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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

August 31, 2020

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

REQUESTED ACTION

1. Pursuant to RSA 227-H:9, authorize the Department of Natural and Cultural Resources, Division of Forests and Lands (DNCR) to amend an existing lease with the Massachusetts Institute of Technology, Lincoln Laboratory of the Commonwealth of Massachusetts (MIT) for communications infrastructure in designated areas at Pack Monadnock Mountain in Miller State Park, by exercising a lease renewal option from October 1, 2020 through September 3, 2025, with the option to extend the lease for two additional five year periods, effective upon Governor and Council approval. The original lease was approved by Governor and Council on 1/13/2016, Item # 42.
2. Further authorize DNCR to accept annual rental payment revenue. The annual rental payments include a 3% annual increase detailed in the terms of the Lease Amendment.

Revenue will be posted to 03-035-035-351010-86820000-403073 "Communication Sites Ops", as follows:

Contract Year	Class-Account	Class- Account Title	Annual Rent Amount
2021	008-403073	Agy Income - Mt Top Tower Fund	\$23,369.51
2022	008-403073	Agy Income - Mt Top Tower Fund	\$24,070.60
2023	008-403073	Agy Income - Mt Top Tower Fund	\$24,792.72
2024	008-403073	Agy Income - Mt Top Tower Fund	\$25,536.50
2025	008-403073	Agy Income - Mt Top Tower Fund	\$26,302.60
		Total:	\$124,071.93

EXPLANATION

MIT is a Department of Defense Research and Development Laboratory, that conducts research and development aimed at solutions to problems critical to national security. MIT has been a good tenant at Pack Monadnock Mountain for many years.

The Lease is subject to DNCR's "Policy on Use and Management of DNCR Communication Facilities" attached as Exhibit A and all installed communication equipment shall meet the guidelines set forth by DNCR's "Technical Requirements for the Use of Communication Sites" attached as Exhibit B.

The Attorney General's office has reviewed and approved the Lease as to form, substance, and execution.

Respectfully submitted,

William T. Guinn
Acting Director

Concurred,

Sarah L. Stewart
Commissioner

FIRST LEASE AMENDMENT

Massachusetts Institute of Technology for the Benefit of MIT Lincoln Laboratory
Pack Monadnock Mountain
MILLER STATE PARK
TEMPLE, NEW HAMPSHIRE

<u>CRITICAL DATES / TERM / RENT</u> (for State use only)	
DEFINITION	DATE
Term Effective Date:	October 1, 2020
Billing Commencement Date:	October 1, 2020
Term and Initial Annual Rent: 5 years - \$23,369.51 subject to an annual 3% escalation	

This Lease Amendment (the "Amendment") is by and between the State of New Hampshire acting by and through its Department of Natural and Cultural Resources (the "State") having a mailing address of 172 Pembroke Road, Concord, New Hampshire 03301 and the Massachusetts Institute of Technology, an educational corporation organized under the laws of the Commonwealth of Massachusetts, for the benefit of MIT Lincoln Laboratory, a federally funded research and development center, having its place of business at 244 Wood Street, Lexington, MA 02421-6426 (the "Lessee"). The State and the Lessee together shall be the "Parties".

Whereas, pursuant to the current Lease Agreement dated December 22, 2015 (hereinafter called the "Lease"), for which the original five (5) year lease with three 5-year extensions was approved by Governor and Executive Council on January 13, 2016 as item #42, when the State agreed to lease certain areas within and upon Pack Monadnock Mountain, Miller State Park, Temple, New Hampshire according to the terms and conditions specified in the Lease, and in consideration of payment by the Lessee of certain sums specified therein; and

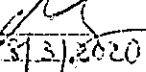
Whereas, the Lessee has given notice in writing to the State of its intent to extend the Lease for another 5-year period with two (2) additional 5-year extension options and the State is agreeable to providing such extension option, subject to the approval of Governor and Executive Council;

NOW THEREFORE, in consideration of the foregoing and the covenants and conditions contained in the Lease as set forth herein, the State and Lessee hereby agree to amend the Lease as follows:

I. SECTION II. ENTRY AND USE OF LEASED PREMISES is hereby amended to read:

The Lessee shall be permitted to enter and use the Leased Premises as a wireless communication site. The Lessee shall not be permitted to use the Leased Premises for any other purpose except by prior written approval of the State. The State shall have the right to request identification of any and all individuals representing the Lessee who seek access to the Property under the terms of the Lease and to deny access to the Property if appropriate identification is not provided.

The State shall be notified forty eight (48) hours before the start of significant exterior work, or planned exterior maintenance, at the Leased Premises, including, without limitation, repaving and cutting down hazard trees. Notification shall be made 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 the State within twenty four (24)

Lessee Initials: 
Date: 8/3/2020

hours. No notification shall be required for any interior work or interior maintenance of the shelter.

