

**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):** DRS C3 & Aviation Company

**File No.:** 0189-EX-ML-2013

**Mailing Address**

**Attention:** Jim Groesch  
**Street Address:** 201 Evans Lane  
**P.O. Box:**  
**City:** St. Louis  
**State:** MO  
**Country:**  
**Zip Code:** 63121  
**E-Mail Address:** James.Groesch@drs.com

**Application Purpose**

**Application is for:** MODIFICATION OF LICENSE

**For Modification indicate below**

**File No.:** 0132-EX-ML-2012 **Call sign:** WE2XPT

**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.

Yes

**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 |
|-------------------------------|--------------|--------------|--------------|
| DRS Sustainment Systems, Inc. | AN/PPS-5C    | 10           | Yes          |

#### 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:

Jim

Last Name: Groesch

Title: MSTAR Program Manager

Phone Number: 314-553-4156

E-Mail Address: James.Groesch@drs.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:

- Copies of the FCC Rule Parts 2 and 5 are on hand; and
- Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- 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:** DRS C3 & Aviation Company

**Signature (Authorized person filing form):** Jim Groesch

**Signature Date (Authorized person filing form):** 10/18/2013

**Title of Person Signing Application:** MSTAR Program 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 |
|-----------|----------|----------------|---------------|----------------------------------|------------------------------------------|--------|---------------------|
| St. Louis | Missouri | North 38 43 33 | West 90 18 27 | St. Louis, MO - DRS SSI Facility |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us pulse at 9924 pps |

| City         | State   | Latitude       | Longitude    | Mobile               | Street (or other indication of location) | County | Radius of Operation |
|--------------|---------|----------------|--------------|----------------------|------------------------------------------|--------|---------------------|
| 0 Huntsville | Alabama | North 34 44 27 | West 86 36 1 | Huntsville, Alabama. |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

Street (or other

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | City                        | State                | Latitude                   | Longitude        | Mobile                           | Indication of location)                         | County                    | Radius of Operation        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|----------------------------|------------------|----------------------------------|-------------------------------------------------|---------------------------|----------------------------|
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fort Walton Beach           | Florida              | North 30 24 20             | West 86 37 8     | Fort Walton Beach, Florida       |                                                 |                           | 100.00                     |
| <b>Datum:</b> NAD 83<br><b>Is a directional antenna (other than radar) used?</b> No<br><b>Exhibit submitted:</b> No<br><b>(a) Width of beam in degrees at the half-power point:</b><br><b>(b) Orientation in horizontal plane:</b><br><b>(c) Orientation in vertical plane:</b><br><b>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?</b> No<br><b>(a) Overall height above ground to tip of antenna in meters:</b><br><b>(b) Elevation of ground at antenna site above mean sea level in meters:</b><br><b>(c) Distance to nearest aircraft landing area in kilometers:</b><br><b>(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:</b> |                             |                      |                            |                  |                                  |                                                 |                           |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 21M3P0N                                         |                           |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 42M0F0N                                         |                           |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 11M5Q3N                                         | 9.7 us Pulse at 5540 pps  |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 12M2P0N                                         | 0.16 us Pulse at 9924 pps |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>City</b>                 | <b>State</b>         | <b>Latitude</b>            | <b>Longitude</b> | <b>Mobile</b>                    | <b>Street (or other indication of location)</b> | <b>County</b>             | <b>Radius of Operation</b> |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pensacola                   | Florida              | North 30 25 16             | West 87 13 1     | Pensacola, Florida               |                                                 |                           | 100.00                     |
| <b>Datum:</b> NAD 83<br><b>Is a directional antenna (other than radar) used?</b> No<br><b>Exhibit submitted:</b> No<br><b>(a) Width of beam in degrees at the half-power point:</b><br><b>(b) Orientation in horizontal plane:</b><br><b>(c) Orientation in vertical plane:</b><br><b>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?</b> No<br><b>(a) Overall height above ground to tip of antenna in meters:</b><br><b>(b) Elevation of ground at antenna site above mean sea level in meters:</b><br><b>(c) Distance to nearest aircraft landing area in kilometers:</b><br><b>(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:</b> |                             |                      |                            |                  |                                  |                                                 |                           |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Station</b>              | <b>Output</b>        | <b>Mean</b>                | <b>Frequency</b> | <b>Emission</b>                  | <b>Modulating</b>                               |                           |                            |

