

**NARRATIVE STATEMENT**

Pursuant to Section 5.3(j) and Section 5.61 of the FCC’s rules, American Water Works, Inc.. hereby respectfully requests a special temporary authority (“STA”) from March 24, 2023 to September 23, 2023 to operate in the 24.45-24.65 GHz band to test its EchoGuard radar.

**A. Purpose of Operation and Need for Special Temporary Authority:**

The EchoGuard radar has received equipment authorization from the FCC (FCC ID 2ANLB-MESASSR00053). However, American Water requests this STA to allow it to test the radar in specific scenarios in conjunction with customers. The STA is for testing purposes only and not for permanent installation of the radar. The testing under this STA is related to radiolocation applications.

**B. Location of Proposed Operation:**

American Water proposes to test the radar at a fixed location within the area described below.

<b>Location</b>	<b>Coordinates (NAD83)</b>	<b>Radius of Operation</b>
Woodbine Airport: 660 Henry Decinque Blvd Woodbine, NJ 08270	39° 13' 10" N 74° 47' 40" W	5 km

We are in contact with Doug Stroby, Atlantic City Tracon Manager with the FAA: 609-677-9152 as well as Jim Beam, Atlantic City Techops Manager with the FAA: 609-677-9620 who have given their approval regarding this operation and we will continue to coordinate any operations with them.

**C. Technical Specifications:**

**1. Frequencies Desired**

American Water requests authorization to operate in the 24.45-24.65 GHz band.

**2. Effective Radiated Power**

The units to be deployed operate at a peak maximum transmitter power output of 3.2W, and a peak maximum effective radiated power of 246W. Operations will be conducted to comply with rules relating to human exposure to radiation.

**3. Modulation and Emissions**

The EchoGuard radar operates using linear FM modulation. The emission designator is 45M0F3N. The emissions will not extend beyond the frequency bands requested.

**4. Antenna Information**

No antennas will be mounted in a fashion that would require approval under FAA or FCC rules and regulations.

**5. Equipment To Be Used**

American Water will conduct the testing with a maximum of 1 unit.

**D. Protection Against Causing Interference:**

American Water has conducted a search of the FCC's Universal Licensing System database and determined that there are no licensed operations in the 24.45-24.65 GHz band. In the event that it receives a complaint of harmful interference from the proposed operation, American Water will take immediate action to address the interference. The company has designated Mr. Chris Kahn (contact information below) to act as the "stop buzzer" for this purpose.

**E. Restrictions on Operation:**

American Water recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. Should interference occur, American Water will take immediate steps to resolve the interference, including discontinuing operations if necessary.

In addition, American Water will advise entities using the equipment that permission to operate has been granted under experimental authority issued to American Water, that such operation is strictly temporary, and that the equipment may not cause harmful interference.

**F. Public Interest:**

Grant of an authorization will permit American Water to refine its innovative radar equipment use and enhance public safety.

**G. Contact Information:**

For questions, please contact:

Chris Kahn  
American Water Corp.  
1 Water Street  
Camden, NJ 08102  
[christopher.kahn@amwater.com](mailto:christopher.kahn@amwater.com)

In the unlikely event interference concerns should arise during the period of authorization requested by this application, please contact the company's "Stop Buzzer" identified below:

Chris Kahn

American Water Corp.  
(551) 216 - 9539  
[christopher.kahn@amwater.com](mailto:christopher.kahn@amwater.com)