

ABR

102



STATE OF NEW HAMPSHIRE
DEPARTMENT of NATURAL and CULTURAL RESOURCES
DIVISION OF FORESTS AND LANDS

172 Pembroke Road Concord, New Hampshire 03301
Phone: 603-271-2214 Fax: 603-271-6488 www.nhdfi.org

May 18, 2022

His Excellency, Governor Christopher T. Sununu
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Pursuant to RSA 227-H:9, authorize the Department of Natural and Cultural Resources (DNCR), Division of Forests and Lands enter into a Memorandum of Agreement with NH Department of Transportation, TMC Communications (DOT) of Concord, New Hampshire for equipment and antenna space in designated areas at Mount Washington in Mount Washington State Park for a 5-year period beginning July 1, 2022 through June 30, 2027, effective upon Governor and Council approval.

Funds are to be deposited in the following account:

03-035-035-351510-37420000 - Mt Washington Commission

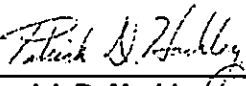
Contract Year	Class-Account-RG	Class- Account Title	Annual Rent Amount
2022	003-402040-26	Revolving Fund - Mt Washington Commission	\$14,214
2023	003-402040-26	Revolving Fund - Mt Washington Commission	\$14,214
2024	003-402040-26	Revolving Fund - Mt Washington Commission	\$14,214
2025	003-402040-26	Revolving Fund - Mt Washington Commission	\$14,214
2026	003-402040-26	Revolving Fund - Mt Washington Commission	\$14,214
Total:			\$71,070

EXPLANATION

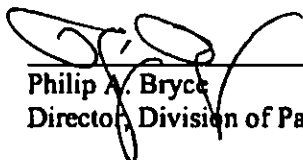
DOT has land mobile radio repeaters on Mount Washington for operations purposes. These repeaters provide truck-to-truck as well as District-1 and Statewide dispatch communications for day-to-day operations and incident management. DOT has been a tenant on Mount Washington for more than 20 years. All installed communication equipment shall meet the guidelines set forth by DNCR's "Technical Requirements for the Use of Communication Sites" attached as Exhibit A to the agreement.

The Attorney General's office has reviewed and approved this Memorandum of Agreement as to form, substance, and execution.

Respectfully submitted,




Patrick D. Hackley
Director, Division of Forests and Lands



Philip A. Bryce
Director, Division of Parks and Recreation

Concurred,



Sarah L. Stewart
Commissioner

MEMORANDUM OF AGREEMENT
between the
DEPARTMENT OF NATURAL AND CULTURAL RESOURCES
and the
NH DEPARTMENT OF TRANSPORTATION, TMC COMMUNICATIONS

<u>CRITICAL DATES / TERM / RENT</u> (for DNCR use only)	
DEFINITION	DATE
Term Effective Date: Governor and Council approval Date	
Term & Initial Annual Rent: 5 years subject to Governor & Council approval starting with a \$14,214.00 annual rent. (no annual escalator shall apply to NH state agencies)	01-Jul-2022

This Memorandum of Agreement ("Agreement") is entered into between the New Hampshire Department of Natural and Cultural Resources (DNCR), 172 Pembroke Road, Concord, New Hampshire 03301, and the NH DEPARTMENT OF TRANSPORTATION, TMC COMMUNICATIONS , (DOT), 110 Smokey Bear Blvd, Concord, NH 03301

WHEREAS Mount Washington State Park, located at the Summit of Mount Washington in Sargent's Purchase, New Hampshire, is owned by the State of New Hampshire and managed by DNCR through the Division of Parks and Recreation;

WHEREAS DOT currently occupies space in and on the Yankee Building on the summit of Mount Washington for equipment associated with its statewide radio system for the purpose of agency and public safety communications;

NOW THEREFORE, DNCR and DOT (Parties) agree to the following terms:

1. **Occupied Space.** Pursuant to the equipment list here attached as Exhibit B, DOT shall have the right to occupy certain space on the second floor of the Yankee Building for two equipment racks taking up approximately 10 square feet of floor space and two (2) four-foot whip antennas attached to the roof of the Yankee Building (the Premises). DOT shall also have the right to common areas necessary for access to lavatories.
2. **Term.** The Agreement shall be in effect from 01-Jul-2022 until 30-Jun-2027.