Access Notifications should be made via phone to:

Communications Technician
NH Division of Forests and Lands
172 Pembroke Road
Concord NH 03301
Office: 603-271-2214

2. SECTION V. RENT – OTHER CONSIDERATION is hereby amended to read:

Lessee shall pay as consideration for the rights herein granted, an initial Twenty Three Thousand Three Hundred Sixty Nine dollars and Fifty One cents (\$23,369.51) per year, subject to an annual 3% escalator. The first annual payment shall be due on the Billing Commencement Date set forth on the first page of this document.

Lease payment shall be by check made payable to "Treasurer, State of New Hampshire" and delivered to "Business Office, Department of Natural and Cultural Resources, 172 Pembroke Road, Concord, NH 03301" on the Billing Commencement date for this Lease, and Annually thereafter, throughout the term of this Lease.

3. SECTION VI. TERM is hereby amended to read:

The Lessee shall have and hold the Leased Premises for a term of five (5) years, commencing on October 1, 2020 (the "Commencement Date"), and ending on September 30, 2025, unless sooner terminated in accordance with the provisions of this Lease.

The Lease may be extended for two (2) additional five (5) year terms, provided the Lessee has:
1) Given notice in writing to the State of its intent to extend the Lease at least six (6) months prior to the expiration date; and 2) Signed a lease amendment for the new 5 year term subject to a continuation of the rent commensurate with the annual escalator specified in Section V, and Governor and Executive Council approval.

4. SECTION XII. COMMUNICATION SITE POLICY – TECHNICAL REQUIREMENTS is hereby amended to read:

The Lease is granted subject to the State of New Hampshire Department of Natural and Cultural Resources "Policy on Use and Management of DPCR Communication Facilities" adopted November 7, 1989, and last revised in July 2017, a copy of which is attached herewith, made a part hereof, and is marked Exhibit "A".

All communications equipment and appurtenances shall be installed in compliance with 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, a copy of which is attached herewith, made a part hereof, and is marked Exhibit "B".

5. SECTION XIX. NOTICES is hereby amended to read:

Lessee Initials:

Date: 8/3/2020

All notices, demands, requests and other communications required by the Lease shall be in writing and shall be considered properly given if sent by United States registered or certified mail, postage prepaid, to:

- (a) The State:
The State of New Hampshire
Department of Natural and Cultural Resources
172 Pembroke Road
Concord, New Hampshire 03301
Attn: Administrator, Land Management Bureau

or at such other address of the State from time to time may have designated by written notice to the Lessee. Such notice shall be deemed properly given upon the posting in the United States mail.

- (b) The Lessee:
Massachusetts Institute of Technology
Lincoln Laboratory
244 Wood Street
Lexington, MA 02421-6426
David M. Pronchick, Assistant Dept. Head, Contracting Services (or designee)

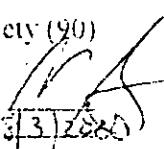
With a copy to:
MIT
Office of the General Counsel
77 Massachusetts Avenue
Building 7-206
Cambridge, Massachusetts 02139

or at such other address as the Lessee from time to time may have designated by written notice to the State. Such notice shall be deemed properly given upon the posting in the United States mail.

6. SECTION XXV. DEFAULT - THE LESSEE'S RIGHT TO CURE - TERMINATION - RESTORATION is hereby amended to read:

In the event there is a default by the Lessee with respect to any of the provisions of the Lease or its obligations under it, including the payment of rent, the State shall give the Lessee written notice of such default. After receipt of such written notice, the Lessee shall have fifteen (15) days in which to cure any monetary default and thirty (30) days in which to cure any non-monetary default, provided the Lessee shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days whose length of time shall be agreed upon by the parties, and the Lessee commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. The State may not maintain any action or effect any remedies for default against the Lessee unless and until the Lessee has failed to cure the same within the time periods provided in this paragraph. The failure of the Lessee to act to cure the default within the specified time periods shall be just cause for termination of the Lease.

The Lessee shall have the unilateral right to terminate the Lease at any time by giving ninety (90) day written notice to the State of the exercise by the Lessee of this option.

Lessee Initials: 

Date: 3/3/2000

The State shall have a unilateral right of termination only in an instance where the continued presence of the Facilities represents a health, safety or operational risk which cannot be reasonably addressed by alternative measures. The State shall provide ninety (90) days notice to Lessee that a termination is necessary due to that risk, unless some shorter time period is deemed reasonably necessary by the State to avoid damage to people, property or equipment. The State shall have an affirmative duty to relocate the Facilities in a suitable alternative area, if available. The Lessee shall not be entitled to any damages as a result of any such termination.

