

ENGINEERING STATEMENT

This engineering data contained herein have been prepared on behalf of EASTERN US TAIWAN CULTURE PROMOTION ASSOCIATION, INC., permittee of WQET-LP, a new LPFM station on Channel 300L1 in Middletown, New York, in support of this application for modification of Construction Permit BMPL-20150605ACL. The purpose of this application is to specify a new site.

It is proposed to mount a one-bay circularly polarized antenna at the 20-meter level on top of an existing 19.2-meter tower. The predicted service contour of the newly proposed facility is plotted in Exhibit B and a new power density calculation is provided in Exhibit C.

Due to the diminutive height of the existing antenna supporting structure with its proposed top-mounted antenna and the structure's proximity to the nearest airport runway, the FAA has not been notified of this application, nor is FCC antenna structure registration required. This conclusion is supported by the Commission's Towair software.

I declare under penalty of perjury that the foregoing statements and the attached exhibits are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

December 16, 2016

Proposed Site
BMPL-20150605ACL
Latitude: 41-28-15.60 N
Longitude: 074-27-42.70 W
ERP: 0.06 kW
Channel: 300
Frequency: 107.9 MHz
AMSL Height: 255.0 m
Elevation: 224.994 m
Horiz. Pattern: Omni
Vert. Pattern: No

CONTOUR POPULATION
2015 U.S. CENSUS DATA
56,843 (21,746 HH)



PROPOSED 60 DBU
FCC CONTOUR

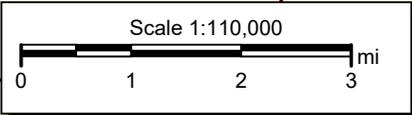
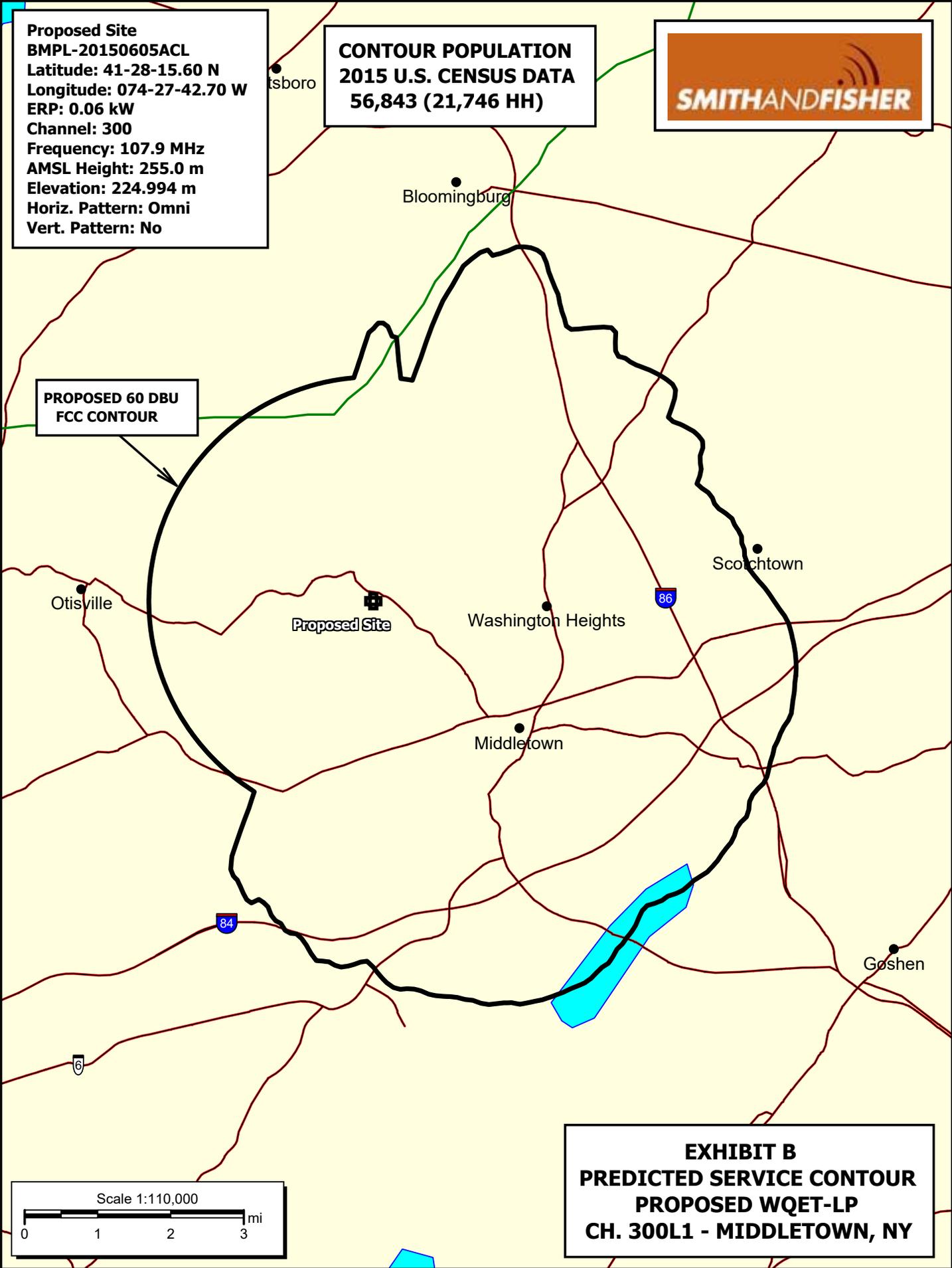


EXHIBIT B
PREDICTED SERVICE CONTOUR
PROPOSED WQET-LP
CH. 300L1 - MIDDLETOWN, NY

POWER DENSITY CALCULATION
PROPOSED LPFM STATION WQET-LP
CHANNEL 300L1 – MIDDLETOWN, NEW YORK
[MODIFICATION OF BMPL-20150605ACL]

Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 60 watts (H,V), an antenna radiation center 20 meters above ground level and assuming a relative field value of 40 percent at the steeper elevation angles for the proposed antenna, maximum power density two meters above ground of 0.0020 mW/cm^2 is calculated to occur near the base of the antenna supporting structure. Since this RF value is only 1.0 percent of the 0.20 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating in the FM band, a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing electromagnetic radiation.