3. **Beneficial Services.** Not Applicable

4. **Rent.** DOT shall pay DNCR rent annually on July 1st, and in accordance with the table below:

Year	Annual Rent
2022	\$14,214.00
2023	\$14,214.00
2024	\$14,214.00
2025	\$14,214.00
2026	\$14,214.00
Total	\$71,070.00

5. **Access.** Access to Mount Washington during the summer season shall be coordinated and scheduled directly with the State. As The Mount Washington Auto Road leading to the summit and the State Park is a separate, privately owned Road, any separate expenses associated with use of the Road charged by the Mount Washington Auto Road shall be at the DOT's own expense. DOT shall also follow all rules and requirements of the Mount Washington Auto Road while using the Road. DOT, to the greatest extent possible, shall schedule non-emergency access at dates and times that cause the least amount of conflict with the public recreational use of the Property. Where possible, at its sole discretion and if space permits, the State will endeavor to provide DOT with transport on scheduled State transportation free of charge.

The State shall provide DOT with transportation during the winter season on an "available space" basis. Trips scheduled during normal shift changes shall be at a rate of \$100.00 per seat. For unscheduled or emergency trips, DOT shall pay \$500 per trip, plus the current hourly rate for State Park Staff Site Support labor and fuel costs. The State, at its sole discretion, may waive these fees if it deems appropriate.

DOT will be held responsible for damage to State land resulting from improper motorized access to Mount Washington State Park by DOT, or their agents.

Access contact:

Mt. Washington State Park Manager (MWSP) (603) 466-3347
Department of Natural and Cultural Resources (DNCR) Communications Program
Coordinator (603) 271-2214

DNCR shall be notified forty eight (48) hours before the start of work, or planned maintenance, at the site during normal business hours, Monday thru Friday between 8 a.m.

and 4 p.m., however; unexpected/emergency repairs may be made immediately, with notice of such actions being made to DNCR within twenty four (24) hours.

Access Notifications should be made via phone to:

Communications Program Coordinator
Division of Forests and Lands
172 Pembroke Rd
Concord NH 03301
Office: (O)603-271-2214

DOT agrees that the Director, Division of Forests and Lands, or any of his duly authorized agents, at any time may examine and inspect any and all property located and situated on and in the Communication Site.

6. **Technical Requirements** Equipment installation shall conform to the State of New Hampshire, Department of Natural and Cultural Resources Technical Requirements for use of Communication Sites adopted June 30, 1995 and last revised in July 2017 which is attached hereto as Exhibit A.
7. **Assignment.** DOT shall not assign its rights under the Agreement to any other third party without DNCR's prior written consent.
8. **Termination.** Either DNCR or DOT may terminate this agreement in its entirety by providing the other party with a 90 day written notice. Such notice shall be deemed properly given upon the posting in the United States mail.

Following notice of termination, DOT shall remove all equipment, personal property, fixtures and appurtenances associated with the MOA, and repair any damage caused by its use of the Communications Site or from the removal of the equipment, personal property, fixtures and appurtenances. If such removal or repairs are not completed in 90 days after the date of notification of the termination, DNCR reserves the right, at the expense of DOT to complete the removal and repairs as necessary to the satisfaction of DNCR.

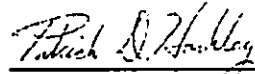
9. **Notices** All notices, demands, requests and other communications required by the Agreement shall be in writing and shall be delivered to:
 - (a) DNCR:
The State of New Hampshire
Department of Natural and Cultural Resources
172 Pembroke Road
Concord, New Hampshire 03301

Attention: Sarah L. Stewart, Commissioner (or duly appointed successor)
or at such other address of DNCR from time to time may have designated by
written notice to DOT. Such notice shall be deemed properly given upon the
posting in the United States mail.

