



**Office of General Counsel**

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April 14, 2022

**VIA Email to: [AudioFilings@fcc.gov](mailto:AudioFilings@fcc.gov)**

Marlene H. Dortch, Secretary  
Federal Communications Commission  
Office of the Secretary  
45 L Street NE  
Washington, DC 20554

Re: Request for Special Temporary Authority  
Reduced Power  
WHRW, Facility ID 63105

Dear Madam Secretary:

I am writing to request a Special Temporary Authority for WHRW, Facility ID 63105, due to reduced power operation beyond our control. Pursuant to 47 CFR 73.1560(d), this issue was reported via email on March 24, 2022, to Dale Bickel at the FCC.

A brief description of the problem and attempts to remedy are set forth below:

On Monday, March 14, 2022, the station went to reduced power operation. An initial fault appeared after running at reduced power for ~3 hours for work in the vicinity of the antenna on a lower roof level when the transmitter was set to return to nominal operating power. Transmitter shut itself down due to high reflected power.

It appears that the Shively 6812B 2-bay antenna has 'lost' a bay, likely (and hopefully) a cable or connector between the splitter and one antenna element but that is still to be determined through testing. VNA test of the antenna from the base of the transmission line shows 25 ohms on-frequency which is half of the expected 50 ohms; checking with Shively they confirm that this is likely to be a 'lost' bay.

This situation is causing intermittent readings of high reflected power even with reduced power operation.

The transmitter is currently operating at its minimum setting of 64W forward power and ~20W reflected (fluctuates, seen as low as 3W and as high as over 30W).

Calculations for feeding both bays, ignoring reflection loss, shows this to be providing

42W ERP but, with only a single bay presumed operational, ERP would be expected 1.88 dB less.

Attempted reducing speed at which transmitter ramps up to full power, seeing very high reflected power between 200W and 700W forward power on various attempts. As work with metal objects had occurred on the lower roof level around the time of failure, we attempted changing the electrical length and adding additional grounding to those items to no avail.

Transmission line tested with simple oscilloscope-based time-domain reflectometer, looked clean.

Transmitter was inspected fully, finding no issues, and tested into a 5kW rated load and able to sustain 1900W for 10 minutes with <1W reflected power and no fluctuations in the reported reflected power.

NanoVNA calibrated with 50 ohm load at end of clip leads, clipped onto transmission line and tested. Test showed 25ohms.

A crew has been scheduled to climb the antenna structure and inspect the cables/splitter/antenna assembly; tentatively set for the week of April 18, targeting April 20, weather dependent.

Attached to this letter is a completed anti-drug abuse certification, as required by regulation.

Sincerely,



Kevin M. Hayden

Chief Campus Counsel

Binghamton University

khayden@binghamton.edu

Attachment



Answer YES if all parties to the application are in compliance with Section 5301 of the *Anti-Drug Abuse Act of 1988*, 21 U.S.C. Section 862, the federal law which provides federal and state court judges the discretion to deny federal benefits to individuals convicted of offenses consisting of the distribution of controlled substances. For a definition of "party" for these purposes, see [47 C.F.R. Section 1.2002\(b\)](#). See also *Amendment of Part 1 of the Commission's Rules to Implement Section 5301 of the Anti-Drug Abuse Act of 1988*, 6 FCC Rcd 7551, 57 Fed. Reg. 00186 (1991).

         X       YES            NO       

By checking yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the *Anti-Drug Abuse Act of 1988*, 21 U.S.C. 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a party for these purposes, see [47 C.F.R. Section 1.2002\(b\)](#).

I certify that the statements made in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

State University of New York

Name of Applicant

Binghamton University

Signature and Date

Kevin M. Hayden April 14, 2022

Printed Name of Person Signing

Kevin M. Hayden

Chief Campus Counsel, Binghamton University

WHRW / Special Temporary Authority