



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

Authorizing Official:

Official Mailing Address:

CEDAR COVE BROADCASTING, INC.
87 JASPER LAKE ROAD
LOVELAND CO 80537

Son Nguyen
Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Grant Date: **SEP 21 2018**

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

Facility Id: 13790

Call Sign: KPHX

Permit File Number: BP-20180305AAA

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: Unlimited

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

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

Callsign: KPHX

Permit No.: BP-20180305AAA

Name of Permittee: CEDAR COVE BROADCASTING, INC.

Station Location: PHOENIX, AZ

Frequency (kHz): 1480

Station Class: B

Antenna Coordinates:

Day

Latitude: N 33 Deg 23 Min 21 Sec

Longitude: W 111 Deg 59 Min 53 Sec

Night

Latitude: N 33 Deg 23 Min 21 Sec

Longitude: W 111 Deg 59 Min 53 Sec

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

Nominal Power (kW): Day: 0.95 Night: 0.32

Antenna Mode: Day: DA Night: DA

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

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1219664	
2	None	32.7

Night:

Tower No.	ASRN	Overall Height (m)
1	1219664	
2	None	32.7

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 305.86 Night: 182.37

Standard RMS (mV/m/km): Day: 321.4 Night: 191.78

Augmented RMS (mV/m/km):

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	227.5
2	0.6400	-223.600	40.0000	218.000	1	55.1

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	227.5
2	0.6040	-223.600	40.0000	218.000	1	55.1

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Inverse Distance Field Strength:

The inverse distance field strength at a distance of one kilometer from the above antenna in the directions specified shall not exceed the following values:

Day:

Azimuth:	Radiation:
218	144.47 mV/m

Night:

Azimuth:	Radiation:
218	94.46 mV/m

Special operating conditions or restrictions:

- 1 The permittee must submit a proof of performance as set forth in either Section 73.151(a) or 73.151(c) of the rules before program tests are authorized.

A proof of performance based on field strength measurements, per Section 73.151(a), shall include a complete nondirectional proof of performance, in addition to a complete proof on the day directional antenna system. The nondirectional and directional field strength measurements must be made under similar environmental conditions. The proof(s) of performance submitted to the Commission must contain all of the data specified in Section 73.186 of the rules.

Permittees who elect to submit a moment method proof of performance, as set forth in Section 73.151(c), must use series-fed radiators. In addition, the sampling system must be constructed as described in Section 73.151(c) (2) (i).

- 2 Permittee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data prescribed in Section 73.1660(b) should non-type accepted transmitter be proposed.
- 3 A license application (FCC Form 302) to cover this construction permit must be filed with the Commission pursuant to Section 73.3536 of the Rules before the permit expires.
- 4 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.
- 5 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 KPHX(AM), Phoenix, Arizona, facility ID 13790 and KSUN(AM), Phoenix, Arizona, facility ID 21430, and there shall be filed with the license application copies of a firm agreement entered into by the two (2) 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 KPHX(AM), Phoenix, Arizona, facility ID 13790 and KSUN(AM), Phoenix, Arizona, facility ID 21430 shall each measure antenna or common point resistance and submit FCC Form 302 as application notifying the return to direct measurement of power.
- 6 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:

- 7 The proposed tower (#1) is an existing 129.5 meter (425 feet) overall cross sectioned, guyed tower, insulated above ground. The electrical height of the tower will be 227.5 degrees, or 128 meters (420 feet) at 1480 KHz. A new "drop wire" antenna will be installed from the larger tower and be utilized as "Tower #2". The wire will be supported from a new insulated guy wire to be strung from about 30 meters level above ground from the taller existing tower #1, down to a guy point on the ground at an azimuth of 218 degrees from Tower #1. The new drop wire will be 40 degrees electrically and 22.5 meters (73.8 feet) from the base of Tower #1. The new drop wire will be strung from this new guy wire vertically and will be 55.1 degrees in electrical length at the operating frequency of 1480 KHz. It will be 31 meters in electrical length and base of the wire will be elevated 1.7 meters above the ground. This new drop wire will serve as Tower #2 of the proposed directional antenna system being proposed for KPHX(AM). The same directional pattern will be used for both the daytime and night proposed operation of KPHX(AM).
- 8 Ground system consists of 120 equally spaced, buried, copper radials, 128 meters long about the base of the existin tower (#1). There is also a 15 meter round ground screening around the current base of the tower #1. An additional 24 meter round ground screen with be installed around the base of the proposed tower #2 (drop wire) with a tuning network for additional grounding.

*** END OF AUTHORIZATION ***