



FAC - # 71325

United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official

Official Mailing Address:

[Signature]

CHANCELLOR MEDIA PENNSYLVANIA LICENS
24 BELMONT AVENUE AND
EDGELY DRIVE
PHILADELPHIA, PA 19131

Son Nguyen
Supervisory Engineer
Audio Services Division
Mass Media Bureau

Call Sign: WDAS

Grant Date: FEB 24 1999

License File No.: BZ-981116AF

This license expires 3:00 a.m.
Local time, August 1, 2006

Direct Measurement of Power

Subject to the provisions of the Communications Act of 1934,
subsequent acts and treaties, and all regulations heretofore or
hereafter made by this Commission, and further subject to the
conditions set forth in this license, the licensee is hereby
authorized to use and operate the radio transmitting apparatus herein
described.

This license is issued on the licensee's representation that the
statements contained in licensee's application are true and that the
undertakings therein contained so far as they are consistent herewith,
will be carried out in good faith. The licensee shall, during the term
of this license, render such broadcasting service as will serve the
public interest, convenience, or necessity to the full extent of the
privileges herein conferred.

This license shall not vest in the licensee any right to operate the
station nor any right in the use of the frequency designated in the
license beyond the term hereof, nor in any other manner than
authorized herein. Neither the license nor the right granted hereunder
shall be assigned or otherwise transferred in violation of the
Communications Act of 1934. This license is subject to the right of
use or control by the Government of the United States conferred by
Section 606 of the Communications Act of 1934.

Hours of Operation: Unlimited

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

Table with 6 columns: Month, Sunrise (a.m.), Sunset (p.m.), Month, Sunrise (a.m.), Sunset (p.m.)

Licensee: CHANCELLOR MEDIA PENNSYLVANIA LICENS

Station Location: PHILADELPHIA, PA

Frequency (kHz): 1480

Station Class: B

Transmitter Location:

PA - 4000 Edgely Drive, Philadelphia.

Latitude: N 39° 59' 53"

Longitude: W 75° 12' 43"

Main Studio Location: (See Section 73.1125)

PA - 23 West City Avenue, Bala Cynwyd.

Nominal Power (kW): Day: 5.0 Night: 1.0

Antenna Input Power (kW): Day: 5.400 Night: 1.080

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 10.39 Night: 4.65

Resistance (ohms): Day: 50.00 Night: 50.00

Antenna Description:

Six(6), vertical, guyed, series-excited steel radiators of uniform cross section. FM broadcast antenna side-mounted near the top of daytime SW tower #1.

Ground System Description:

120 equally spaced, buried, copper radials about the base of each tower, each 50.61 meters in length except where intersecting radials are shortened and bonded to a transvers copper strap midway between adjacent towers, plus a 12.2 by 12.2 meter ground screen at the base of each tower.

Painting and Lighting Specifications:

Daytime:

| Twr No. | Overall Height (m) | Marking and Lighting Specifications       |
|---------|--------------------|---|
| 1       | 45.1               | FCC Form 715, Paragraphs<br>None Required |
| 2       | 45.1               | None Required                             |
| 3       | 45.1               | None Required                             |

Nighttime:

| Twr No. | Overall Height<br>(m) | Marking and Lighting Specifications<br>FCC Form 715, Paragraphs |
|---------|-----------------------|---|
| 1       | 45.1                  | None Required   |
| 2       | 45.1                  | None Required   |
| 3       | 45.1                  | None Required   |
| 4       | 45.1                  | None Required   |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m @ 1km): Day: 687.19 Night: 286.46

Augmented RMS (mV/m @ 1km): Day: 722.38 Night: 301.79

Q Factor: Day: 23.96 Night: 17.79

Theoretical Parameters:

Daytime Directional Antenna:

| Tower No. | Field Ratio | Phasing<br>(Deg.) | Spacing<br>(Deg.) | Orientation<br>(Deg.) | Tower Ref.<br>Switch * | Height<br>(Deg.) |
|-----------|-------------|-------------------|-------------------|-----------------------|------------------------|------------------|
| 1         | 1.0000      | 0.000             | 0.000             | 0.000                 | 0                      | 78.5             |
| 2         | 2.5000      | 143.000           | 70.000            | 27.500                | 0                      | 78.5             |
| 3         | 0.9000      | 270.000           | 90.000            | 27.500                | 1                      | 78.5             |

