

ENGINEERING EXHIBIT

Application for
Digital Television Station License
prepared for
WSET Incorporated
WSET-DT Lynchburg, Virginia
Facility ID 73988
Ch. 34 200 kW 568 m

Table of Contents

FCC Form 302-DTV, Section III

Exhibit 8

Statement A	Nature of the Proposal / Special Operating Conditions
Attachment 1	Notification to Health Care Facilities

This material supplies a "hard copy" of the engineering portions of this application as entered August 22, 2005 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.

Section III - 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: 34												
2. Operating Constants												
<table border="1"> <tr> <td>Transmitter power output (average power at input to transmission line, after any filter attached to the transmitter, if used)</td> <td>Transmission line power loss</td> </tr> <tr> <td>10.0 dBk 10 kW</td> <td>1.1 dB</td> </tr> <tr> <td>Antenna Input power</td> <td>Maximum antenna power gain</td> </tr> <tr> <td>8.9 dBk</td> <td>14.1 dB</td> </tr> <tr> <td></td> <td>Maximum effective radiated power</td> </tr> <tr> <td></td> <td>23.0 dBk 200 kW</td> </tr> </table>	Transmitter power output (average power at input to transmission line, after any filter attached to the transmitter, if used)	Transmission line power loss	10.0 dBk 10 kW	1.1 dB	Antenna Input power	Maximum antenna power gain	8.9 dBk	14.1 dB		Maximum effective radiated power		23.0 dBk 200 kW
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8.9 dBk	14.1 dB											
	Maximum effective radiated power											
	23.0 dBk 200 kW											
3. Antenna Data												
<table border="1"> <tr> <td>Manufacturer</td> <td>Model</td> </tr> <tr> <td>DIE</td> <td>TFU-30DSC-R-O4</td> </tr> </table>	Manufacturer	Model	DIE	TFU-30DSC-R-O4								
Manufacturer	Model											
DIE	TFU-30DSC-R-O4											

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

4. Main Studio Location. The main studio location complies with 47 C.F.R. Section 73.1125.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 6]
5. Constructed Facility The facility was constructed as authorized in the underlying construction permit or complies with 47 C.F.R. Section 73.1690.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 7]
6. Special Operating Conditions. The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. An exhibit may be required. Review the underlying construction permit	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 8]
7. Transmitter. The transmitter complies with 47 C.F.R. Section 73.1660.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 9]

APPLICATION FILED PURSUANT TO 47 C.F.R. SECTIONS 73.1675(c) OR 73.1690(c).

Only applicants filing this application pursuant to 47 C.F.R. Sections 73.1675(c) or 73.1690(c) must complete the following section.

8. Changing transmitter power output. Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1600(c)(1) and (c)(10).	<input type="radio"/> Yes <input type="radio"/> No
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SECTIONS 73.1690(c)(1) and (c)(10).	
9. Replacing a directional antenna. Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna? If "Yes" to the above, the applicant certifies the following:	<input type="radio"/> Yes <input type="radio"/> No
a. Pattern of Directional Antenna. The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3). Exhibit is required.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 10]
10 Use a formerly licensed main facility as an auxiliary facility. Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility? If "Yes" to the above, the applicant certifies the following:	<input type="radio"/> Yes <input type="radio"/> No
a. Auxiliary antenna service area. The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a). Exhibit is required.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 11]
b. Environmental Protection Act. The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1 306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). By checking "Yes" above, 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.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 12]
11. Change the license status. Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(9) to change the license status from commercial to noncommercial or from noncommercial to commercial? If "Yes" to above, submit an exhibit providing full particulars. For applications changing license status from commercial to noncommercial, include Section II of FCC Form 340 as an exhibit to this application.	<input type="radio"/> Yes <input type="radio"/> No [Exhibit 13]

PREPARER'S CERTIFICATION ON PAGE 6 MUST BE COMPLETED AND SIGNED

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JONATHAN A. SCHULTZ	Relationship to Applicant (e.g., Consulting Engineer) CONSULTANT
Signature	Date 8/22/2005
Mailing Address	

CAVELL, MERTZ & DAVIS, INC.
7839 ASHTON AVENUE

City MANASSAS	State or Country (if foreign address) VA	Zip Code 20109 -
Telephone Number (include area code) 7033929090	E-Mail Address (if available) JONATHAN.SCHULTZ@CMDCONSULTING.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Exhibits

Exhibit 8

Description: EXHIBIT 8 - NATURE OF THE PROPOSAL - SPECIAL OPERATING CONDITIONS

EXHIBIT 8 - NATURE OF THE PROPOSAL - SPECIAL OPERATING CONDITIONS - ATTACHED AS A PDF DOCUMENT

Attachment 8

Description

<u>EXHIBIT 8</u>

Exhibit 8 - Statement A
NATURE OF THE PROPOSAL
SPECIAL OPERATING CONDITIONS
prepared for
WSET Incorporated
WSET-DT Lynchburg, Virginia
Facility ID 73988
Ch. 34 200 kW 568 m

WSET Incorporated, (“*WSET*”) is the permittee of digital television (“DTV”) station WSET-DT, Channel 34, Lynchburg, Virginia (FCC File Number BMPCDT-20050630AEQ). The paired NTSC facility is WSET-TV, NTSC Channel 13. The facility authorized in the WSET-DT Construction Permit (“CP”) has been constructed, and is already operating pursuant to Special Temporary Authority (“STA,” BMDSTA-20050308ACJ).¹ The instant application requests a license to cover the CP.

