



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

GRAND VALLEY STATE UNIVERSITY
 WGVU
 301 FULTON ST. WEST, ROOM 820
 GRAND RAPIDS MI 49504

Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 33695

Call Sign: WGVU

License File Number: BL-19860604AD

Grant Date:

This license expires 3:00 a.m.
 local time, October 01, 2004.

20021004ADA: License is re-issued to replace antenna monitor

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)

Jan.	8:15 AM	5:30 PM	Jul.	5:15 AM	8:30 PM
Feb.	7:45 AM	6:15 PM	Aug.	5:45 AM	7:45 PM
Mar.	7:00 AM	6:45 PM	Sep.	6:30 AM	7:00 PM
Apr.	6:00 AM	7:30 PM	Oct.	7:00 AM	6:00 PM
May	5:15 AM	8:00 PM	Nov.	7:30 AM	5:15 PM
Jun.	5:00 AM	8:30 PM	Dec.	8:15 AM	5:15 PM

Callsign: WGVS

License No.: BL-19860604AD

Name of Licensee: GRAND VALLEY STATE UNIVERSITY

Station Location: MUSKEGON, MI

Frequency (kHz): 850

Station Class: B

Antenna Coordinates:

Unlimited

Latitude: N 43 Deg 08 Min 05 Sec

Longitude: W 86 Deg 15 Min 41 Sec

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

Nominal Power (kW): Unlimited: 1.0

Antenna Input Power (kW): Unlimited:

Antenna Mode: Unlimited: DA

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

Current (amperes): Unlimited:

Resistance (ohms): Unlimited:

Antenna Registration Number(s):

Unlimited:

Tower No.	ASRN
1	None
2	None
3	None
4	None

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Unlimited: 275.84

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Unlimited:

Q Factor: Unlimited:

Theoretical Parameters:

Unlimited 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	78.0
2	1.0000	-96.000	90.0000	60.000	0	78.0
3	1.0000	-92.000	190.0000	105.000	1	78.0
4	1.0000	4.000	190.0000	105.000	0	79.0

* 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	16.5	73.0	747.70
2	53.0	50.0	382.54
3	78.0	10.0	51.50
4	83.0	10.0	38.62
5	88.0	10.0	38.62
6	105.0	30.0	96.56
7	121.0	10.0	47.48
8	126.0	10.0	38.62
9	131.0	10.0	49.89
10	145.0	26.0	147.09
11	160.0	30.0	241.40
12	175.0	30.0	250.41
13	220.0	20.0	28.97
14	230.0	20.0	22.53
15	240.0	20.0	19.31
16	250.0	20.0	17.70
17	260.0	20.0	17.70
18	272.5	25.0	17.70
19	285.0	20.0	19.31
20	295.0	20.0	22.53
21	305.0	20.0	32.19

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
22	335.0	30.0	333.13
23	355.0	40.0	603.50

Special operating conditions or restrictions:

- 1 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.

- 2 DESCRIPTION OF MONITORING POINTS:

Direction of 83 True North.

*** END OF AUTHORIZATION ***