

AMENDMENT

"PLEASE STAMP"
AND RETURN
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FLETCHER, HEALD & HILDRETH

Please amend the application of Caroline K. Powley for a construction permit for a new television station to operate in Des Moines, Iowa, File No. BPCT-19960117KE, to add the attached amended engineering.

RECEIVED

Respectfully submitted,

JUL 30 2003

Caroline K. Powley

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Caroline K. Powley

Signed this 25 day
of July, 2003.

SECTION III-D DTV Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel Number: DTV 56+ Analog TV, if any _____
2. Zone: ☐ I ☒ II ☐ III
3. Antenna Location Coordinates: (NAD 27)
- 41 ° 49 ' 47 " ☒ N ☐ S Latitude
93 ° 36 ' 56 " ☐ E ☒ W Longitude
4. Antenna Structure Registration Number: 1061304
- ☐ Not applicable ☐ FAA Notification Filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level: 304 meters
6. Overall Tower Height Above Ground Level: 578 meters
7. Height of Radiation Center Above Ground Level: 882 meters
8. Height of Radiation Center Above Average Terrain: 592 meters
9. Maximum Effective Radiated Power (average power): 1000 kW
10. Antenna Specifications:
- a.

Manufacturer <u>Andrew</u>	Model <u>ATW26H3-HSC1-22S</u>
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- b. Electrical Beam Tilt: _____ degrees ☒ Not Applicable
- c. Mechanical Beam _____ degrees toward azimuth _____ degrees True ☒ Not Applicable
- Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).

Exhibit No.

- d. Polarization: ☐ Horizontal ☒ Circular ☐ Elliptical

TECH BOX

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)Rotation: 270° ☐ No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1.000	60	0.989	120	0.695	180	0.195	240	0.691	300	0.996
10	0.987	70	0.994	130	0.604	190	0.193	250	0.803	310	0.972
20	0.966	80	0.987	140	0.504	200	0.228	260	0.917	320	0.941
30	0.938	90	0.974	150	0.363	210	0.348	270	0.979	330	0.937
40	0.935	100	0.921	160	0.235	220	0.495	280	0.993	340	0.963
50	0.963	110	0.811	170	0.190	230	0.602	290	0.999	350	0.985
Additional Azimuths											

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.
1

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") ☒ Yes ☐ No

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

Exhibit No.
N/A

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.
N/A

13. **Environmental Protection Act.** Submit in an Exhibit the following:

Exhibit No.
2

- a. If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

PREPARER'S CERTIFICATION IN SECTION III MUST BE COMPLETED AND SIGNED.

