




United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

 LUTHERAN CHURCH-MISSOURI SYNOD
 85 FOUNDERS LN
 SAINT LOUIS MO 63105



 Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Grant Date: January 06, 2023

Facility Id: 39258

Call Sign: KFUD

Permit File Number: BP-20220926AAC

This permit expires 3:00 a.m.
 local time, 36 months after the
 grant date specified above.

Change transmitter location.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Hours of Operation: Specified Hours

Average hours of sunrise and sunset:
 Local Standard Time (Non-Advanced)

Jan.	7:15 AM	5:00 PM	Jul.	4:45 AM	7:30 PM
Feb.	7:00 AM	5:45 PM	Aug.	5:15 AM	7:00 PM
Mar.	6:15 AM	6:00 PM	Sep.	5:45 AM	6:15 PM
Apr.	5:30 AM	6:30 PM	Oct.	6:15 AM	5:30 PM
May	4:45 AM	7:00 PM	Nov.	6:45 AM	4:45 PM
Jun.	4:30 AM	7:30 PM	Dec.	7:15 AM	4:45 PM

Callsign: KFUO

Permit No.: BP-20220926AAC

Name of Permittee: LUTHERAN CHURCH-MISSOURI SYNOD

Station Location: CLAYTON, MO

Frequency (kHz): 850

Station Class: D

Antenna Coordinates:

Day

Latitude: N 38 Deg 31 Min 25 Sec

Longitude: W 90 Deg 14 Min 19 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 3.8

Antenna Mode: Day: ND

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1006874	

Non-Directional Antenna: Day

Radiator Height: 119.79 meters; 122.3 deg

Theoretical Efficiency: 326.634 mV/m/kw at 1km

Special operating conditions or restrictions:

- 1 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.

Special operating conditions or restrictions:

- 2 Before program tests are authorized, sufficient data shall be submitted to show that adequate filters, traps and other equipment has been installed and adjusted to prevent interaction, intermodulation and/or generation of spurious radiation products which may be caused by common usage of the same antenna system by Stations KFUE, Fac. ID no. 39258, and KXFN, Fac. ID no. 74579, and there shall be filed with the license application copies of a firm agreement entered into by the stations involved clearly fixing the responsibility of each with regard to the installation and maintenance of such equipment. In addition, field observations shall be made to determine whether spurious emissions exist and any objectionable problems resulting therefrom shall be eliminated. Following construction, and prior to authorization of program test under this grant, Stations KFUE, Fac. ID no. 39258, and KXFN, Fac. ID no. 74579 shall each measure antenna or common point resistance and submit FCC Form 302 as necessary.
- 3 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
- 4 The ground system consists of 120 copper wire radials 86.9 to 91.4 meters long equally spaced around each tower, terminating 3 meters from the site fence boundary, except where limited by the transverse copper straps. A copper wire screen, 14.6 meters square, is installed around each tower base.
- 5 The station is authorized to operate at its daytime power beyond normal local daytime operating hours (specifically, from local sunrise until sunset at Denver, Colorado)
Hours of operation, From Sunrise* to Sunset at Denver, Colorado**
*Average hours of sunrise:
Jan. 7:15am; Feb. 7:00am; Mar. 6:15am; Apr. 5:30am; May 4:45am; June 4:30am; July 4:45am; Aug 5:15am; Sep. 5:45am; Oct. 6:15am; Nov.6:45am; Dec. 7:15am;
Central Standard Time (Non-Advanced).
**Average hours of sunset at Denver, Colorado:
Jan. 6:00pm; Feb. 6:30pm; Mar. 7:00pm; Apr. 7:30pm; May 8:00pm; June 8:30pm; July 8:30pm; Aug. 8:00pm; Sep. 7:15pm; Oct. 6:15pm; Nov.5:45pm; Dec. 5:30pm;
Central Standard Time (Non-Advanced).

*** END OF AUTHORIZATION ***