

**NCE TECHNICAL CERTIFICATION
ENVIRONMENTAL EFFECT**

**IN SUPPORT OF A MINOR CHANGE APPLICATION
WDDE, DOVER, DELAWARE
APRIL 2022**

This technical exhibit has been prepared on behalf of Delaware First Media Corporation, licensee of NCE Class A FM station WDDE, Dover, DE, (Facility ID 175387). The exhibit is in support of a minor change application to increase the effective radiated power utilizing a directional antenna and change FM Class to a B1. WDDE will continue operation on Channel 216 (91.1 MHz) at the current licensed antenna site.

SECTION 1.1307 (a)(b) - ENVIRONMENTAL EFFECT

As previously stated, the proposed WDDE, Dover, DE transmitting antenna will operate from an existing tower, ASR number 1034028. Therefore, major environmental issues are not considered pertinent.

An evaluation has also been made to determine compliance with the Commission's specified standards for human exposure to RF fields as set forth in the OET Bulletin No. 65 dated August 1997. Utilizing the FCC FM Model online calculator for an EPA type 1 antenna, 3 Bay halfwave spaced with 15,000 watts ERP H+V and R/C above ground of 66 meters, the proposed WDDE NCE FM operation would have a maximum of 16.1 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$) RF field. This value represents 8.1 percent of the 200 microwatts public exposure guidelines.

The Commission's guidelines for the FM band are 1,000 $\mu\text{W}/\text{cm}^2$ for the occupational/controlled and 200 $\mu\text{W}/\text{cm}^2$ for the general population/uncontrolled environment.

The above analysis indicates that members of the public and personnel working around the tower of the proposed NCE FM operation would not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, the new NCE station in coordination with other users will establish procedures to ensure that workers are not exposed to RF fields above the Commission's guidelines, by reducing or turning off the power, as appropriate.

For the reasons stated above, the applicant believes this proposal complies with Section 1.1307(a) and (b) of the Commission's Rules; therefore, under Section 1.1306, it is categorically excluded from environmental processing.