

**FCC FORM 442 - FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR NEW OR MODIFIED RADIO STATION UNDER PART 5 OF FCC RULES -  
EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)**

**Approved by  
OMB  
3060 - 0065  
Expires  
09/30/98**

**Applicant's Name (company):** Raytheon Company

**File No.:** 0120-EX-CN-2024

**Mailing Address**

**Attention:** Azuka Anuniru  
**Street Address:** 1001 Boston Post Road  
**P.O. Box:**  
**City:** Marlborough  
**State:** MA  
**Country:**  
**Zip Code:** 01752  
**E-Mail Address:** azuka.anuniru@rtx.com

**Application Purpose**

**Application is for:** NEW LICENSE

**For Modification indicate below**

**File No.:** Callsign:

**Government Contract**

**Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? If "YES", include as an exhibit a narrative statement describing the government project, agency and contract number.** No

**Foreign Government Use**

**Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? If "YES", include the contract number and the name of the foreign government concerned as an exhibit.** No

**Research Project**

**Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project)? If "YES", include as an exhibit the following information:**

- a. A description of the nature of the research project being conducted.
- b. A showing that the communications facilities requested are necessary for the research project involved.
- c. A showing that existing communications facilities are inadequate.

No

**Exhibit Information**

**If all the answers to Items 4, 5, 6 are "NO", include as an exhibit a narrative statement describing in detail the following items:**

- a. The complete program of research and experimentation proposed including description of equipment and theory of operation.
- b. The specific objectives sought to be accomplished.
- c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art, or is along line not already investigated.

**Estimated Duration**

Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: 24 Months

**Environmental Impact**

Would a commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? If "YES", include as an exhibit an Environmental Assessment as required by Section 1.1311. No

**Manufacturer**

List below transmitting equipment to be installed (if experimental, so state) if additional rows are required, please submit equipment list as an exhibit :

Manufacturer	Model Number	No. Of Units	Experimental
VIAVI	APM 424	1	No

**Station ID**

Is the equipment listed in Item 10 capable of station identification pursuant to Section 5.115? No

**Applicant Type**

Applicant is: Corporation

**Foreign Government**

Is applicant a foreign government or a representative of a foreign government? No

**License Denied or Revoked**

Has applicant or any party to this application had any FCC station license or permit revoked or any application for permit, license or renewal denied by this Commission?

If "YES", include as an exhibit a statement giving call sign of license or permit revoked and relate circumstances. No

**Owner and Operator**

Will applicant be owner and operator of the station? Yes

**Contact Information**

Give the following information of person who can best handle inquiries pertaining to this application: First Name: Azuka

Last Name: Anuniru

Title: Spectrum Manager

Phone Number: 2076064866

E-Mail Address: azuka.anuniru@rtx.com

**Drug Abuse Question**

**APPLICANT ANTI-DRUG ABUSE CERTIFICATION:** By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47CFR 1.2002(b). Yes

**Certification**

**THE APPLICANT CERTIFIES THAT:**

- a. Copies of the FCC Rule Parts 2 and 5 are on hand; and
- b. Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- c. All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and
- d. Grant of the authorization requested herein will not be construed as a finding on the part of the Commission:
  - 1. that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and
  - 2. that the applicant will be authorized to operate on any basis other than experimental, and
  - 3. that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis.

**THE APPLICANT FURTHER CERTIFIES THAT:**

- e. All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and
- f. The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and
- g. The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA.

**Name of Applicant:** Raytheon Company  
**Signature (Authorized person filing form):** Azuka Anuniru  
**Signature Date (Authorized person filing form):** 01/26/2024  
**Title of Person Signing Application:** Spectrum Manager  
**Classification:** Authorized employee

**WILLFUL FALSE STATEMENTS MADE 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).**

**NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980**

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specified by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered by the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

Public reporting burden for this collection of information is estimated to average four (4) hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0065), Washington DC 20554. **DO NOT** send completed applications to this address. Individuals are not required to respond to this collection unless it displays a currently valid OMD control number.

**THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e) (3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.**

**Station Location**

City	State	Latitude	Longitude	Mobile	Street (or other indication of location)	County	Radius of Operation
Redstone AL	Alabama	North 34 37 46	West 86 39 10			MADISON	10.00 km

**Datum:** NAD 83

**Is a directional antenna (other than radar) used?** No

**Exhibit submitted:** No

**(a) Width of beam in degrees at the half-power point:**

**(b) Orientation in horizontal plane (degrees from True North):**

**(c) Orientation in vertical plane (degrees from horizontal):**

**Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?** No

**(a) Overall height above ground to tip of antenna in meters:**

**(b) Elevation of ground at antenna site above mean sea level in meters:**

**(c) Distance to nearest aircraft landing area in kilometers:**

**(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft:** None

<b>Action Frequency</b>	<b>Station Class</b>	<b>Output Power/ERP</b>	<b>Mean Peak</b>	<b>Frequency Tolerance (+/-)</b>	<b>Emission Designator</b>	<b>Modulating Signal</b>
New 1090.00000000-MHz	FX	2.500000 mW 2.500000 mW	P	0.00100000 %	22M0V1D	Pulse
<b>Action Frequency</b>	<b>Station Class</b>	<b>Output Power/ERP</b>	<b>Mean Peak</b>	<b>Frequency Tolerance (+/-)</b>	<b>Emission Designator</b>	<b>Modulating Signal</b>
New 1090.00000000-MHz	FX	2.500000 mW 2.500000 mW	P	0.00100000 %	8M00V1D	Pulse

**Accept**

**Add Data/Make Changes**