The Lessee, upon termination of the Lease, shall, within sixty (60) days (or ninety (90) days if there are extenuating circumstances, such as, weather conditions, and the Lessee obtains permission from the Director of Forests and Lands) of termination, remove all of its equipment, personal property and all fixtures from the Property and repair any damage caused by its use of the Leased Premises or the removal of its equipment, reasonable wear and tear excepted. If such time for removal causes the Lessee to remain on the Leased Premises after termination of the Lease, the Lessee shall pay rent at then-existing monthly rate or on the existing monthly pro rata basis if based upon a longer payment term, until such time as the removal of the equipment, personal property and all fixtures are completed.

EFFECTIVE DATE OF THE AMENDMENT: This Amendment shall be effective upon its approval by the Governor and Executive Council of the State of New Hampshire. If approval is withheld, this document shall become null and void, with no further obligation or recourse to either party.

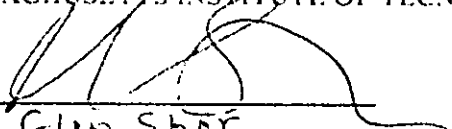
CONTINUANCE OF AGREEMENT: Except as specifically amended and modified by the terms and conditions of this Amendment, the Agreement and the obligations of the parties there under shall remain in full force and effect in accordance with the terms and conditions set forth therein.

[REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK: SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties hereto have set their hands as of the day and year written.

FOR THE LESSEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY


Name: Glen Shor
Title: Vice President for Finance
Duly Authorized

8/3/2020
Date

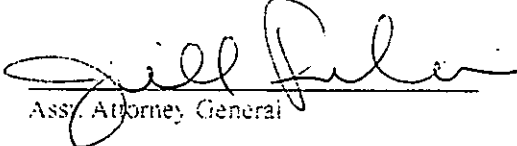
FOR THE STATE:

DEPARTMENT OF NATURAL AND CULTURAL RESOURCES


Sarah L. Stewart
Commissioner

9/3/2020
Date

Approved as to Form, Substance and Execution:


Assy. Attorney General

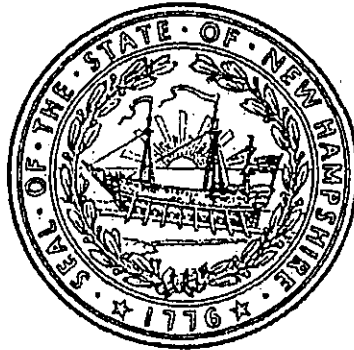
9/4/2020
Date

Approved by the NH Governor and Executive Council:

Item # _____ on _____, 2020

EXHIBIT A

STATE OF NEW HAMPSHIRE
DEPARTMENT OF NATURAL AND CULTURAL RESOURCES



POLICY ON USE AND MANAGEMENT OF
DNCR COMMUNICATION FACILITIES

Adopted Nov. 7 1989

Revised April 15, 1998

Reviewed January 2, 2008

Revised January 1, 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

POLICY ON USE AND MANAGEMENT OF DNCR COMMUNICATIONS FACILITIES

INTRODUCTION

In 1964, the State of New Hampshire, recognizing the future needs for public communication sites and the potential proliferation of antenna towers, microwave dishes, transmitter buildings and other apparatus on New Hampshire's high peaks and ridges, established a policy limiting radio/electronics installations on Department of Natural and Cultural Resources (DNCR) administered land. At that time, the primary concerns were providing sites for future public communication needs and mitigating the visual impact of installations. New communication installations and renewals of existing permits were limited to public agencies. Requests for new communications installations by agencies not supported with public funds were considered only where installations would provide a measure of public service or public safety.

In the 1980's, three additional concerns developed regarding communication facilities on state-owned summits. First was a concern for protecting the aesthetics and natural condition of the State's high peaks and ridges. Second was a concern regarding electronic interference and signal deterioration caused by the growing number of transmission and reception installations. Although there currently isn't a way to quantify the threshold below which a transmission signal becomes unacceptably weakened by neighboring users, each addition of equipment at a site has a negative effect. As the number of installations increased, so had the concern over maintaining signal integrity since most of the communications users at state-owned mountaintops were there for the purposes of public health and safety, law enforcement, national defense, and public information.

The third concern was the potential negative impact to public health from intense communications signals. The mountaintops were originally acquired and maintained for the visiting public and it was important to limit radio frequency radiation to levels safe for continued public use of the area.

In 2012, a review of the policy was prompted by DNCR's growing responsibility for over 167,000 acres of public land and an ever increasing demand to install or expand communications facilities on DNCR lands to enhance public safety and security, and to fulfill the public interest for commercial broadband internet access. In 2013, the Policy was revised to; a) provide new guidelines and processes for establishing new or expanded communication sites in locations beyond just mountaintops; b) allow for commercial communications applications and corresponding lease fees; and c) ensure that impacts from new or expanded communications facilities to the land's traditional uses and purposes were minimized and mitigated.