Augmentation Parameters

| Aug No. | Central<br>Azimuth<br>(Deg. T) | Span<br>(Deg.) | Radiation<br>at Central Azimuth<br>(mV/m @ 1 km) |
|---------|--------------------------------|----------------|--|
| 1.      | 100.0                          | 40.0           | 281.64   |

Nighttime Directional Antenna:

| Tower No. | Field Ratio | Phasing<br>(Deg.) | Spacing<br>(Deg.) | Orientation<br>(Deg.) | Tower Ref.<br>Switch * | Height<br>(Deg.) |
|-----------|-------------|-------------------|-------------------|-----------------------|------------------------|------------------|
| 1         | 1.0000      | -59.000           | 0.000             | 0.000                 | 0                      | 78.5             |
| 2         | 2.3000      | 101.000           | 90.000            | 315.000               | 0                      | 78.5             |
| 3         | 2.3000      | -101.000          | 180.000           | 315.000               | 0                      | 78.5             |
| 4         | 1.0000      | 59.000            | 270.000           | 315.000               | 0                      | 78.5             |

\* Tower Reference Switch:  
 0 = Spacing and orientation from reference tower  
 1 = Spacing and orientation from previous tower

Augmentation Parameters

| Aug No. | Central Azimuth (Deg. T) | Span (Deg.) | Radiation at Central Azimuth (mV/m @ 1 km) |
|---------|--------------------------|-------------|--|
| 1.      | 27.5                     | 10.0        | 41.84                                      |
| 2.      | 36.0                     | 11.0        | 29.77                                      |
| 3.      | 41.5                     | 11.0        | 38.62                                      |
| 4.      | 51.0                     | 18.0        | 43.45                                      |
| 5.      | 207.5                    | 10.0        | 35.41                                      |
| 6.      | 222.0                    | 24.0        | 45.06                                      |
| 7.      | 234.0                    | 22.0        | 28.97                                      |
| 8.      | 245.0                    | 22.0        | 51.50                                      |
| 9.      | 267.5                    | 23.0        | 53.11                                      |
| 10.     | 294.0                    | 30.0        | 90.12                                      |
| 11.     | 309.0                    | 18.0        | 141.62                                     |

Operating Parameters:

Daytime Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio | Antenna Base Current Ratio |
|----------|--------------|--------------------------------------|----------------------------|
| 1        | -150.20      | 0.354                                | 0.351                      |
| 2        | 0.00         | 1.000                                | 1.000                      |
| 3        | 124.20       | 0.362                                | 0.386                      |

Nighttime Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio | Antenna Base Current Ratio |
|----------|--------------|--------------------------------------|----------------------------|
| 1        | -38.10       | 0.425                                | 0.445                      |
| 2        | -159.20      | 0.972                                | 0.921                      |
| 3        | 0.00         | 1.000                                | 1.000                      |
| 4        | 159.90       | 0.475                                | 0.493                      |

Antenna Monitor: Potomac Instruments AM-19(204)

Sampling System Approved Under Section 73.68(b) of the Rules.

Monitoring Points:

Daytime Operation:

| Radial<br>(Deg. T) | Distance From Transmitter<br>(kM) | Maximum Field Strength<br>(mV/m) |
|--------------------|-----------------------------------|----------------------------------|
| 27.0               | 1.82                              | 108.00                           |
| 80.0               | 1.69                              | 39.90                            |
| 330.0              | 2.62                              | 32.50                            |

Nighttime Operation:

| Radial<br>(Deg. T) | Distance From Transmitter<br>(kM) | Maximum Field Strength<br>(mV/m) |
|--------------------|-----------------------------------|----------------------------------|
| 41.5               | 3.06                              | 7.80                             |
| 60.0               | 2.90                              | 3.70                             |
| 234.0              | 3.06                              | 3.50                             |
| 279.0              | 3.06                              | 3.03                             |

Special Operating Conditions or Restrictions:

None Required

Obstruction marking and lighting specifications for antenna structure(s):

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

\*\*\* END OF AUTHORIZATION \*\*\*