

**NCE TECHNICAL CERTIFICATION
ENVIRONMENTAL EFFECT**

**IN SUPPORT OF A NCE-FM RESERVED
CHANNEL CONSTRUCTION PERMIT APPLICATION
LEWES, DELAWARE
OCTOBER 2021**

This technical exhibit has been prepared on behalf of Delaware First Media Corporation, licensee of NCE Class A FM station WDDE, Dover, DE. It is in support of a new NCE FM station at Lewes, DE, and are in response to the Commission's procedures and requirements for the November 2-9 2021, NCE-FM window filing.

SECTION 1.1307 (a)(b) - ENVIRONMENTAL EFFECT

As previously stated, the proposed NCE FM Lewes, DE transmitting antenna will operate from an existing tower, ASR number 1210663. 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. For a maximum effective radiated power of 6.0 kW (H+V) and a radiation center of 71.5 meters above ground level, the proposed Lewes NCE FM operation would have a maximum of 10.4 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$) RF field at 2 meters above the base of tower assuming an antenna field factor of 0.5 in the downward direction. 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.

According to the applicant, the proposed NCE tower site has a security fencing 5 feet high on two sides of the property limiting public access to the tower in conjunction

with the private property of a sub-station of the Rehoboth Beach volunteer fire station. The security fencing and private property surrounding the antenna site would restrict access to the tower.

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-FM 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, we believe 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.