

COPY

October 16, 2002

Brian Butler, Supervisory Engineer
Federal Communications Commission, Audio Division, Media Bureau
445 12th Street SW
Washington, DC 20554

Re: WRVJ.C
BPED20011023ACC

Dear Mr. Butler:

The State University of New York (SUNY) has been granted the above referenced construction permit for WRVJ, Watertown, NY. The application for this permit and its subsequent authorization specified the use of a 6-bay Shively (EPA Type #6) antenna.

SUNY wishes instead to utilize a 4-bay Shively (EPA Type #6) antenna. Our technical consultants, Doug Vernier Telecommunications Consultants, have performed a revised RF Hazard compliance statement, and have submitted the results in the enclosed Engineering Statement and Attachments.

Any questions regarding the findings of this study can be directed to Ms. Kate Michler of Doug Vernier Telecommunications Consultants at 319-266-8402.

Sincerely,



John Krauss
General Manager

Enc.



ENGINEERING STATEMENT

Concerning
State University of New York, Oswego
NCE FM Station WRVJ
Watertown, New York
File No. BPED20011023AAC

September 2002

CH 219A

1.6 kW H & V

We have been asked by the State University of New York, Oswego to conduct an R.F. hazard compliance study for WRVJ. The construction permit (BPED20011023AAC) for this modified facility specifies a Shively (EPA Type #6) six-bay antenna. The applicant wishes instead to utilize a four-bay Shively 6813 circularly polarized antenna.

Attachment #1 is an R.F. hazard compliance statement, showing the results of our analysis.

Page #2 of this engineering statement is a certification of the qualifications of the preparer.

Kate Michler

ATTACHMENT #1

R.F. RADIATION COMPLIANCE STATEMENT

WRVJ
Channel 219
Watertown, New York

September 2002

The proposed four bay, circularly polarized antenna will be energized such that it produces 1.6 kW effective radiated power from a center of radiation of 41 meters above ground. Using the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, and then by applying a combination of the element and array pattern as defined in E.P.A. study PB85-245868 ("**Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services**") the predicted level of RF non-ionization radiation at a position of 2 meters above ground (head-height) for the proposed 4-bay Shively 6813 (Type #6) antenna is 0.351 microwatts per square centimeter, which is 0.0351 percent of the maximum for an controlled area and 0.1757 percent for an uncontrolled area.

The new transmitter will contribute less than 1% of the maximum allowable radiation level. No further calculations were deemed necessary.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission.

Consequently, it appears that the proposed FM station, when using the antenna listed above, will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.

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Company Federal Communications Commission, Audio Division, Media Bureau

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