As the result of a "Internal Control Review" of the Communications Program by the Office of Legislative Budget Assistant – Audit Division, a "Communications Program Manual" was developed. The Manual dovetails with the Policy and established procedures and protocols, including accountability of equipment and sites through a newly acquired database – ComSite,

and the billing and collecting of Program revenues through the State's new billing system . . .
LAWSON/NHFirst.

I. DEFINITIONS:

"Commissioner" shall mean the Commissioner of the Department of Natural and Cultural Resources (DNCR).

"Permit" shall mean any form of agreement, including licenses, special use permits, or leases issued by the Commissioner for use of a DNCR communication site.

"Private user" shall mean any person or business entity, including a non-profit organization, which is not a "public user" or "quasi-public user."

"Public user" shall mean a federal, state, county, or municipal agency or some governmental association thereof.

II. GOAL:

The ultimate goal for state-owned locations used for communications facilities, including mountaintops, is to have such areas cleared of all appurtenances and machinery, with the possible exception of observation platforms. This goal cannot be realized until the technology of electronic communications has advanced to where antennas and other electrical paraphernalia are outmoded. Until that time, the overall management objective for communications sites will be to give priority to transmission sites for communications critical to the public health, safety and welfare, while minimizing the aesthetic and environmental impacts of these communications facilities.

III. POLICY:

It is the policy of the Department of Natural and Cultural Resources to permit, when no other feasible alternative is available, controlled development of state-owned land under its jurisdiction for electronic communications necessary to public health, safety and welfare; and to facilitate, wherever possible, in the consolidation of commercial electronic communication networks across the state.

IV. GUIDELINES AND CONSIDERATIONS:

A. Values to Be Protected: Management of the communications sites on DNCR lands is intended to protect three distinct values deemed essential to the public interest:

1. *Aesthetics/natural condition and public use:* To maintain the natural and scenic character of an area. Communication facilities shall be installed so as to have the least physical disturbance or modification of the natural environment and minimal impact to the public enjoyment of these environments.

2. *Public health, safety and welfare:* To consider communications projects necessary and desirable to maintain or improve the health, safety and welfare interests of the public at large, as well as to reasonably safeguard the health and safety of visitors to communication sites.
 3. *Electronic integrity:* To uphold the non-interference of communications signals and frequencies between communications systems and/or associated electrical devices.
- B. Communication Site Designation: In order to articulate the use of DNCR properties for communications activities, the following site designations are hereby established for the purpose of describing existing assets and limitations that each site category may possess. All current and future sites will be classified by these designations:
1. *Multiple Use Sites ("MU")* may allow for the full range of communication uses, so long as those uses are compatible with site conditions, typical management activities, traditional public use, and deed covenants, if any; and strive to minimize the aesthetic and environmental impacts. MU Sites typically contain electric power from off-site, phone capability, and usually have generator back-up capabilities. Infrastructure specific to communications can be erected at these sites (tower, building, etc.) provided such installations are in compliance with and meet the objectives of the other sections of this policy.
 2. *Limited Use Sites ("LU")* have one or more limitations that prohibit the expansion of a LU Site. Limitations may include, but are not limited to: access issues; protection of special aesthetic or natural site conditions; lack of a power source, telephone, or fiber resources; public health or safety concerns; interference with other communication sites; or incompatibility with other primary uses of a particular site. These sites shall have restrictions placed upon them based upon their limiting factors.
 3. *Restricted Use Sites ("RU")* are restricted communication sites and shall be limited to only those uses that are deemed a critical need for public health, safety or welfare; where the benefits derived from having the communication site outweigh the potential detriments to the values to be protected. Examples of restricted uses include those related to fire and rescue, law enforcement, emergency medical services, and/or emergency management. Such sites shall not be used for commercial activities or "for profit" purposes. Measures shall be taken to ensure that no alternatives sites exist, and that aesthetic and environmental impacts will be minimized or mitigated.
- C. Approved, Designated DNCR Sites: The following specific DNCR sites are hereby designated by the Commissioner as "Communication Sites." The letter designation after each site indicates its current designation.

Belknap Mountain, Belknap Mountain State Forest (MU)

Blue Job Mountain, Blue Job State Forest (MU)
 Cannon Mountain, Franconia Notch State Park (MU)
 Cardigan Mountain, (RU)
 Federal Hill, Federal Hill Fire Tower (LU)
 Hampton Beach State Park, (RU)
 Holden Hill, Coleman State Park (MU)
 Hyland Hill, Hyland Hill State Forest (MU)
 Jordan Hill, Walker State Forest (RU)
 Kearsarge Mountain, Kearsarge Mountain State Forest (MU)
 Magalloway Mountain (RU)
 Milan Hill, Milan Hill State Park (MU)
 Oak Hill, Oak Hill Fire Tower (MU)
 Pack Monadnock Mountain, Miller State Park (MU)
 Pitcher Mountain, Pitcher Mountain Fire Tower (MU)
 Prospect Mountain, Weeks State Park (LU)
 Mt. Sunapee, Mt. Sunapee State Park (MU)
 Wantastiquet Mountain, Wantastiquet Mountain State Forest (MU)
 Warner Hill, Warner Hill Fire Tower (MU).