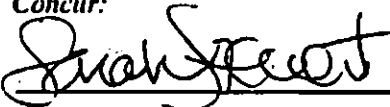
- (b) DOT:
The State of New Hampshire
Department of Transportation
PO BOX 483
Concord, NH 03302-0483
Attention: Victoria Sheehan – Commissioner (or duly appointed successor)
or at such other address as the DOT from time to time may have designated by
written notice to the DNCR. Such notice shall be deemed properly given upon
the posting in the United States mail.

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STATE OF NEW HAMPSHIRE
DEPARTMENT OF NATURAL AND CULTURAL RESOURCES



Patrick D. Hackley Date
Division of Forests and Lands

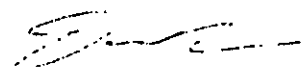
Concur:


Sarah L. Stewart Date
Commissioner

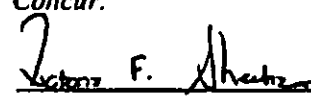


Philip A. Bryce Date
Division of Parks and Recreation

STATE OF NEW HAMPSHIRE
NH DEPARTMENT OF TRANSPORTATION, TMC COMMUNICATIONS



David Rodriguez, P.E. Date
NH DOT Director of Operations

Concur:


Victoria F. Sheehan Date
Commissioner

Approved to Form, Substance and Execution,



Attorney General's Office Date
New Hampshire Department of Justice

Governor and Executive Council Approved: Date _____ Item No. _____

NH Department of Natural and Cultural Resources
Division of Forests and Lands
Land Management Bureau
Communication Sites Contact Information

NH State Use Only

Rev: 1.1

Customer #: 810017880

Company:

Site: Washington

Invoice:

Company	NHDOT-TSMO
Company2	
Contact	
Title	
Address 1	PO Box 483
Address 2	
Address 3	
City	Concord
State	NH
Zip Code	03302-0483
Office Phone	603-227-0018
Mobile Phone	
Email	Bureau56@dot.nh.gov

Agreement:

☒ Same as Invoice

Company	
Company2	
Contact	
Title	
Address 1	
Address 2	
Address 3	
City	
State	
Zip Code	
Office Phone	
Mobile Phone	
Email	

Technical:

☒ Same as Agreement

Company	NHDOT TMC
Company2	
Contact	David Chase
Title	Communications Supervisor
Address 1	
Address 2	
Address 3	
City	
State	
Zip Code	03302-0483
Office Phone	603-227-0018
Mobile Phone	603-988-8206
Email	david.s.chase@dot.nh.gov

Emergency (24 Hr)

☐ Same as Technical

Company	NHDOT
Company2	Transportation Management Center
Contact	
Title	
Address 1	110 Smokey Bear Blvd.
Address 2	
Address 3	
City	Concord
State	NH
Zip Code	03301
Office Phone	603-271-6862
Mobile Phone	
Email	

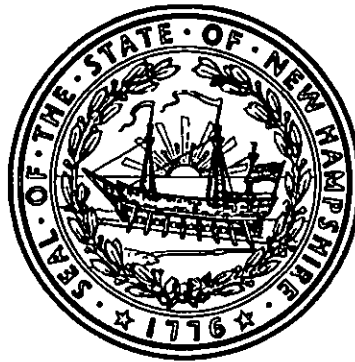
Notes: 2022

Signed:

David S. Chase
for Bureau of TSMO

Date: 4/8/2022

STATE OF NEW HAMPSHIRE
DEPARTMENT OF NATURAL AND CULTURAL RESOURCES



**TECHNICAL REQUIREMENTS
FOR USE OF COMMUNICATION SITES**

Adopted June 30, 1995
Reviewed April 27, 2005
Revised February, 2014
Formatting/Name Revised July 24, 2017

Jeffrey J. Rose, Commissioner
172 Pembroke Road
Concord, N.H. 03301

State of New Hampshire
Department of Natural and Cultural Resources
Technical Requirements
For Use of Communication Sites

Introduction

The following outlines technical requirements for installation, operation and maintenance of communication equipment and appurtenances at Department of Natural and Cultural Resources (DNCR) communication sites as required by Item III.H.6 of the DNCR "Policy On Use and Management of Mountaintops for Communication Facilities". As stated in the policy, all requests for new communication equipment installations or modifications of existing equipment require review by the Communication Site Advisory Committee and approval by the Commissioner.

