

ENVIRONMENTAL STUDY

**ENTRAVISION HOLDINGS, LLC
STATION WUVN-DT HARTFORD, CONNECTICUT
CH 46 100 KW (MAX-DA, BT) 244 METERS**

Entravision Holdings, LLC (Entravision) proposes herein to operate the digital television (DTV) facilities of WUVN-DT, channel 46 (662 to 668 megahertz (MHz)), Hartford, Connecticut, at a transmitter site located at geographic coordinates 41° 42' 02" North Latitude, 72° 49' 57" West Longitude (referenced to 1927 North American Datum), using a horizontally polarized antenna, 100 kilowatts (kW) maximum average effective radiated power (ERP), and 244 meters antenna radiation center height above average terrain. The proposed WUVN-DT antenna radiation center is 124 meters above ground level (AGL).

Public access to the WUVN-DT antenna and supporting structure will be restricted by a gated and locked, two-meter chain link fence topped with barbed wire. There will be no casual or inadvertent access to the WUVN-DT transmitter site by the general public.

An analysis has been made of the human exposure to RFR using the calculation methodology described in *OET Bulletin 65, Edition 97-01*, prepared by the FCC Office of Engineering and Technology. A conservative vertical plane relative field factor of 0.1, obtained from the manufacturer's theoretical vertical plane radiation pattern for the WUVN-DT, Andrew, type ATW25H3-HTO-46S, transmitting antenna, was used in the calculation of the WUVN-DT power density. The WUVN-DT maximum average ERP of 100 kW was used in the calculation of WUVN-DT power density. To account for ground reflections, a coefficient of 1.6 was included in the calculation. The WUVN-DT power density calculations reported herein were made at 662 MHz, the lower edge of the WUVN-DT channel.

The FCC maximum permissible exposure (MPE) limit for general population/uncontrolled exposure is 0.44 milliwatt-per-square-centimeter (mW/cm²) at 662 MHz. The FCC MPE limit for occupational/controlled exposure is 2.21 mW/cm² at 662 MHz. At a reference point two meters AGL at the base of the WUVN-DT supporting structure, the calculated WUVN-DT power density is 0.0022 mW/cm², which is 0.5 percent of the FCC MPE limit for general population/uncontrolled exposure, and 0.0995 percent of the FCC MPE limit for occupational/controlled exposure.

Pursuant to the provisions of *OET Bulletin 65, Edition 97-01*, at multiple-user transmitter sites, only those licensees whose transmitters produce power density levels in excess of 5.0 percent of the applicable exposure limit are considered “significant contributors” and share responsibility for actions necessary to bring the local RFR environment into compliance with FCC exposure limits. Since the WUVN-DT operation will contribute less than 5.0 percent of the most restrictive permissible exposure at any location on the ground at the multiple-user site, WUVN-DT is not considered a “significant contributor” to the local RF exposure environment and contributions to exposure from other sources in the vicinity of WUVN-DT were not taken into account in this analysis.

While not a “significant contributor” to the exposure levels at any location on the ground, the WUVN-DT operation will be a “significant contributor” to exposure at locations on the supporting structure near the WUVN-DT transmitting antenna. If work is done on the tower in an area where overexposure could occur, WUVN-DT will take action necessary to prevent the overexposure of workers on the tower including reducing WUVN-DT transmitter power or ceasing WUVN-DT operation completely. Additionally, Entravision will cooperate with other site users to assure that work is performed at the site without exceeding the FCC MPEs for occupational/controlled exposure.

The instant proposal is categorically excluded from environmental processing since none of the conditions of Sections 1.1306(b)(1), (2), or (3) of the FCC Rules would be involved for the following reasons:

1. The WUVN-DT channel 46 DTV facility will utilize a supporting structure that is not in or near any location referenced in Section 1.1306(b)(1) of the FCC Rules as being of environmental interest.

2. The provision of Section 1.1306(b)(2) of the FCC Rules relating to the use of high-intensity strobe lighting does not apply since WUVN-DT transmitter site is not located in a residential area.

3. Finally, with regard to RFR exposure concerns, compliance with applicable FCC MPE limits would be achieved.