Development of communications facilities at these sites shall be restricted to specific areas, as determined by the Commissioner.

V. APPLICATION FOR COMMUNICATIONS SITE USE:

A. Application for a communication site use will be filed with the Commissioner, Department of Natural and Cultural Resources and shall include the following information:

1. Demonstrated need for public health and safety, or for the public welfare interests served by commercial-service communications.
2. Complete plans and specifications of the proposed installation including, but not limited to, buildings, towers, power lines, accessory structures, fuel tanks, generators, method(s) of access to the site and access improvements.
3. Detailed specifications including type, frequency, size and proposed location of

receiving and/or transmission unit(s) and antenna(s).

4. Analysis of compatibility with existing facilities and equipment (intermod and structural analysis) and power requirements.
5. Written documentation that the installation meets the current ANSI standards for controlled and uncontrolled human exposure to radio frequency electromagnetic fields. Cumulative effects of the proposed installation together with the existing facilities shall be considered.
6. Power and access availability without major new development.

B. Applications for New Communications site designations will be filed with the Commissioner, Department of Natural and Cultural Resources and shall include the following process.

1. A description of alternative sites considered, including other DNCR-designated communication sites and locations on private property, and the results from an investigation that demonstrates why the alternative sites are not feasible.
2. Compatibility with long-range multiple use plans.
3. Aesthetic compatibility with surrounding environment.
4. Impact on aesthetic/natural and recreational resources, and efforts to minimize or mitigate such impacts.
5. Deed and/or property use restrictions.

Regional and Local Review: In accordance with RSA 674:54 II, all applications for new communication site designations shall be sent to the Board of Selectmen/City Council of the municipality and to the appropriate Regional Planning Commission in which the proposed site is located to provide an opportunity for public hearing(s), subject to the following:

1. DNCR will provide a public notification in a newspaper in general circulation in the area stating that a proposal for a new communication site designation has been sent to the municipality.
2. DNCR will provide written notification to: (1) persons who have interests of record in the site; (2) persons who have written use agreements for the site on file with DNCR; (3) landowners across which the State has deeded or written access rights to the site; and (4) donors of land which contains the site.
3. DNCR personnel and the applicant shall participate in any hearing(s) requested by the municipality or by the Regional Planning Commission.

4. DNCR shall respond in writing to any written comments made by the municipality relative to the application and received within 30 days after the hearing. Responses shall identify any modifications made in response to comments from the municipality or a written explanation as to why the implementation of the comments would be contrary to the proposed public project.
5. Upon completion of the processes described in this section, applications for a new communication site shall be submitted to Governor and Executive Council for final approval.
6. Applications from public and private users shall be submitted to the local governing body by the applicant for approval under the municipality's Site Plan Review Regulation.
7. Application(s) for use permits or leases for new communication sites shall follow the same procedures as existing designated sites.
8. Application(s) for a new site, or modification or expansion of an existing site may be reviewed by the Communication Site Advisory Committee, as deemed necessary by the Commissioner.
9. Once a site has been officially designated, new users on the site can be processed by the DNCR communications office without review by the Advisory Committee, providing the new user doesn't significantly modify or alter the site, such as but not limited to adding buildings, extending the tower height or other buildings or structures, in which case it shall be reviewed by the Advisory Committee.

VI. CONSOLIDATION:

- A. Towers and buildings: on each communication site will be consolidated and shared by site users in a manner striving for the following goals:
 1. A single, expandable, low profile transmitter building serviced by a single, non-overhead utility line.
 2. As few multiple-use, broadband antennae as are technically feasible, affixed to a single tower. Such consolidation will be planned on a site-by-site basis according to building design, cable and power layout, and vegetation distribution; and accomplished through cooperative funding among users, contributions, or bonding.
 3. Additions to, and modifications or relocation of, existing structures and equipment shall be compatible with the designated site plan for consolidation of facilities through shared use.

VII. ADVISORY COMMITTEE:

- A. Communication Site Advisory Committee is established as an adjunct to the Commissioner's office. Technical advisors may serve as deemed necessary or desirable by the Committee. Committee membership shall include the following individuals or their designee:

Director, Division of Forests and Lands
Director, Division of Parks and Recreation
Director, Division of State Police
Executive Director, New Hampshire Fish & Game Department
President/Forester, Society for the Protection of New Hampshire Forests
Executive Director, Local Government Center

- B. Purpose: The Advisory Committee is established for the purpose of advising the Commissioner on the following matters:

1. Designation of new communication sites, or modification to tower height, building size and/or expansion of existing sites if deemed necessary by the Commissioner.
2. Developing Plans for consolidation of facilities.
3. Policies, rules, and regulations for communication site management may be reviewed periodically
4. Recommended changes to policy, rules and regulations for communications site management may be made by Advisory Committee, Communications Site Committee, Communications Section Chief, or the Department and approved by the Commissioner.