The Commissioner, with counsel from the Communication Site Advisory Committee, shall be the final authority in resolution of any conflicts between site users or in interpretation of these technical requirements and may require testing of user's equipment to determine compliance or to investigate possible sources of interference.

These requirements are in addition to any standards or conditions contained in the lease/use agreement.

These requirements shall apply to all new communications facilities and to existing facilities that are upgraded or expanded. The requirements may be waived or modified by the DNCR Site Manager for facilities and/or users in existence at the date of adoption, as communication site conditions warrant.

Transmitters and Associated Equipment

- A. Transmitters shall be equipped with isolators to provide the following minimum isolation to reduce the possibility of intermodulation interference.
 - 25 db (70 MHz to 220 MHz)
 - 50 db (220 MHz to 1000 MHz)
 - 75 db (1000 MHz to 76 GHz)
- B. A Bandpass cavity shall be used between each antenna and associated transmitter or combiner. A combiner, or duplexer will satisfy this requirement.
- C. R.F. Devices including duplexers, isolators, cavities, switches, etc. shall be located inside grounded cabinets where physically possible. Open racks may be permitted on a site by site basis to fit specific needs.
- D. Grounding to each cabinet and device shall be installed and comply with current Standards and Guidelines for Communication Sites (R56), NFPA 780: Standard for the Installation of Lightning Protection Systems, and NFPA 70: National Electrical Code® when applicable.
- E. Transmission lines entering enclosed equipment cabinets shall do so via bulkhead connectors. Type "N" bulkhead connectors shall be used above 54 MHz.
- F. Power, telephone, network, or control lines shall be protected by grommets where they enter enclosed radio cabinets. Where high R.F. fields exist, telephone lines and control lines shall enter radio cabinets via RFI filtration devices.

- G. The use of RG\8, RG\58, braided shield, single shield coax cable or aluminum shielded cable is not permitted. This includes cables located within cabinets or racks. PTP, Microwave, or GPS systems whose manufacturer requires the use of LMR-400 or similar cable will be exempt providing the manufacturer's documentation is submitted to the DNCR site manager prior to installation. Double shielded RG\58 (Belden 8268, etc.) may be used in external frequency reference and 1 PPS launch timing applications.
- H. Ethernet cable (CAT5e, CAT6, etc.) shall be routed to not interfere or receive interference from RF equipment.
- I. Ethernet cable (CAT5e, CAT6, etc.) shall be plenum rated for in shelter use and shielded/ outdoor rated when used outside of the shelter or on the tower.
- J. Ethernet cable (CAT5e, CAT6, etc.), and telephone lines shall be grounded upon entry into the shelter from an outside source (tower mounted equipment, or telco lines) using a UL listed surge suppressor and shall be installed in accordance with current Standards and Guidelines for Communication Sites (R56), NFPA 780: Standard for the Installation of Lightning Protection Systems, and NFPA 70: National Electrical Code® when applicable.
- K. Microwave or PTP transceivers shall be secured to an open rack or mounted within an enclosed cabinet. Unsecured devices will not be permitted.
- L. At no time will any equipment be mounted to an ice bridge or its support structure.
- M. Microwave or PTP ODU (Outdoor Units) should be mounted as close to the antenna as possible.

Antenna System Requirements

- A. Antenna systems must be approved by the DNCR Site Manager prior to the commencement of installation work. The cost of any changes to the existing tower including structural work, tower painting, tower lighting, etc. will be paid for by the site user. Rearrangements of existing antennas will not be considered except under unusual circumstances.
- B. The design of each proposed antenna systems shall take into account the following:
 - *Antenna location will be assigned by the DNCR Site Manager based on available space, required radiation pattern, transmitter power and frequency, antenna type, mounting restrictions and interference considerations.
 - *Only antennas which provide a direct dc path to ground may be utilized.
 - *Antennas shall be equipped with coaxial lightning protectors meeting ANSI standard 62.1. Lightning protectors shall be connected to site ground system in accordance with current Standards and Guidelines for Communication Sites (R56) and NFPA 780: Standard for the Installation of Lightning Protection Systems.
 - *R.F. link antennas, control antennas, and Microwave Antennas will be assigned mounting positions as low on the tower as possible.

