



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

Authorizing Official:

Official Mailing Address:

FAMILY STATIONS, INC.
112 NORTH ELM STREET
SHENANDOAH IA 51601

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Grant Date: December 14, 1999

Facility Id: 25095

Call Sign: WKDN

This permit expires 3:00 a.m.
local time, December 02, 2006.

Permit File Number: BP-19990521AC

This authorization re-issued to remove the ITU condition and to change the expiration date. 12/10/03

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

Callsign: WKDN

Permit No.: BP-19990521AC

Name of Permittee: FAMILY STATIONS, INC.

Station Location: PHILADELPHIA, PA

Frequency (kHz): 950

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 09 Min 11 Sec
Longitude: W 75 Deg 25 Min 53 Sec

Night

Latitude: N 40 Deg 09 Min 11 Sec
Longitude: W 75 Deg 25 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: 50.0 Night: 50.0

Antenna Mode: Day: DA Night: DA

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

Antenna Registration Number(s):

Day:

| Tower No. | ASRN | |
|-----------|------|-----|
| 1 | None | 186 |
| 2 | None | 186 |
| 3 | None | 186 |
| 4 | None | 186 |
| 5 | None | 186 |
| 6 | None | 186 |

Night:

| Tower No. | ASRN | |
|-----------|------|-----|
| 1 | None | 186 |
| 2 | None | 186 |
| 3 | None | 186 |
| 4 | None | 186 |
| 5 | None | 186 |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2911.63 Night: 3109.2

Standard RMS (mV/m/km): Day: 3058.3 Night: 3265.9

Augmented RMS (mV/m/km):

Q Factor: Day: 77.83 Night: 85.9

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 | 210.0 |
| 2 | 1.1770 | 87.200 | 110.0000 | 308.000 | 0 | 210.0 |
| 3 | 0.3740 | 176.000 | 220.0000 | 308.000 | 0 | 210.0 |
| 4 | 1.3260 | 358.000 | 180.0000 | 210.000 | 0 | 210.0 |
| 5 | 1.5600 | 85.200 | 197.5000 | 243.500 | 0 | 210.0 |
| 6 | 0.4950 | 174.000 | 264.2000 | 265.600 | 0 | 210.0 |

* 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 | 210.0 |
| 2 | 2.9870 | 122.200 | 110.0000 | 308.000 | 0 | 210.0 |
| 3 | 3.9270 | 249.500 | 220.0000 | 308.000 | 0 | 210.0 |
| 4 | 2.8470 | 20.500 | 330.0000 | 308.000 | 0 | 210.0 |
| 5 | 1.0630 | 150.500 | 440.0000 | 308.000 | 0 | 210.0 |

* 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: | |
|----------|------------|------|
| 3.5 | 207.5 | mV/m |
| 259 | 381 | mV/m |

Night:

| Azimuth: | Radiation: | |
|----------|------------|------|
| 18 | 102.2 | mV/m |
| 44 | 254.8 | mV/m |
| 212 | 254.8 | mV/m |
| 238 | 102.2 | mV/m |
| 265 | 100.7 | mV/m |
| 295.5 | 90.2 | mV/m |
| 320.5 | 90.2 | mV/m |
| 351 | 100.7 | mV/m |

Special operating conditions or restrictions:

- 1 A complete nondirectional proof of performance, in addition to a complete proof on the day and night directional antenna system, shall be submitted before program tests are authorized. The nondirectional and directional field strength measurements must be made under similar environmental conditions.
- 2 The facility described herein will not be licensed absent the issuance of an Antenna Structure Registration authorization. The permittee must include an Antenna Structure Registration Authorization along with the filing of FCC Form 302-AM, Application for License.
- 3 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.
- 4 Permittee/Licensee shall satisfy all reasonable complaints of blanketing interference within the 1V/m contour.

Special operating conditions or restrictions:

- 5 Painting and lighting of the proposed antenna tower(s) in accordance with paragraphs 4, 9, &13 of FCC Form 715.

*** END OF AUTHORIZATION ***