VIII. MODIFICATION OR EXPANSION OF EXISTING SITES:

- A. New or Expansion Proposals: Proposals for new or enlarged installations at designated communication sites, which are demonstrated to be in the overall interest of public health or safety will be given the highest priority. New users may be permitted subject to the following:

1. Can be accomplished without compromising the values to be protected under Section IV. A, and
2. Would result in a net improvement in onsite facility aesthetics, primarily through consolidation, or
3. Would result in enhanced public recreation access or opportunities, or
4. Would provide the tower or building space needed to accommodate "public users," as determined by the Commissioner.

IX. INTERFERENCE:

- A. New Installations: New installations/users shall not interfere with existing installations, users and functions. Where irreconcilable conflicts arise between "public user," and "private user" installations over electronic interference, space, power supply, or location, the "public" or "quasi-public" user shall take precedence and displace the "private user." Order of displacement is: 1) private users; 2) quasi-public users engaged in low power broadcasting; 3) other quasi-public users. Within each category, newest installations shall be displaced first.
- B. Electronic Interference: In the case of a complaint of electronic interference or other conflicts created by a new installation, it shall be the responsibility of the proponent of the new installation to submit plans for resolving the complaint or potential problem. The plans shall be consistent with the site consolidation effort. The complainant and new installation proponent shall attempt to resolve the matter. Unresolved issues and the proponent's plans shall be submitted to the Communication Office within 10 working days of the complaint for review and recommendation for action by the Commissioner.

X. OTHER INSTALLATION REQUIREMENTS:

- A. Additional considerations shall include:
1. Communication tower(s) on DNCR communication sites shall be the minimum height necessary to meet technical requirements of the equipment installed and the service area, but under no circumstances shall tower structure exceed 180 feet in height.
 2. All DNCR communication sites shall meet the current American National Standards Institute (ANSI) requirements for controlled and uncontrolled human exposure to radio frequency electromagnetic fields.
 3. Permits/leases for site use are not transferable and facilities (buildings, tower and equipment) may not be sub-leased.
 4. Requests for changes or modification of a permitted installation shall be submitted in writing for approval by the Commissioner.
 5. Site users shall comply with all applicable federal, state and local laws, ordinances and rules.
 6. All equipment installations shall be accomplished in compliance with the latest edition of the "State of New Hampshire Department of Natural and Cultural Resources Technical Requirements For use of Communication Sites," and all grounding of equipment will meet Motorola's R-56 requirements.
 7. Intermod Study is required of all new prospective users or a change of frequency by a current user.

8. Structural analysis may be required by new users and upgrades by current users.
9. An RF Study is required by all new users at all sites. Sites that are manned by volunteers or paid personnel require the RF Study to specifically reference and address the effects and risk to personnel from RF exposure.

XI. TENANT CATEGORIES (basis for annual rent):

The following table depicts the tenant categories and provides the degree of annual rent to be charged in order to occupy a DNCR communication site:

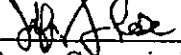
CATEGORY	ANNUAL RENT BASIS
NH State Entity	Beneficial Services (No Charge Tenants as of 1/1/2013)
Federal Entity	Administrative Fee (\$1,000 as of 1/1/2013)
Government/Quasi-Government, Municipalities, County, Other State	Administrative Fee (\$1,000 as of 1/1/2013)
Commercial	Fair Market Rent
Other	Fair Market Rent

XII. FEES:

- A. Fair Market Value Rent: All new or renewed non-state tenant contracts (leases, permits, licenses) shall be assessed an annual fair market value rent (the Market Rent) or annual administrative fee(the Administrative Fee: based on beneficial services arrangements and/or other considerations) for each communications site, which shall be set by the Commissioner.
 1. Items to be considered in determining the Market Rent or Administrative Fee will include:
 - Administration costs to the state.
 - User classification (public, quasi-public, private) and type of installation.
 - Prorated share of facilities maintenance.
 - Inventory of the equipment installed at the site.
 - Benefits accruing to the state as a result of joint installation.
 - Costs associated with installations at alternative locations on private property.
 - Market Rent values on comparable private communications sites.
 - Potential impacts to existing state park or state forest operations.
 - Public safety and/or quality of life considerations.
 2. All communication installations on DNCR lands owned by or leased to non-public tenants shall be subject to local taxes, payable by the tenant.