*Metal antenna mounting hardware and falling ice protection hardware will be hot dipped galvanized or stainless steel.

*Only solid copper jacketed coax cable will be permitted for antenna cable runs. PTP, Microwave, or GPS systems whose manufacturer requires the use of LMR-400 or similar cable will be exempt providing the manufacturer's documentation is submitted to the DNCR site manager prior to installation.

*Coax cable shall be individually attached to the tower legs or waveguide hangers. The location of coax cable runs will be assigned by the DNCR Site Manager.

*Attachment of coax cable will be by stainless steel clamps or hangers spaced a maximum of three feet apart.

*The use of plastic " tie wraps " to support coax cable in any location is not permitted. The use of coating products that emit acetic acid are not permitted. Use of ultra-violet protected "tie wraps" are allowed on a temporary basis during construction or for temporary installations.

*Grounding kits with solid copper straps and mechanical compression shall be installed at top of tower, at point where coax cable departs the tower, and at the building entrance point. These clamps will be properly sealed to prevent corrosion at the coax cable connection. Stainless steel connectors will be used from the grounding kit to the tower. Grounding kits and procedures must comply with current Standards and Guidelines for Communication Sites (R56).

*Horizontal runs of coax cable shall be protected by ice shields and supported every three feet with stainless steel clamps or hangers.

*Coax cable shall enter buildings via weatherproof cable entrance ports or cable mounting plates. Positions will be assigned by the DNCR Site Manager. Ground Clamps will be used on both sides of this connection and will be connected to the site ground system.

*Coax cable runs located inside buildings will utilize existing cable racks or will be supported overhead by hangers.

Power Requirements:

- A. Each site user will be responsible for the cost of installation of separately metered electrical service when such metering is required unless otherwise specified in the lease/use agreement.
- B. The provisions of backup power by DNCR will require approval of the DNCR Site Manager.
- C. Emergency generating equipment or battery backup units shall not be installed without approval of the DNCR Site Manager.
- D. Each new transmitter and equipment cabinet will be connected to a separately fused AC outlet in accordance with current Standards and Guidelines for Communication Sites (R56), NFPA 70: National Electrical Code®, and State Electrical codes.
- E. Under no circumstances will one station be plugged into the accessory outlet of another cabinet.

- F. All electrical installation work shall be in full compliance with current Standards and Guidelines for Communication Sites (R56), NFPA 70: National Electrical Code®, and State Electrical codes.

Administrative Items

- A. A frequency compatibility study must be performed prior to installation; it shall be done by an independent consulting firm, which has been approved by DNCR. The cost of this study is the responsibility of the site user. A subsequent study may be required each time the site user proposes an additional frequency at the site.
- B. The site user shall immediately cease operation if notified by the DNCR that they are causing harmful interference.
- C. The DNCR Site Manager shall be provided with copies of all FCC license applications, current FCC licenses and equipment specifications.
- D. The site user shall make no changes after the initial installation without prior written approval from the DNCR Site Manager.
- E. Equipment shall be maintained in such a manner as to prevent it from becoming a source of interference or a safety hazard.
- F. Equipment shall have an ID tag attached, which shows licensee's name, address, call sign, frequency, tone squelch frequency and telephone number of person or organization responsible for maintenance work. Radio station licenses shall be posted for each transmitting station as required by FCC rules.
- G. Speakers will be turned off except during periods of maintenance work.
- H. Areas in and around the site user's equipment shall be kept clean and neat at all times. In addition, exterior areas including access roads, trails, and parking area shall be kept clean. Trash and unused materials shall be immediately removed from the site and not stored on the premises in any manner.
- I. Smoking, open flame, or welding will not be permitted inside buildings.
- J. Should the site user cause discharge of any Fire Protection System, they will be responsible for all costs associated with recharging the system, cleaning the building and repairing damaged equipment.
- K. If the building has an alarm system installed, the site user will notify designated Alarm Center when entering or leaving building in accordance with posted instructions.
- L. Site access shall be as designated in and subject to restrictions as described in the lease/use agreement. The DNCR will not be responsible for plowing of access roads or trail entrances to the site unless specified in lease/use agreement.
- M. Prior to the signing of any lease, a joint visit of the site will be made by the proposed site user and the DNCR Site Manager. Any additional special technical requirements not covered in this document will be determined at this meeting.

