

T Z SAWYER TECHNICAL CONSULTANTS

2130 HUTCHISON GROVE COURT, SUITE 100
FALLS CHURCH, VIRGINIA 22043
TELEPHONE (703) 848-2130

KTUB (AM) ENGINEERING STA REQUEST CENTERVILLE, UTAH FACILITY ID: 69557

OCTOBER 2023

Engineering Narrative

By means of the instant application, the applicant proposes to operate with a temporary antenna system at 2125 West 9000 South, West Jordan, Utah.

Statement of Need and Public Interest:

Licensee proposes to return to the air upon grant of this STA request and within the 12-month silent period that elapses at 12:01 AM October 18, 2023. KTUB (AM) is diligently searching for a new permanent site for its use at one of four possible sites recently identified by this office. The current license site is no longer available for its use, and the station has been silent under Special Temporary Authority to remain silent File Number: 0000214632.

A grant of this request is in the public interest as it will allow the station to resume service to its community and the surround area, and does not cause harmful interference to any known broadcast facility. The proposed service contour from this proposal is wholly contained within the licensed service contour.

Proposed Operation:

The applicant proposes to operate (during all hours) on its licensed frequency of 1600 KHz (Class B facility) with a maximum antenna input power of 0.010 kW (10 watts) using an pole mounted elevated center-loaded whip antenna, elevated at 20 feet above ground level with an overall whip length of 12 feet.

The details of the proposed operation are:

Proposed KTUB (AM) STA Operation

NAD 83 DATUM	PROPOSED (DD-MM-SS.S)
LATITUDE	40-35-12.5 N
LONGITUDE	111-56-46.9 W
ANTENNA STRUCTURE REGISTRATION	NOT REQUIRED
SUPPORTING STRUCTURE	20 FOOT POLE

ANTENNA SYSTEM ISS-ANXX VERTICAL WHIP ANTENNA	PROPOSED
Electrical Description	A vertical center-loaded whip antenna elevated 20 feet above ground level, whip approximate length 12 feet in length (144.7")
Theoretical RMS (at 1600 KHZ)	121.96 mV/m/kW at 1 km 12.2 mV/m at 10 watts at 1 km.
Overall Height (AGL)	9.75 meters (32 feet) Tip Height Above Ground
Antenna Registration	Not Required Passes FCC TowerAir slope test No FAA Required Passes FAA notification tool
Antenna Input Power (non-directional, all modes)	0.010 kW Day 0.010 kW Night
Antenna Ground System	10 foot radius ground plane (32 wire radials)

Allocation Study:

KTUB (AM) is licensed on 1600 kHz with a daytime nondirectional power of 5 kilowatts and a nighttime directional power of 1.0 kilowatt, as a Class B station.

This proposal seeks STA operation using an elevated center loaded vertical whip antenna with an antenna input power of 0.010 kilowatts (10 watts) and an estimated antenna radiated field of approximately 12.2 mV/m at the requested input power per

kilometer.

As shown on the included contour map, the proposed 0.5 mV/m service contour is wholly contained within the existing licensed contour of the station. Soil conductivity values were obtained from the FCC M3 database (or R2 database, if appropriate) and have been used to calculate and plot the contours in combination with the existing and proposed antenna radiated field values.

Environmental Considerations:

The applicant believes its proposal will not significantly affect the environment for the following reasons:

The proposal does not meet any of the criteria specified in Section 1.1307 of the FCC Rules. More specifically, the proposed facilities are not known to fall within any of the categories enumerated in Sections 1.1307(a)(1)-(7) and will not involve the use of high-intensity white lights.

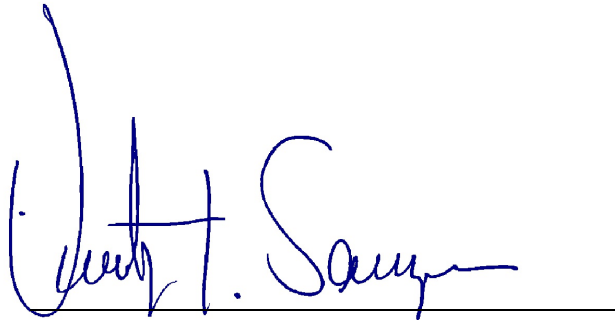
The operation of the facility will not involve the exposure of workers or the general public to levels of radiofrequency electromagnetic fields exceeding guidelines adopted by the Federal Communications Commission. The radiator (whip antenna) is elevated 20 feet, 6.1 meters above ground level at all points of contact. Access is restricted and warning signs are posted at the base of the support pole. FCC OET Bulletin Number 65 compliance distance for non ionizing radiation exposure is less than 0.5 meter. The applicant will reduce power or cease operation as necessary in coordination with any other site users (none at this time) during periods of maintenance or installation of equipment.

ANTI-DRUG ABUSE ACT CERTIFICATION

The Applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to section 5301 of the AntiDrug Abuse Act of 1988, 21 U.S.C. §853a, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, *see* 47 C.F.R. §1.2002(b).