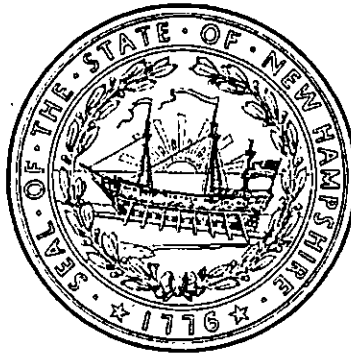
XIII. AMENDMENTS:

The Policy may be amended from time to time to serve the public interest upon recommendation of the Communication Site Advisory Committee and approval by the Commissioner.

Approved: 
Jeffrey. J Rose, Commissioner
Department of Natural and Cultural Resources

Date: 7/27/17

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

Mt. Pack Monadnock
Site

MIT Lincoln Laboratory
Organization

Edward Bucher
Contact Phone # 781-981-7613

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

LOCATION:
(Mounted Elevation and Bearing on
Structure)

24" Dish Quinstar model QRC-26024 K-band	Mounted on east end of building az:130 deg, el: -0.5 deg
24" Dish Quinstar model 46524 Ka-band	Same as above
24" Dish HXI Renaissance Inc	Same as above

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

LOCATION - SHELTER:
(Rack or Cabinet Mounted)

Aeroflex FS5000 Synthesizer s/n 195

K-band 17.5 - 21.5 GHz CW, 100 MHz steps 10 milliwatts max

Ka-band 32.5 - 36.5 GHz CW, 100 MHz steps 10 milliwatts max

V/W band 71-76 GHz and 81-86 GHz CW, 400 MHz steps 2 milliwatts max

These systems are part of a propagation measurement system which can step across these bands in order to measure scintillation, fading and polarization changes due to the atmosphere. The signals are received 26 miles away at the Westford radio telescope. Measurements are made from time to time, depending upon weather conditions. All transmitters are very low power and are bandpass filtered and meet FCC specs regarding spurious and harmonic emissions.

Copy of FCC Licenses and ARS # NTIA License in process

Signed: Mike Seal

Date: 10/27/15

Address: 244 Wood St, Lexington, MA 02420

Phone Number: 781-981-7623

SUBMIT TO: Justin Bellen
Division of Forests and Lands
PO Box 1856
Concord, NH 03301-1856

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CERTIFICATE OF THE SECRETARY

I, Suzanne L. Glassburn, the duly elected Secretary of the Corporation of the Massachusetts Institute of Technology, a charitable corporation chartered and existing under the laws of the Commonwealth of Massachusetts (the "Institute"), DO HEREBY CERTIFY that:

1. On September 5, 2007, the Executive Committee of the MIT Corporation adopted the following resolution:

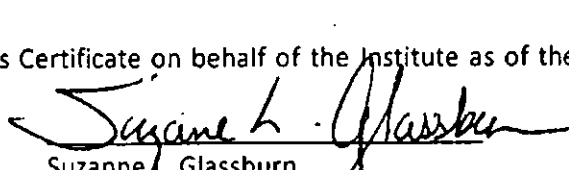
Voted: That, effective on and after September 6, 2007, the individuals from time to time holding the following positions at the Institute are, and each of them acting singly, is, hereby authorized to sign in the name and on behalf of the Institute any and all contracts, bonds, and other agreements and documents which any such person acting in such position deems advisable and in the interests of the Institute:

- Chair of the Corporation
- President
- Executive Vice President and Treasurer
- Vice President and General Counsel
- Vice President for Finance
- Director, Office of Sponsored Programs

that any action taken on or after September 6, 2007 within the scope of the authority granted by this vote by any person holding any of the above-listed positions is hereby ratified as authorized and that the signing and delivery of any such document in the name and on behalf of the Institute by any person holding any of the above-listed positions in order to carry out the purposes of this vote shall be conclusive as to the authority of the person so acting.

2. Glen Shor is the duly appointed and acting Vice President for Finance of the Institute.
3. The resolution above has not been amended or repealed and remains in full force and effect as the date of this Certificate. This authority remains valid for thirty (30) days from the date of this Certificate. It is understood that the State of New Hampshire will rely on this Certificate as evidence that Glen Shor currently occupies the position of Vice President for Finance and that he has full authority to bind the Institute.

IN WITNESS WHEREOF, I have executed this Certificate on behalf of the Institute as of the 14th day of August, 2020.


Suzanne L. Glassburn
Secretary of the Corporation

COMMONWEALTH OF MASSACHUSETTS

Essex ssAugust 11, 2020

On this 11th day of August, 2020, before me, the undersigned notary public, Suzanne L. Glassburn personally appeared, proved to me through satisfactory evidence of identification, which were personal knowledge and affidavit, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as Secretary of the Corporation of the Massachusetts Institute of Technology, a charitable corporation. This document was notarized remotely utilizing electronic video conferencing in real time pursuant to Chapter 71 of the Acts of 2020 by an attorney licensed to practice law in the commonwealth.



