Approved by OMB (Office of Management and Budget) 3060-0386
July 2002

Federal Communications Commission

(REFERENCE COPY - Not for submission)

LPTV Engineering STA Application

File Number: **0000029074** | Submit Date: **07/28/2017** | Call Sign: **K50FX-D** | Facility ID: **50556** | FRN: **0001549252** | State: **Oregon** | City: **MILTON-FREEWATER**

Service: **LPD** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **08/02/2017** | Expiration Date:

Filing Status: **InActive**

General Information

Section	Question	Response

Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	Yes
	Indicate reason for fee exemption:	Noncommercial Educational Licensee
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
OREGON PUBLIC BROADCASTING **Applicant** Doing Business As: OREGON PUBLIC BROADCASTING	Jon Bial 7140 S.W. MACADAM AVENUE PORTLAND, OR 97219 United States	+1 (503) 244-9900	jbial@opb.org	Other

Authorization Holder Name

☐ Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact Representatives (2)

Contact Name	Address	Phone	Email	Contact Type
LAWRENCE M. M. Garvey Schubert Barer	1000 Potomac Street, N.W. Suite 200 Washington, DC 20007 United States	+1 (202) 298-2534	lmiller@gsblaw.com	Legal Representative
ERIK C. SWANSON C. SWANSON HATFIELD & DAWSON CONSULTING ENGINEERS	9500 GREENWOOD AVE N SEATTLE, WA 98103 United States	+1 (206) 783-9151	ESWANSON@HATDAW.COM	Technical Representative

Channel and Facility Information

Section	Question	Response
Facility ID	50556	
State	Oregon	
City	MILTON-FREEWATER	
LPD Channel	30	

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	45° 49' 53.4" N+
	Longitude	118° 15' 41.8" W-
	Structure Type	POLE-Pole used only to mount an antenna
	Overall Structure Height	9.1 meters
	Support Structure Height	9.1 meters
	Ground Elevation (AMSL)	1028 meters
Antenna Data	Height of Radiation Center Above Ground Level	6 meters
	Height of Radiation Center Above Mean Sea Level	1034 meters
	Effective Radiated Power	1.2 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	20756
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	4X2KBBU
	Rotation	320 degrees
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
Elevation Radiation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	
	Out-of-Channel Emission Mask:	Stringent

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.931	**90**	0.432	**180**	0.069	**270**	0.432
10	0.846	**100**	0.316	**190**	0.043	**280**	0.57
20	0.717	**110**	0.202	**200**	0.051	**290**	0.738
30	0.813	**120**	0.131	**210**	0.116	**300**	0.931
40	0.955	**130**	0.089	**220**	0.065	**310**	1
50	1	**140**	0.065	**230**	0.089	**320**	0.955
60	0.931	**150**	0.116	**240**	0.131	**330**	0.813
70	0.738	**160**	0.051	**250**	0.202	**340**	0.717
80	0.57	**170**	0.043	**260**	0.316	**350**	0.846

Additional Azimuths

Degree	V_A

Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1. 2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	**FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID** Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Steve Bass Bass** *President & CEO* 07/28/2017

Attachments

File Name	Uploaded By	Attachment Type	Description
29074.pdf	Internal	All Purpose	
Milton-Freewater (K50FX-D) Ch30 Engineering Jul 2017.pdf	Applicant	All Purpose	MILTON-FREEWATER CH30 ENGINEERING MATERIAL AND REASON FOR STA REQUEST
Milton-Freewater K50FX T Mobile Letter Jun 2017.pdf	Applicant	General Information	T MOBILE LETTER