| Action | Frequency                   | Class         | Power/ERP                  | Peak      | Tolerance (+/-)           | Designator          | Signal                    |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City       | State   | Latitude     | Longitude     | Mobile            | Street (or other indication of location) | County | Radius of Operation |
|------------|---------|--------------|---------------|-------------------|------------------------------------------|--------|---------------------|
| 0 Palm Bay | Florida | North 28 2 4 | West 80 35 13 | Palm Bay, Florida |                                          |        | 100.00              |

**Datum:** NAD 83

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

**Exhibit submitted:** No

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**(b) Orientation in horizontal plane:**

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| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City | State | Latitude | Longitude | Mobile | Street (or other indication of location) | County | Radius of Operation |
|------|-------|----------|-----------|--------|------------------------------------------|--------|---------------------|
|------|-------|----------|-----------|--------|------------------------------------------|--------|---------------------|

0 Yuma Arizona North 32 43 West 114 Yuma, Arizona. 100.00  
29 37 25

**Datum:** NAD 83

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

**Exhibit submitted:** No

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| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

| City         | State      | Latitude       | Longitude      | Mobile                  | Street (or other indication of location) | County | Radius of Operation |
|--------------|------------|----------------|----------------|-------------------------|------------------------------------------|--------|---------------------|
| 0 Las Cruces | New Mexico | North 32 18 46 | West 106 46 41 | Las Cruces, New Mexico. |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

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| Action | Frequency    | Station Class | Output Power/ERP | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|--------------|---------------|------------------|-----------|---------------------------|---------------------|-------------------|
|        | 16.75000000- |               | 7.000000 W       |           |                           |                     |                   |

|                         |                             |                      |                            |                  |                                  |                            |                           |
|-------------------------|-----------------------------|----------------------|----------------------------|------------------|----------------------------------|----------------------------|---------------------------|
| New                     | 17.25000000 GHz             | MO                   | 25.000000 kW               | P                |                                  | 21M3P0N                    |                           |
| <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                     | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 42M0F0N                    |                           |
| <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                     | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 11M5Q3N                    | 9.7 us Pulse at 5540 pps  |
| <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                     | 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 12M2P0N                    | 0.16 us Pulse at 9924 pps |

  

| City     | State      | Latitude      | Longitude     | Mobile              | Street (or other indication of location) | County | Radius of Operation |
|----------|------------|---------------|---------------|---------------------|------------------------------------------|--------|---------------------|
| 0 Playas | New Mexico | North 31 55 0 | West 108 32 4 | Playas, new Mexico. |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

|                                 |                      |                            |                  |                                  |                            |                           |
|---------------------------------|----------------------|----------------------------|------------------|----------------------------------|----------------------------|---------------------------|
| <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 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 21M3P0N                    |                           |
| <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 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 42M0F0N                    |                           |
| <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 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 11M5Q3N                    | 9.7 us Pulse at 5540 pps  |
| <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 16.75000000-17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 12M2P0N                    | 0.16 us Pulse at 9924 pps |

  

| City     | State      | Latitude      | Longitude      | Mobile              | Street (or other indication of location) | County | Radius of Operation |
|----------|------------|---------------|----------------|---------------------|------------------------------------------|--------|---------------------|
| 0 Deming | New Mexico | North 32 16 7 | West 107 45 29 | Deming, New Mexico. |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|--------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

| City        | State    | Latitude       | Longitude     | Mobile              | Street (or other indication of location) | County | Radius of Operation |
|-------------|----------|----------------|---------------|---------------------|------------------------------------------|--------|---------------------|
| 0 Baltimore | Maryland | North 39 17 25 | West 76 36 45 | Baltimore, Maryland |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |

| Station | Output | Mean | Frequency | Emission | Modulating |
|---------|--------|------|-----------|----------|------------|
|---------|--------|------|-----------|----------|------------|

| Action | Frequency                   | Class         | Power/ERP                  | Peak      | Tolerance (+/-)           | Designator          | Signal                    |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q0N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City      | State    | Latitude      | Longitude     | Mobile            | Street (or other indication of location) | County | Radius of Operation |
|-----------|----------|---------------|---------------|-------------------|------------------------------------------|--------|---------------------|
| 0 Fairfax | Virginia | North 38 51 6 | West 77 17 53 | Fairfax, Virginia |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City             | State      | Latitude       | Longitude    | Mobile                     | Street (or other indication of location) | County | Radius of Operation |
|------------------|------------|----------------|--------------|----------------------------|------------------------------------------|--------|---------------------|
| 0 Imperial Beach | California | North 32 34 36 | West 117 7 4 | Imperial Beach, California |                                          |        | 100.00              |

**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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

|   | City      | State      | Latitude       | Longitude      | Mobile                 | Street (or other indication of location) | County | Radius of Operation |
|---|-----------|------------|----------------|----------------|------------------------|------------------------------------------|--------|---------------------|
| 0 | El Centro | California | North 34 47 12 | West 115 33 50 | El Centro, California. |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |

|               |                                 |                      |                            |                  |                                  |                            |                           |
|---------------|---------------------------------|----------------------|----------------------------|------------------|----------------------------------|----------------------------|---------------------------|
| New           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 42M0F0N                    |                           |
| <b>Action</b> | <b>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           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 11M5Q3N                    | 9.7 us Pulse at 5540 pps  |
| <b>Action</b> | <b>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           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 12M2P0N                    | 0.16 us Pulse at 9924 pps |

  

|   | City   | State   | Latitude       | Longitude      | Mobile          | Street (or other indication of location) | County | Radius of Operation |
|---|--------|---------|----------------|----------------|-----------------|------------------------------------------|--------|---------------------|
| 0 | Tucson | Arizona | North 32 13 40 | West 110 56 40 | Tucson, Arizona |                                          |        | 160.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

|               |                                 |                      |                            |                  |                                  |                            |                           |
|---------------|---------------------------------|----------------------|----------------------------|------------------|----------------------------------|----------------------------|---------------------------|
| <b>Action</b> | <b>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           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 21M3P0N                    |                           |
| <b>Action</b> | <b>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           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 42M0F0N                    |                           |
| <b>Action</b> | <b>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           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 11M5Q3N                    | 9.7 us Pulse at 5540 pps  |
| <b>Action</b> | <b>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           | 16.75000000-<br>17.25000000 GHz | MO                   | 7.000000 W<br>25.000000 kW | P                |                                  | 12M2P0N                    | 0.16 us Pulse at 9924 pps |

  

|   | City    | State | Latitude       | Longitude      | Mobile         | Street (or other indication of location) | County | Radius of Operation |
|---|---------|-------|----------------|----------------|----------------|------------------------------------------|--------|---------------------|
| 0 | El Paso | Texas | North 31 45 48 | West 106 29 30 | El Paso, Texas |                                          |        | 100.00              |

**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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

| City     | State      | Latitude       | Longitude      | Mobile              | Street (or other indication of location) | County | Radius of Operation |
|----------|------------|----------------|----------------|---------------------|------------------------------------------|--------|---------------------|
| 0 Lynden | Washington | North 48 56 47 | West 122 27 33 | Lynden, Washington. |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City      | State | Latitude      | Longitude     | Mobile         | Street (or other indication of location) | County | Radius of Operation |
|-----------|-------|---------------|---------------|----------------|------------------------------------------|--------|---------------------|
| 0 Houlton | Maine | North 46 7 32 | West 67 50 29 | Houlton, Maine |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City      | State    | Latitude       | Longitude    | Mobile             | Street (or other indication of location) | County | Radius of Operation |
|-----------|----------|----------------|--------------|--------------------|------------------------------------------|--------|---------------------|
| 0 Detroit | Michigan | North 42 19 49 | West 83 2 45 | Detroit, Michigan. |                                          |        | 100.00              |