The WSET-DT CP contains a special operating condition stating that *WSET* is required to “make a good faith effort to identify and notify health care facilities... within [the WSET-DT] service area potentially affected by [the WSET-DT] operations.” Such notifications were sent to 165 medical locations in and around the Roanoke-Lynchburg, VA market on August 8, 2003, in conjunction with previous authorizations for WSET-DT (CP, BMPCDT-20021001AAJ; STA, BDSTA-20030801DDX). A copy of the notification letter is attached as **Exhibit 8 - Attachment 1**. As shown in the letter, medical facilities were notified that WSET-DT would operate with 716 kilowatts effective radiated power (“ERP”), as indicated in the previous CP. Since the present and proposed operation specifies a lower ERP (200 kilowatts) than that specified in the letter, it is believed that no further notification is necessary. Therefore, it is believed that the instant application complies with the aforementioned special operating condition.

¹The facilities authorized in the CP are identical to the facilities authorized in the STA, i.e., the CP facility has been constructed and is operating.

Exhibit 8 - Attachment 1
NOTIFICATION TO HEALTH CARE FACILITIES

prepared for

WSET Incorporated
WSET-DT Lynchburg, Virginia
Facility ID 73988
Ch. 34 200 kW 568 m

To: Administrator or Biomedical Engineer
From: WSET-TV Roanoke-Lynchburg, VA Area Television Station
Date: August 8, 2003

NOTICE OF COMMENCEMENT OF DIGITAL TELEVISION (DTV) OPERATION

THIS LETTER CONCERNS TELEMETRY OPERATION. PLEASE ASSURE THAT THOSE WHO SUPERVISE OR MAINTAIN CLINICAL OR BIOMEDICAL ENGINEERING AT YOUR FACILITY RECEIVE IT.

The station listed above have retained Curley & Company, Inc., broadcast consultants, to inform you of its intention to begin digital television (DTV) operations in your area.

All full power television stations are required by law to begin providing DTV services, and have been given second television channels for that purpose. We are notifying you of our intention to begin DTV operations because patients within your facility may use biomedical telemetry devices that operate in the television broadcast band, and may be affected when we begin our DTV service.

The rules of the Federal Communications Commission (codified at 47 CFR 15.242) have allowed certain biomedical telemetry devices to use unoccupied DTV channels in their area *on a secondary basis*. This means that the medical facility or operator of the device is responsible for resolving any interference problems that may arise with the digital television-broadcast service or, alternatively, must cease its operations on that channel.

The purpose of this notice is to provide you information and a reasonable opportunity to resolve problems. However, you will want to discuss this with your technology supplier especially if you believe that biomedical devices used in your facility are likely to malfunction when we begin our DTV operations. *If you plan to replace your biomedical equipment, we urge that you purchase equipment designed to operate in the frequencies set aside for medical use.*

The commencement date, DTV channel and frequency band for each station are listed on the attached pages (or reverse) along with contact information for the broadcast executive in charge of DTV for the station. If you wish more information or you want to report anticipated or actual interference problems please contact the individual listed on the attached page who is associated with the specific channel.

Respectfully,

J. C. Curley & Company

1262 Lake Willisara Circle, Orlando, Florida 32860
(407) 425-4947 Fax (407) 425-8378 email jccurley1@earthlink.net

Exhibit 8 - Attachment 1
NOTIFICATION TO HEALTH CARE FACILITIES
(Page 2 of 2)

Page 2 The relevant technical details of our proposed DTV operation are as follows;

WSET-TV Channel 13 Network ABC

WSET-DT

DTV Channel: 34

Frequency Band: 590-596 MHz

Scheduled On-air Date: On or after August 15, 2003

Effective Radiated Power: 716 kW Authorized by the FCC. *Station intends to initially operate at a lower power (17.9 kW) under a special temporary authorization (STA) from the FCC than that fully authorized allocation.*

Antenna Location: 37-18-54 North Latitude; 79-38-06 West Longitude
Approximately 2 miles from US 460 and 689 at Thaxton,
VA. on Fire Road 4024

Antenna Height: 568.4 meters Height Above Average Terrain
900.4 meters Radiation Center Above Mean Sea Level
315 meters Radiation Center Above Ground Level

Contact: Doug Daniel, Chief Engineer

Telephone: Station 434-528-1313

Fax: 434-847-0458

Email: ddaniel@wset.com

--END--