Exhibit: 1

**ANDREW**

Type: ATW-C1

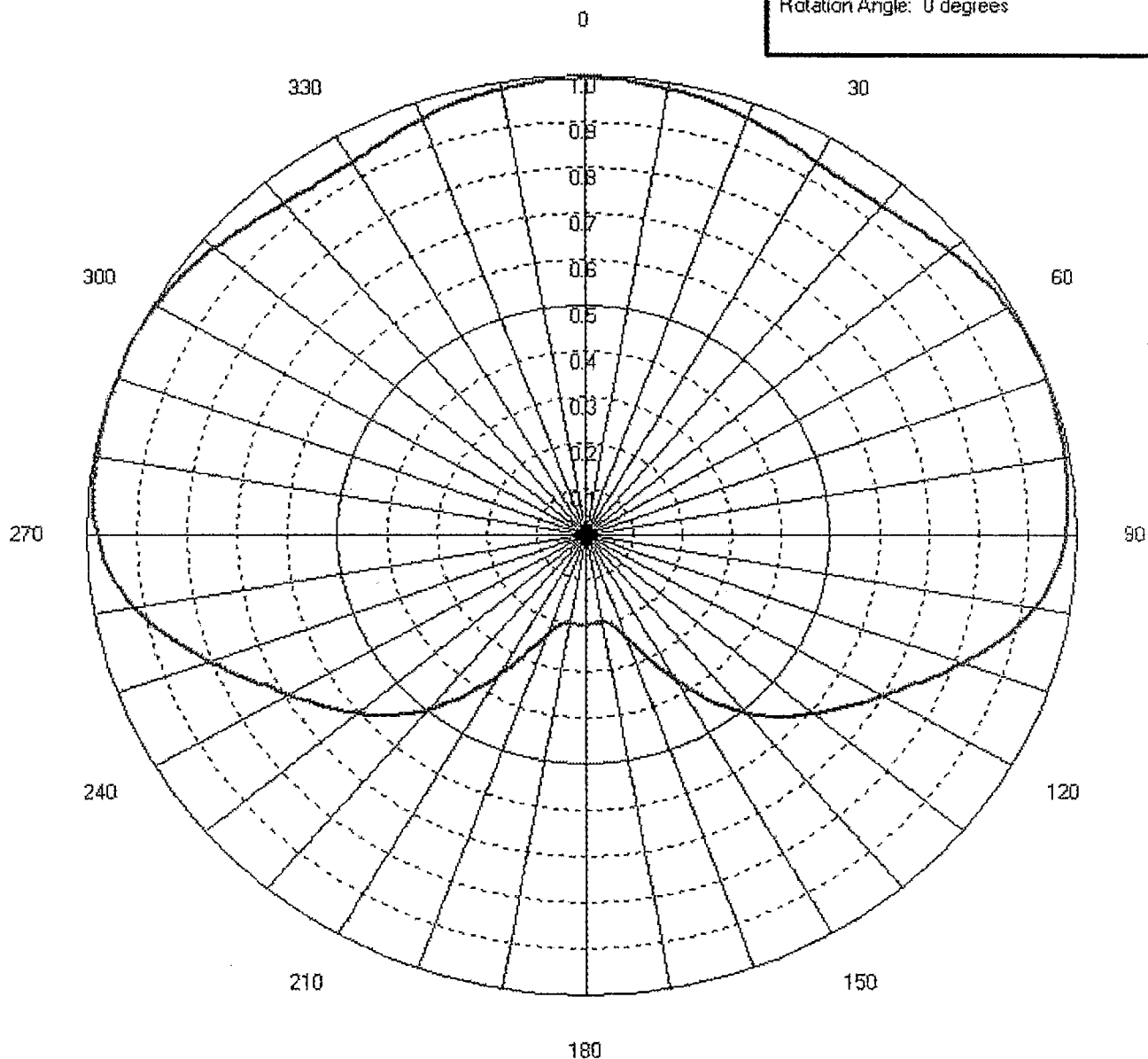
Gain: 1.52 (1.82 dB)

Polarization: Horizontal

Channel: 22

Plot Type: Relative Field

Rotation Angle: 0 degrees



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company:
Site:
Proposal Number:

Date: 7/29/2003
Author:

Caroline K. Powley
Des Moines, IA

Exhibit 2

ENVIRONMENTAL IMPACT STATEMENT

The proposed construction will have no significant environmental impact and any FCC action with regard to this application would be categorically exempt from environmental processing under 47 CFR Section 1.1306 of the rules. The proposed application amendment does not fall into any of the categories specified in 47 CFR Section 1.1307A of the rules and will be located on a pre-existing tower which will not require any lighting changes.

Calculations performed using the procedures found in OST Bulletin #65 ANSI guidelines show that the theoretical radio frequency radiation produced by the operation would not exceed the limits of radio frequency protection guidelines contained in the ANSI C95.1-1982 standard. Utilizing the procedures found in OST Bulletin #65, the level at 2 meters above the ground at the base of the tower would be 0.00225 mW/cm^2 which is below the ANSI maximum allowable radiation limit of 2.42 mW/cm^2 .

With respect to the general public, the level of 0.00225 mW/cm^2 is so low that even if the general public had access to the site, which it will not, the radiation found there is nothing close to the allowable for the general public.

The level at which the maximum exposure of 2.42 mW/cm^2 will be found below the antenna will be 18.40 meters. Thus, whenever a tower climber comes to this level or approximately 559.6 meters above the ground, power to the antenna will be terminated.

The site will be conspicuously marked with signs and access to the tower will be prevented by a fence to prevent unauthorized entry to the tower area.