- N. When a lease is terminated for any reason, the site user will remove all equipment including antennas and feed lines within thirty days and will be responsible for any work necessary to return site to its previously existing condition. Should the site user fail to do so, then DNCR will arrange to have work completed and will bill the site user for this work.

EQUIPMENT INVENTORY

<u>Mount Washington</u>	<u>Department of Transportation</u>	<u>603-271-6862</u>
Site	Organization	Contact Phone #

TOWER MOUNTED EQUIPMENT:
(Antenna Make, Model, Feed-line Type)
(Tower Make, Model and height)

LOCATION:
(Mounted Elevation and Bearing on
Structure)

2-each roof-mounted. DB 636 antenna
2-each 12-inch Andrew's hard line

HOUSED EQUIPMENT:
(Make, Model, Serial Number,
Tx/Rx Frequencies) Also List Back-up
Power (Batteries or UPS)

LOCATION – SHELTER:
(Rack or Cabinet Mounted)

1-each 69" cabinet with doors
Houses 2-each Ericsson. Mastr III. radio
Repeaters. Cisco router. and Bosch IP-224

Mastr III 69" cabinet
TX / RX combiner open Rack

Copy of FCC Licenses and ASR # 1-each license attached Call sign KR0247. Loc-3

Dan J. Chene
Signed:

4/4/2022
Date:

SEE Contact List
Address

603-227-0018
Phone Number

SUBMIT TO: Communications Coordinator
Division of Forests and Lands
172 Pembroke Road
Concord, NH 03301



Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: STATE OF NEW HAMPSHIRE, DEPARTMENT
OF TRANSPORTATION, DIVISION OF
OPERATIONS

ATTN: COMMUNICATIONS SUPERVISOR
STATE OF NEW HAMPSHIRE, DEPARTMENT OF
TRANSPORTATION, DIVISION OF OPERATIONS
SEVEN HAZEN DRIVE
PO BOX 483
CONCORD, NH 03302-0483

Call Sign KRO247	File Number 0009666223
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0004903712

Grant Date	Effective Date	Expiration Date	Print Date
11-04-2014	08-19-2021	01-03-2025	08-19-2021

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: HOLDEN HILL
City: DIXVILLE County: COOS State: NH
Lat (NAD83): 44-56-50.2 N Long (NAD83): 071-20-32.3 W ASR No.: N/A Ground Elev: 806.0
Location 1 Special Condition
00000458.62500000 - NHIA NOTING SYSTEM IN OPERATION FOR SOME TIME WITH NO REPORTS OF
HARMFUL INTERFERENCE.
- Loc. 2** Address: PROSPECT MOUNTAIN
City: LANCASTER County: COOS State: NH
Lat (NAD83): 44-27-10.2 N Long (NAD83): 071-34-18.3 W ASR No.: N/A Ground Elev: 622.0
- Loc. 3** Address: MOUNT WASHINGTON
City: SARGENTS PURCHASE County: COOS State: NH
Lat (NAD83): 44-16-13.2 N Long (NAD83): 071-18-10.3 W ASR No.: N/A Ground Elev: 1917.0
- Loc. 4** Address: CANNON MOUNTAIN
City: FRANCONIA County: GRAFTON State: NH
Lat (NAD83): 44-09-25.2 N Long (NAD83): 071-41-54.3 W ASR No.: N/A Ground Elev: 1244.0
- Loc. 7** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: NH

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: STATE OF NEW HAMPSHIRE, DEPARTMENT

Call Sign: KRO247

File Number: 0009666223

Print Date: 08-19-2021

Fixed Location Address or Mobile Area of Operation

Loc. 8 Area of operation
Operating within a 80.0 km radius around fixed location 1
Loc. 9 Area of operation
Operating within a 80.0 km radius around fixed location 2
Loc. 10 Area of operation
Operating within a 80.0 km radius around fixed location 3
Loc. 11 Area of operation
Operating within a 80.0 km radius around fixed location 4

