

Special Operating Conditions
KEZQ(FM) West Yellowstone
Auxiliary Antenna License Application
October 2023

The construction permit bears a condition related to base impedance measurements on the antenna of AM station KWYS, on which the KEZQ auxiliary antenna is installed.

In 1997, an application for direct measurement of KWYS was filed, which set the impedance at 50 ohms at the input to the ATU. This allows for retuning of the ATU back to 50 ohms (and thereby avoids the need for a 302) whenever any appurtenances are added to the tower. See screen capture from BZ-19970801KA, below.

Installation of the antenna for the KEZQ auxiliary operation (which was in fact accomplished several years ago under an engineering STA) was therefore accommodated by adjustment of the ATU, and a new application for direct measurement of KWYS is not required.

Antenna Summary Data

Non-Directional Antenna Data - Daytime

Section	Question	Response
Parameters	Nominal Power	1.000
	Antenna Input Power	1.000
	RF common point or antenna current without modulation	4.470
	Measured antenna or common point resistance at operating frequency	50
	Latitude	44° 38' 55.7N
	Longitude	111° 5' 52.8W
	Excitation	

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