



**ENGINEERING STATEMENT**  
**OF**  
**BENJAMIN L. PIDEK, P.E.**  
**IN SUPPORT OF**  
**APPLICATION FOR CONSTRUCTION PERMIT**  
**POST-INCENTIVE AUCTION ASSIGNMENT FACILITY**  
**WSEE-TV**  
**ERIE, PA**

**Background**

Lilly Broadcasting of Pennsylvania License Subsidiary, LLC (Lilly) is the licensee of WSEE, located at Erie, PA which is presently authorized to operate its digital facility on Channel 16 with the following parameters:

**Pre-Incentive Auction Facility (Ch. 16)**

Coordinates: 42° 03' 52.2" N (NAD83)  
80° 00' 18.2" W  
ERP: 75.0 kW (DA)  
RCAMSL: 614.0m

WSEE has been assigned Ch. 21 for its post-incentive auction facility with the following parameters:

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SYSTEMS ENGINEERING**

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REGIONAL OFFICE  
6197 MILLER RD.  
SWARTZ CREEK, MI 48473

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### Post-Incentive Auction Facility (Ch. 21)

Coordinates: 42° 03' 52.2" N (NAD83)  
80° 00' 18.2" W  
ERP: 84.5 kW (DA)  
RCAMSL: 614.0m

### **Antenna System and Tower**

The existing side-mounted directional WSEE Ch. 16 antenna [Dielectric TLP-24M(C)] is a coaxial slot antenna that is channel specific and not usable on Ch. 21. Lilly intends to replace the existing side-mounted antenna with a new directional coaxial slot antenna for Ch. 21 [Dielectric TLP-24MTLP(C)]. The azimuth and elevation patterns and dBk table for the proposed antenna have been attached to the application.

The antenna will be installed on a registered tower (ASR#1221626). The replacement of the side-mounted antenna will result in no change to the overall height of the structure; therefore, neither notification to the FAA nor modification to the ASR is necessary.

The antenna manufacturer was able to replicate the exact same antenna azimuth pattern in the new antenna as that of the assigned repack antenna azimuth pattern so there will be no change from the assigned post-repack facility parameters.

### **Coverage**

The entire principal community of Erie, PA is well within the predicted F(50,90) 48 dBu contour based on the proposed directional 84.5 kW ERP.

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## **Interference**

Lilly is not seeking to expand the WSEE noise-limited service contour beyond the noise-limited contour of its assigned post-incentive auction facility in any direction; therefore, no interference analysis is required to be submitted with this application.

## **Environmental/RFR**

This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation (RFR). Any other non-RFR conditions that might require the preparation of an EA are beyond the scope of this report; since the structure is existing and registered, such conditions should not be an issue requiring further consideration.

The location of the proposed post-incentive auction facility is assumed to be currently “in compliance” with FCC guidelines for human exposure to RFR (as defined in OET-65). The worst case ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.001705 mW/cm<sup>2</sup>, which is less than 5% of the MPE for public exposure (0.343333 mW/cm<sup>2</sup>) at Ch. 21 (512-518 MHz). The contribution to the overall RFR from the proposed facility is negligible and, therefore, the site will remain “in compliance” with FCC guidelines.

Lilly agrees to comply with the Commission’s requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of potential RFR hazards is posted.

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### **Certification**

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.

A handwritten signature in black ink, appearing to read "B. Pidek", written over a horizontal line.

Benjamin L. Pidek, P.E.  
July 10, 2017

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