

ENGINEERING STATEMENT

This engineering data contained herein have been prepared on behalf of JAMESTOWN INSPIRATIONAL MEDIA, INC., licensee of Low Power FM station WSAB-LP, Channel 223L1 in Jamestown, Tennessee, in support of this Application for Construction Permit to specify operation at a new transmitter site, located 5.4 kilometers from the present site.

It is proposed to mount the licensed one-bay circularly-polarized antenna at the top of a proposed 13.7-meter supporting structure for an overall height of 16.8 meters above ground. The predicted service contour of the newly proposed facility is plotted in Exhibit B and a spacing study is presented in Exhibit C, showing that the proposed site meets all of the separation requirements to co-channel and adjacent-channel facilities. A new power density calculation is provided in Exhibit D.

Due to the diminutive height of the structure and its 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

September 28, 2021

CONTOUR POPULATION
2018 U.S. CENSUS DATA
5,778 (2,863 HH)

SMITH AND FISHER, LLC

FCC 60 DBU
CONTOUR

Jamestown

Proposed Site

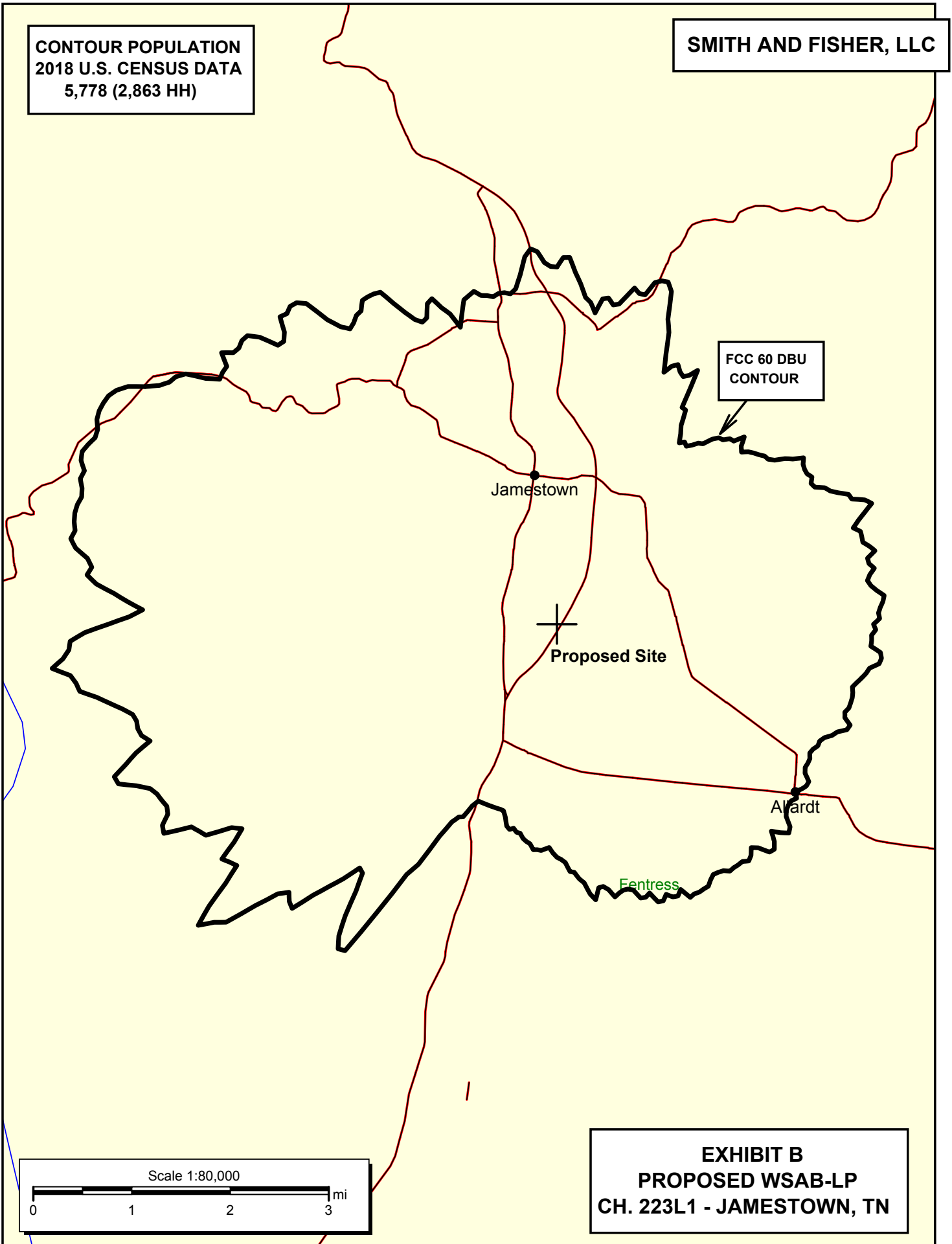
Alardt

Fentress

Scale 1:80,000

0 1 2 3 mi

EXHIBIT B
PROPOSED WSAB-LP
CH. 223L1 - JAMESTOWN, TN



PROPOSED WSAB-LP
CH. 223L1 - JAMESTOWN, TENNESSEE

REFERENCE			DISPLAY DATES
36 24 20.0 N.	CLASS = L1		DATA 09-27-21
84 55 40.4 W.	Current Spacings to 2nd Adj.		SEARCH 09-28-21
----- Channel 223 - 92.5 MHz -----			

Call	Channel	Location		Azi	Dist	FCC	Margin
WSAB-LP	LIC 223L1	Jamestown	TN	350.4	5.41	23.5	-18.1
WIJTV	LIC-Z 224A	Harriman	TN	143.2	74.50	55.5	19.0
WHVE	LIC-Z 224A	Russell Springs	KY	343.7	77.78	55.5	22.3
WDEF-FM	LIC 222C0	Chattanooga	TN	194.3	145.43	110.5	34.9
WYGE	LIC-Z 222C2	London	KY	44.9	117.51	79.5	38.0
WMIK-FM	LIC 224A	Middlesboro	KY	78.0	103.64	55.5	48.1

All separation margins include rounding

EXHIBIT D

POWER DENSITY CALCULATION
PROPOSED WSAB-LP
CHANNEL 223L1 – JAMESTOWN, TENNESSEE

Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 10 watts (H,V), an antenna radiation center 15.2 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 0.00058 mW/cm^2 is calculated to occur near the base of the antenna supporting structure. Since this RF value is only 0.3 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.