

ENGINEERING STATEMENT
RE RF FIELD ANALYSIS
WFXV-DT, UTICA, NEW YORK
CHANNEL 27 688 KW 433 METERS HAAT

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This engineering statement has been prepared on behalf of Quorum of Utica License LLC, licensee of Station WFXV-TV, Utica, New York, and provides an RF field level assessment of its proposed digital operation to ensure the public and workers are not exposed to RF fields above the Commission's guidelines.

Environmental Statement

Since the proposed DTV antenna will be installed on a replacement tower to the existing WFXV-TV tower, it is believed the environmental concerns listed in Section 1.1307(a) of the Commission's Rules are not pertinent; therefore, those issues have not been addressed.

An evaluation has been made to determine compliance with the Commission's specified standards for human exposure to RF fields as set forth in the OET Bulletin No. 65 dated August 1997. For a maximum effective radiated power of 688 kW and a radiation center of 296 meters above ground level, the proposed DTV operation would have a maximum of 16.6 microwatts per square centimeter (FW/cm²) RF field at 2 meters above the base of tower, based on an antenna field factor of 0.25 in the downward direction. The Commission's guidelines for Channel 27 DTV operation are 1,836.67 FW/cm² for the occupational/controlled and 367.33 FW/cm² for the general population/uncontrolled environment.

However, since the existing analog TV is operating from the existing tower and other broadcast facilities are operating from an adjacent tower, a combined RF field level at the DTV site has been also determined.

The following table lists the RF field contribution made by each operation which indicates the combined value would be less than the Commission's MPE guidelines.

<u>Station</u>	<u>Ch/Freq</u> MHz	<u>ERP</u> kW	<u>WFXV Antenna</u>		<u>RF Field</u> FW/cm ²	<u>MPE³</u> FW/cm ²	<u>MPE</u>
			<u>C/R AG¹</u> meters	<u>RF²</u>			
WFXV-DT App.	27 (548-555)	688	294	0.25	16.6	367.33	4.5%
WFXV-TV CP	33 (584-590)	851 V 85.1 A	45	0.15	158.0	391.33	40.4%
WSKS(FM) Lic.	250 (97.9)	1.5 H&V	56	0.25	2.0	200	1.0%
WRBY(FM) Lic.	273 (102.5)	27 H&V	51	0.25	43.3	200	21.7%
WFXV-TV Lic.	33 (584-590)	42.7 V 4.3 A	51	0.15	6.2	391.33	1.6%
						Combined	67.6% ⁴

¹ Radiation Center - 2 meters above ground.

² Assumed value.

³ The Commission's specified MPE for general public/uncontrolled environment.

⁴ 28.8% of MPE with the current WFXV-TV licensed facilities.

Therefore, members of the public and personnel working around the proposed WFXV-DT, Channel 27 DTV facility would not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, station WFXV-TV has established a procedure to ensure that workers are not exposed to RF fields above the Commission's guidelines, by reducing or turning off the power, as appropriate.

For the reasons stated above, it is believed this proposal complies with Section 1.1307(a) and (b) of the Commission's Rules; therefore, under Section 1.1306, it is categorically excluded from the environmental processing.