

**ENGINEERING REPORT
MINOR CHANGE APPLICATION**

For FM Station

WSKE(FM) – Everett, PA
Channel 282A – 104.3 MHz

File No. BMLH-19900803KB

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(Exhibit Numbering is in response to FCC Online Form 301, Section III-B)

DISCUSSION OF REPORT

This firm was retained to prepare the required engineering report in support of a minor change for FM Station WSKE(FM) Everett, PA, License BMLH-19900803KB. WSKE(FM) is currently licensed to operate with 0.680 kW ERP (H)&(V) at 295 m HAAT or near full Class A equivalent parameters. In response to a recent tower accident, WSKE(FM) is requesting relocation to a nearby Tussey Mountain Radio Tower owned by the Pennsylvania Turnpike Commission. Full Class equivalent operating parameters of 0.82 kW at 270 meters HAAT are requested. The facility will continue to serve Everett on Channel 282A.

The proposed site for the Class A operation meets all the spacing requirements of 47 C.F.R. §73.207 toward other stations in the allocation. A tabulation of the existing and required spacing toward each of the other relevant stations is found in **Exhibit 24.1**. Additional tabulations will be supplied to the Commission upon request.

The proposed service contours have been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found as **Exhibit 22.1** of this report. This exhibit shows the 3.16 mV/m contour that serves the community of license, and the overall service provided by the 1.0 mV/m contour of the facility. The tabulation of the distances to the respective contours shown in this discussion is based on the use of the standard eight cardinal bearings, which were also used for the computation of the HAAT. However, the plotted contours shown in **Exhibit 22.1** and the contour used as the basis of the area and population computations shown in **Exhibit 22.1**, are based on the use of a full 360 terrain radials. The 03 second NED terrain database has been used in calculation of both HAAT and contour distance computations.

The antenna will be mounted on top of an existing structure. FCC TOWAIR has been consulted and the addition of this antenna does not require FAA approval or FCC Antenna Structure Registration. A portion of the topographical map showing the proposed site has been included as **Exhibit 21.1**. A copy of the vertical antenna plan has been included as **Exhibit 21.2**.

The remainder of the information in this report and exhibit numbering is responsive to the Rules of the Commission, and provides the data for FCC Online Form 301, Section III-B.

DISCUSSION OF REPORT (continued)

The FM Broadcast facility proposed in this application is within the controlled and uncontrolled limits as set forth in the RF Exposure Compliance Worksheets, Worksheet #3, issue May 1999. A copy of Worksheet #3 will be supplied upon request. The RF radiation will not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1307(b) of the Commission's rules. The facility will be properly marked with signs, and entry will be restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed.

In the event work would be required in proximity to the antenna such that the person or persons working in the area would be potentially exposed to fields in excess of the guidelines set forth in OET Bulletin No. 65 (Edition 97-01), the transmitter power will be reduced or the station will cease operation during the critical period.

DISTANCES TO CONTOURS: The table below shows the distances to the 3.16 mV/m and 1.0 mV/m contours from the proposed facility using an ERP of 0.82 kW at an HAAT of 270 meters. These distances have been calculated based on the FCC F(50-50) curves.

N. Lat. = 40 00 11 W. Lng. = 78 23 58							
HAAT and Distance to Contour - FCC Method - 03 Arc Sec.							
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	70-F5
000	451.1	219.9	0.8200	-0.86	1.000	25.69	14.49
045	366.3	304.7	0.8200	-0.86	1.000	30.02	17.25
090	368.5	302.5	0.8200	-0.86	1.000	29.92	17.19
135	413.1	257.9	0.8200	-0.86	1.000	27.70	15.72
180	424.2	246.8	0.8200	-0.86	1.000	27.15	15.36
225	382.4	288.6	0.8200	-0.86	1.000	29.23	16.75
270	434.0	237.0	0.8200	-0.86	1.000	26.64	15.04
315	365.6	305.4	0.8200	-0.86	1.000	30.06	17.27
Ave El= 400.66 M HAAT= 270.34 M AMSL= 671 M							