts a worst case power density at two meters above ground level of  $15.5 \mu\text{W}/\text{cm}^2$ . Since the maximum permitted power density for uncontrolled exposure on TV Channel 20 is  $337.3 \mu\text{W}/\text{cm}^2$ , this amounts to only 4.6% of the permitted level for uncontrolled exposure. Since this value is less than 5% of the permitted level, the proposed KJNP-DT facilities are excluded from environmental processing and need not be considered in conjunction with other co-located and nearby facilities to establish compliance with this standard for uncontrolled exposure.

These proposed KJNP-DT facilities will also take appropriate steps to insure that workers who must climb this tower will not be exposed to power density levels that ex-

EXHIBIT 43  
(Page 2 of 2)

ceed the permitted level for controlled exposure. These steps will include a reduction in power or the cessation of operation, as appropriate, at any time that workers must be on this tower in any area where the power density levels exceed the permitted level for controlled exposure.