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.62500000	FB2	1		11K0F3E 11K3F3E	100.000	210.000	60.0	248.0	
1	1	000453.92500000	FB2	1		11K0F3E	100.000	210.000	60.0	248.0	
1	1	000453.92500000	FB	1		11K0F3E	100.000	210.000	60.0	248.0	
1	1	000453.97500000	FB2	1		11K0F3E	100.000	210.000	60.0	248.0	
1	1	000453.97500000	FB	1		11K0F3E	100.000	210.000	60.0	248.0	
2	1	000453.62500000	FB2	1		11K0F3E 11K3F3E	100.000	360.000	24.0	190.0	
2	1	000458.10000000	FX1	1		11K0F3E 11K3F3E	40.000	100.000	24.0	190.0	
2	1	000458.27500000	FX1	1		11K0F3E 11K3F3E	40.000	100.000	24.0	190.0	
2	1	000458.62500000	FX1	1		11K0F3E 11K3F3E	40.000	100.000	24.0	190.0	
2	1	000458.92500000	FX1	1		11K0F3E 11K3F3E	40.000	100.000	24.0	190.0	
2	1	000458.97500000	FX1	1		11K0F3E 11K3F3E	40.000	100.000	24.0	190.0	
3	1	000453.27500000	FB2	1		11K0F3E 11K3F3E	100.000	180.000	15.0	1121.0	

Licensee Name: STATE OF NEW HAMPSHIRE, DEPARTMENT

Call Sign: KRO247

File Number: 0009666223

Print Date: 08-19-2021

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000453.92500000	FB	1		11K0F3E	100.000	180.000	15.0	1121.0	
3	1	000453.92500000	FB2	1		11K0F3E	100.000	180.000	15.0	1121.0	
3	1	000453.97500000	FB2	1		11K0F3E	100.000	180.000	15.0	1121.0	
3	1	000453.97500000	FB	1		11K0F3E	100.000	180.000	15.0	1121.0	
4	1	000453.10000000	FB2	1		11K0F3E 11K3F3E	100.000	160.000	30.0	624.0	
4	1	000453.50000000	FB2	1		11K0F3E 11K3F3E	100.000	160.000	30.0	624.0	
4	1	000453.92500000	FB	1		11K0F3E	100.000	160.000	30.0	624.0	
4	1	000453.92500000	FB2	1		11K0F3E	100.000	160.000	30.0	624.0	
4	1	000453.97500000	FB	1		11K0F3E 11K3F3E	100.000	160.000	30.0	624.0	
4	1	000453.97500000	FB2	1		11K0F3E 11K3F3E	100.000	160.000	30.0	624.0	
7	1	000458.10000000	FX1	25		11K0F3E 11K3F3E	40.000	5.000			
7	1	000458.27500000	FX1	25		11K0F3E 11K3F3E	40.000	5.000			
7	1	000458.50000000	FX1	25		11K0F3E 11K3F3E	40.000	5.000			
7	1	000458.62500000	FX1	25		11K0F3E 11K3F3E	40.000	5.000			
7	1	000458.92500000	FX1	25		11K0F3E 11K3F3E	40.000	5.000			
7	1	000458.97500000	FX1	25		11K0F3E 11K3F3E	40.000	5.000			
8	1	000453.62500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			

Licensee Name: STATE OF NEW HAMPSHIRE, DEPARTMENT

Call Sign: KRO247

File Number: 0009666223

Print Date: 08-19-2021

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
8	1	000458.62500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			
9	1	000453.97500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			
9	1	000458.97500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			
10	1	000453.92500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			
10	1	000458.92500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			
11	1	000453.27500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			
11	1	000458.27500000	MO	700		11K0F3E 11K3F3E	100.000	100.000			

Control Points

Control Pt. No. 2

Address: District 1, 641 Main Street

City: Lancaster County: COOS State: NH Telephone Number: (603)788-4641

Control Pt. No. 4

Address: 110 Smoky Bear Blvd.

City: Concord County: MERRIMACK State: NH Telephone Number: (603)271-6862

Associated Call Signs

<NA>

Waivers/Conditions:

NONE