SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant
Locally Owned Radio, LLC

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

☐ Station License   ☒ Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
				Night	Day
KXQZ (AM)	N/A	1270 kHz	Unlimited	1.0	5.0

2. Station location

State	City or Town
Idaho	Twin Falls

3. Transmitter location

State	County	City or Town	Street address (or other identification)
Idaho	Twin Falls	Twin Falls	21361 US Hwy 30 West

4. Main studio location

State	County	City or Town	Street address (or other identification)
Idaho	Twin Falls	Twin Falls	21361 US Hwy 30 West

5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)
Idaho	Twin Falls	Twin Falls	21361 US Hwy 30 West

6. Has type-approved stereo generating equipment been installed?   ☐ **Yes**   ☒ **No**

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?   ☐ **Yes**   ☐ **No**

☒ Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.
N/A

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system		RF common point or antenna current (in amperes) without modulation for day system	
4.836		10.813	
Measured antenna or common point resistance (in ohms) at operating frequency		**Measured antenna or common point reactance (in ohms) at operating frequency**	
Night	Day	Night	Day
42.767	42.767	-j 2.198	-j 2.198

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
N/A						

Manufacturer and type of antenna monitor: N/A

9. Description of antenna system (If directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
Vertical Self-Supporting Steel Radiator	103.6	102.7	103.6	Exhibit No. N/A

Excitation   ☐ Series   ☒ Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	42 °	33 '	45 "	West Longitude	114 °	32 '	34 "

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

    Exhibit No. #1

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system. 120 equally spaced buried copper radials 137 meters in length plus a 7.3 meter square ground screen at tower base.

    Exhibit No.

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

11. Give reasons for the change in antenna or common point resistance.

The resistance of the antenna changed due to the installation of K236BS (File BMPFT-20140820ACF) and K286CH (File BMPFT-20140801ABN) side-mount FM antennas on the KXQZ antenna structure.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type)	Signature (check appropriate box below)
Daniel G. Ryson	*Daniel Ryson*
Address (include ZIP Code)	**Date**
Cavell, Mertz & Associates, Inc. 7724 Donegan Dr. Manassas, VA 20109-2868	November 13, 2014
	Telephone No. (Include Area Code)
	(703) 392-9090

☐ Technical Director   ☐ Registered Professional Engineer

☐ Chief Operator   ☒ Technical Consultant

☐ Other (specify)

EXHIBIT 1
KXQZ TOWER ELEVATION SKETCH

prepared November 2014 for
Locally Owned Radio, LLC

Cavell, Mertz & Associates, Inc.
Manassas, VA

K286CH

K236BS

Shunt Feed

12 foot STL
WPNG748
946.5

Measurement Point

A

Coax   ATU