

MINOR CHANGE APPLICATION
RADIO LICENSE HOLDING CBC, LLC
NEW FM TRANSLATOR STATION
CH 2371D - 95.3 MHZ - 0.20 KW
NAMPA, IDAHO
April 2018

EXHIBIT C

Radio Frequency Radiation Study

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study utilizes the appropriate formulas contained in the OET Bulletin.

The proposed new translator's antenna will be mounted with its center of radiation 113.0 meters (370.7 feet) above the ground at the tower location and will operate with an effective radiated power of 0.20 kilowatt in the vertical and horizontal planes (circularly polarized). The proposed new translator will operate with a one bay antenna (FCC Type 4). At 2.0 meters above the ground at the base on the tower, the proposed new translator's antenna will contribute 0.000314 mw/cm^2 .¹ Based on exposure limitations for a controlled environment, 0.1% of the allowable limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 0.2% of the ANSI limit is reached at 2.0 meters above the ground at the tower base.

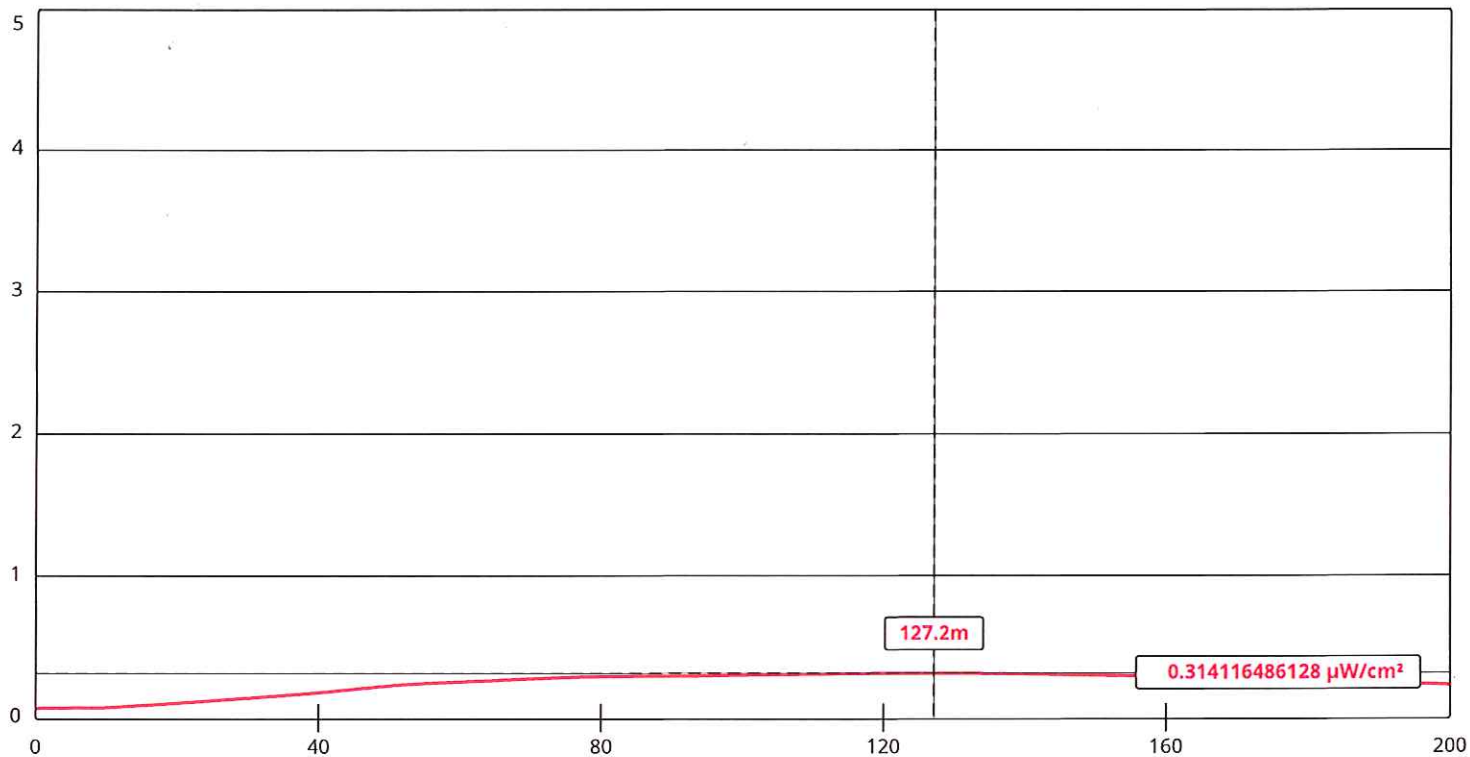
Since this level for uncontrolled environments is below the 5.0% limit defined by the Commission in §1.1307(b)(3)(i) of the rules, the proposed new translator facility is believed to

1) This level of signal is delivered 127.2 meters from the base of the tower and is considered a worst case scenario.

be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, RLH will ensure warning signs are posted in the vicinity of the tower and at the gated access point warning of potential radio frequency radiation hazards at the site. In addition, RLH will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.

FM Model

The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data [published in 1985 by the EPA](#)



[View Tabular Results +](#)

Channel Selection

[Antenna Type +](#)

Height (m)

ERP-H (W)

Num of Elements

Num of Points

Channel 237 (95.3 MHz) ▼

EPA Type 4: Two-Piece Spiral ▼

113

Distance (m)

200

ERP-V (W)

1

Element Spacing (λ)

500

200

200

1

Apply

EXHIBIT C1
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