**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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

|   | City     | State        | Latitude      | Longitude     | Mobile                  | Street (or other indication of location) | County | Radius of Operation |
|---|----------|--------------|---------------|---------------|-------------------------|------------------------------------------|--------|---------------------|
| 0 | Wyndmoor | Pennsylvania | North 40 5 28 | West 75 11 14 | Wyndmoor, Pennsylvania. |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |
| Action | Frequency                   | Station       | Output                     | Mean      | Frequency                 | Emission            | Modulating        |

|                                 | Class         | Power/ERP                  | Peak      | Tolerance (+/-)           | Designator          | Signal                    |
|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action Frequency                | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City                | State      | Latitude     | Longitude     | Mobile                         | Street (or other indication of location) | County | Radius of Operation |
|---------------------|------------|--------------|---------------|--------------------------------|------------------------------------------|--------|---------------------|
| 0 Twenty-Nine Palms | California | North 34 8 8 | West 116 3 57 | Twenty-Nine Palms, California. |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

| Action Frequency                | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action Frequency                | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action Frequency                | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action Frequency                | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City   | State   | Latitude       | Longitude      | Mobile    | Street (or other indication of location) | County | Radius of Operation |
|--------|---------|----------------|----------------|-----------|------------------------------------------|--------|---------------------|
| 0 Mesa | Arizona | North 33 24 55 | West 111 49 23 | Mesa, AZ. |                                          |        | 100.00              |

**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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

| City           | State   | Latitude       | Longitude      | Mobile            | Street (or other indication of location) | County | Radius of Operation |
|----------------|---------|----------------|----------------|-------------------|------------------------------------------|--------|---------------------|
| 0 Sierra Vista | Arizona | North 31 33 50 | West 110 18 59 | Sierra Vista, AZ. |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |

|     |                                 |    |                            |   |  |         |                             |
|-----|---------------------------------|----|----------------------------|---|--|---------|-----------------------------|
| New | 16.75000000-<br>17.25000000 GHz | MO | 7.000000 W<br>25.000000 kW | P |  | 11M5Q3N | 9.7 us Pulse at<br>5540 pps |
|-----|---------------------------------|----|----------------------------|---|--|---------|-----------------------------|

| Action | Frequency                       | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-<br>17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

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|   | City      | State         | Latitude          | Longitude        | Mobile        | Street (or other indication of location) | County | Radius of Operation |
|---|-----------|---------------|-------------------|------------------|---------------|------------------------------------------|--------|---------------------|
| 0 | Billerica | Massachusetts | North 42 37<br>48 | West 71<br>17 24 | Billerica, MA |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

| Action | Frequency                       | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-<br>17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |

| Action | Frequency                       | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-<br>17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |

| Action | Frequency                       | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal           |
|--------|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-----------------------------|
| New    | 16.75000000-<br>17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at<br>5540 pps |

| Action | Frequency                       | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|---------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-<br>17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

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|   | City   | State      | Latitude         | Longitude        | Mobile     | Street (or other indication of location) | County | Radius of Operation |
|---|--------|------------|------------------|------------------|------------|------------------------------------------|--------|---------------------|
| 0 | Goleta | California | North 34 26<br>6 | West 119<br>50 6 | Goleta, CA |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

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:**

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

|   | City       | State      | Latitude       | Longitude      | Mobile         | Street (or other indication of location) | County | Radius of Operation |
|---|------------|------------|----------------|----------------|----------------|------------------------------------------|--------|---------------------|
| 0 | San Miguel | California | North 35 45 18 | West 120 41 24 | San Miguel, CA |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

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:**

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|--------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                          |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                          |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City        | State      | Latitude       | Longitude     | Mobile        | Street (or other indication of location) | County | Radius of Operation |
|-------------|------------|----------------|---------------|---------------|------------------------------------------|--------|---------------------|
| 0 Princeton | New Jersey | North 40 20 42 | West 74 39 18 | Princeton, NJ |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|--------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps |

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

| City           | State    | Latitude      | Longitude     | Mobile           | Street (or other indication of location) | County | Radius of Operation |
|----------------|----------|---------------|---------------|------------------|------------------------------------------|--------|---------------------|
| 0 Gaithersburg | Maryland | North 39 7 48 | West 77 12 18 | Gaithersburg, MD |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

|   | City    | State        | Latitude       | Longitude    | Mobile      | Street (or other indication of location) | County | Radius of Operation |
|---|---------|--------------|----------------|--------------|-------------|------------------------------------------|--------|---------------------|
| 0 | Horsham | Pennsylvania | North 40 10 47 | West 75 7 30 | Horsham, PA |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|--------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                          |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                          |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps |
| Action | Frequency                   | Station       | Output                     | Mean      | Frequency Tolerance       | Emission            | Modulating               |

|     | Class                       | Power/ERP | Peak                       | (+/-) | Designator | Signal                    |
|-----|-----------------------------|-----------|----------------------------|-------|------------|---------------------------|
| New | 16.75000000-17.25000000 GHz | MO        | 7.000000 W<br>25.000000 kW | P     | 12M2P0N    | 0.16 us Pulse at 9924 pps |

  

|   | City  | State   | Latitude       | Longitude    | Mobile    | Street (or other indication of location) | County | Radius of Operation |
|---|-------|---------|----------------|--------------|-----------|------------------------------------------|--------|---------------------|
| 0 | Largo | Florida | North 27 54 54 | West 82 47 6 | Largo, FL |                                          |        | 100.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:**

  

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                   |

  

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|-------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                   |

  

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal        |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|--------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps |

  

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

  

|   | City    | State   | Latitude       | Longitude     | Mobile      | Street (or other indication of location) | County | Radius of Operation |
|---|---------|---------|----------------|---------------|-------------|------------------------------------------|--------|---------------------|
| 0 | Nogales | Arizona | North 31 20 42 | West 110 56 6 | Nogales, AZ |                                          |        | 160.00              |

**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:**

**(c) Orientation in vertical plane:**

**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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

| City      | State   | Latitude      | Longitude     | Mobile      | Street (or other indication of location) | County | Radius of Operation |
|-----------|---------|---------------|---------------|-------------|------------------------------------------|--------|---------------------|
| 0 Douglas | Arizona | North 31 21 0 | West 109 33 0 | Douglas, AZ |                                          |        | 160.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

GHz

|   | City     | State      | Latitude      | Longitude      | Mobile       | Street (or other indication of location) | County | Radius of Operation |
|---|----------|------------|---------------|----------------|--------------|------------------------------------------|--------|---------------------|
| 0 | Columbus | New Mexico | North 31 50 5 | West 107 38 37 | Columbus, NM |                                          |        | 160.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

|   | City         | State   | Latitude       | Longitude    | Mobile           | Street (or other indication of location) | County | Radius of Operation |
|---|--------------|---------|----------------|--------------|------------------|------------------------------------------|--------|---------------------|
| 0 | Indianapolis | Indiana | North 39 44 22 | West 86 9 18 | Indianapolis, IN |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |

| City    | State   | Latitude       | Longitude    | Mobile    | Street (or other indication of location) | County | Radius of Operation |
|---------|---------|----------------|--------------|-----------|------------------------------------------|--------|---------------------|
| 0 Crane | Indiana | North 38 53 27 | West 86 54 2 | Crane, IN |                                          |        | 100.00              |

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:

(c) Orientation in vertical plane:

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:

| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
|--------|-----------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|---------------------------|
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 21M3P0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 42M0F0N             |                           |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 11M5Q3N             | 9.7 us Pulse at 5540 pps  |
| Action | Frequency                   | Station Class | Output Power/ERP           | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal         |
| New    | 16.75000000-17.25000000 GHz | MO            | 7.000000 W<br>25.000000 kW | P         |                           | 12M2P0N             | 0.16 us Pulse at 9924 pps |