Should there be any questions regarding the technical parameters of this Station STA Request, please contact the office T Z Sawyer Technical Consultants directly at (703) 848-2130 or via email to tzsawyer@tzsawyer.com

Respectfully submitted
October 5, 2023

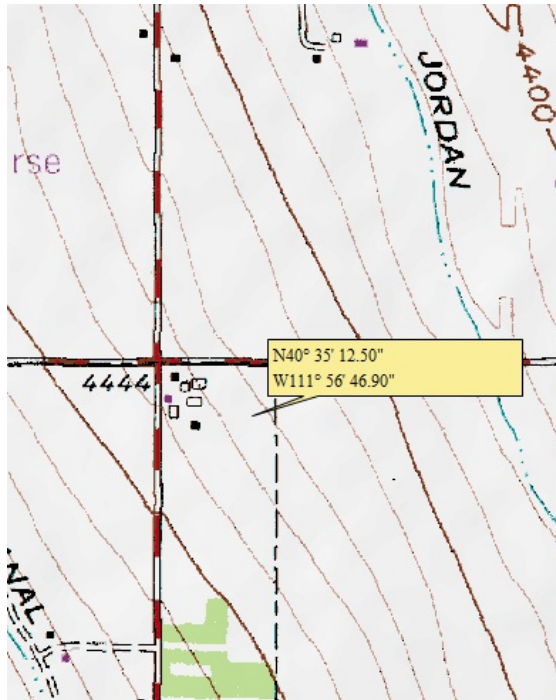
A handwritten signature in blue ink, reading "Timothy Z. Sawyer", is written over a horizontal line.

Timothy Z. Sawyer, Consulting Engineer

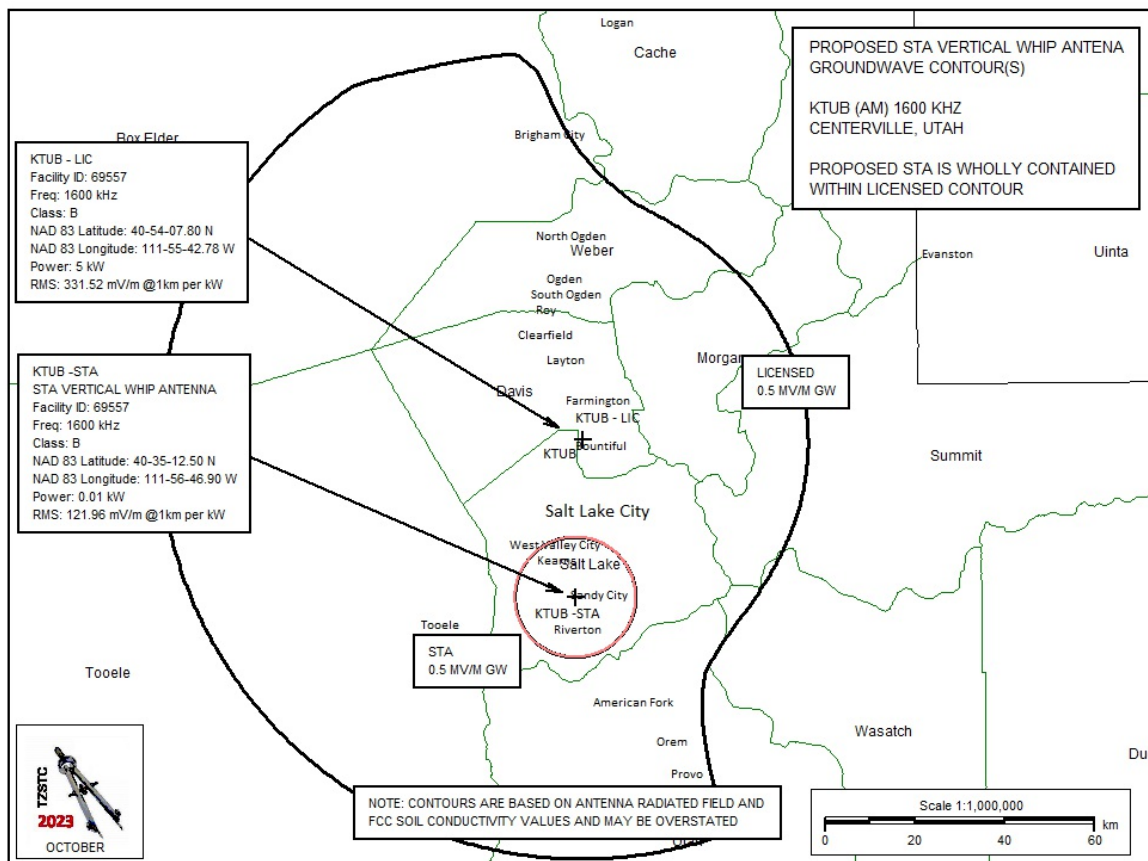
T Z Sawyer Technical Consultants
2130 Hutchison Grove Court, Suite 100
Falls Church, VA 22043
Telephone: (703) 848-2130
e-mail to: tzsawyer@tzsawyer.com

KTUB AM ENGINEERING STA REQUEST - VERTICAL WHIP ANTENNA SYSTEM

TOPOGRAPHIC SITE MAP



SATELLITE IMAGE - GOOGLE EARTH



FCC TowerAIR RESULTS

DETERMINATION Results							
PASS SLOPE(100:1)NO FAA REQ - 4687.0 Meters (15377.1 Feet)away & below slope by 85.0 Meters (278.87 Feet)							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	40-36-41.00N	111-59-29.00W	SOUTH VALLEY RGNL	SALT LAKE SALT LAKE CITY, UT	1402.7	1786.7
Your Specifications							
NAD83 Coordinates							
Latitude						40-35-12.5 north	
Longitude						111-56-46.9 west	
Measurements (Meters)							
Overall Structure Height (AGL)						9.8	
Support Structure Height (AGL)						6.1	
Site Elevation (AMSL)						1354.5	
Structure Type							
POLE - Any type of Pole							

FAA NOTICE TOOL

Part 77 Notice Criteria

* Structure Type:	POLE Pole			
Please select structure type and complete location point information.				
Latitude:	40	Deg	35	M 12.5 S N
Longitude:	111	Deg	56	M 46.90 S W
Horizontal Datum:	NAD83			
Site Elevation (SE):	4444	(nearest foot)		
Structure Height :	32	(nearest foot)		
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes			
<input type="button" value="Submit"/>				

Results

You do not exceed Notice Criteria.