(official signature and seal of notary public)

Printed name of notary: Regina DuganBBO#: 650672



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
09/08/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER MARSH USA, INC. 99 HIGH STREET BOSTON, MA 02110	CONTACT NAME:
	PHONE (A/C No. Ext.): FAX (A/C No.):
INSURED Massachusetts Institute of Technology 77 Massachusetts Avenue, NE18-901 Cambridge, MA 02142	E-MAIL ADDRESS:
	INSURER(S) AFFORDING COVERAGE NAIC #
CN103174056-MIT-UMB-19-20	INSURER A: United Educators Insurance 10020
	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:
	INSURER F:

COVERAGES **CERTIFICATE NUMBER:** NYC-010944621-03 **REVISION NUMBER:** 10

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY						
	<input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR						EACH OCCURRENCE \$
							DAMAGE TO RENTED PREMISES (Ea occurrence) \$
							MED EXP (Any one person) \$
							PERSONAL & ADV INJURY \$
							GENERAL AGGREGATE \$
							PRODUCTS - COMP/OP AGG \$
							\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> OWNED AUTOS ONLY		<input type="checkbox"/> SCHEDULED AUTOS				BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS ONLY		<input type="checkbox"/> NON-OWNED AUTOS ONLY				PROPERTY DAMAGE (Per accident) \$
							\$
A	UMBRELLA LIAB			Z77-92U	11/01/2019	11/01/2020	EACH OCCURRENCE \$ 2,500,000
	<input checked="" type="checkbox"/> EXCESS LIAB						AGGREGATE \$ 2,500,000
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 2,500,000						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/>
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	N/A				E.L. EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

*****MIT SELF INSURES THE FIRST 2.5 MILLION IN LIABILITY*****
Protection and Indemnity Coverage Scheduled on the GLX policy listed above
Additional Insured Endorsement: GLX 06-2008

RE: Massachusetts Institute of Technology for the Benefit of MIT Lincoln Laboratory - Pack Monadnock Mountain

The State of New Hampshire is an Additional Insured as respects policy referenced above per endorsement GLX 06-2008 pursuant to and subject to the policy's terms, definitions, conditions and exclusions as required by written contract.

CERTIFICATE HOLDER

State of New Hampshire
Department of Natural and Cultural Resources
172 Pembroke Road
Concord, NH 03301

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.
Yevgeniya Muyamina *Yevgeniya Muyamina*



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
9/2/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER Arthur J. Gallagher Risk Management Services, Inc. 2850 Golf Road Rolling Meadows IL 60008		CONTACT NAME: Christina Segreti PHONE (A/C, No., Ext): 630-773-3800 FAX (A/C, No): 630-285-4062 E-MAIL: Christina_Segreti@aig.com ADDRESS: Christina Segreti@aig.com	
INSURED Massachusetts Institute of Technology 77 Massachusetts Avenue Bldg. NE 18-901 Cambridge MA 02139		INSURER(S) AFFORDING COVERAGE INSURER A : Safety National Casualty Corporation INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :	
MASSINS-02		NAIC # 15105	

COVERAGES

CERTIFICATE NUMBER: 984119337

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			CAS4051872	11/1/2019	11/1/2020	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE AGGREGATE
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/>	N/A	SP 4061509	11/1/2019	11/1/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: Massachusetts Institute of Technology for the Benefit of MIT Lincoln Laboratory - Pack Monadnock Mountain

CERTIFICATE HOLDER

CANCELLATION

The State of New Hampshire
Department of Natural and Cultural Resources
172 Pembroke Road
Concord NH 03301

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

2015

Agreement



STATE OF NEW HAMPSHIRE
DEPARTMENT of RESOURCES and ECONOMIC DEVELOPMENT
DIVISION OF FORESTS AND LANDS
172 Pembroke Road P.O. Box 1856 Concord, New Hampshire 03302-1856

603-271-2214

FAX: 603-271-6488

www.nhdf.org

Her Excellency, Governor Margaret Wood Hassan
And the Honorable Executive Council
State House
Concord, New Hampshire 03301

December 14, 2015

REQUESTED ACTION

- 1) Pursuant to RSA 227-H:9, authorize the Department of Resources and Economic Development, Division of Forests and Lands (DRED) to enter a **RETROACTIVE** Lease Agreement (Lease) with Massachusetts Institute of Technology, Lincoln Laboratory of the Commonwealth of Massachusetts (MIT) for building, equipment and antenna space in a designated area at Pack Monadnock Mountain located within Miller State Park. This renewed Lease is for an initial 5-year period effective October 1, 2015 through September 30, 2020, with the option to renew for three (3) additional 5-year periods subject to Governor and Executive Council approval.
- 2) Further authorize DRED to accept annual rental payments of \$20,158.74 for 2015, \$20,763.50 for 2016, \$21,386.41 for 2017, \$22,028.00 for 2018, and \$22,688.84 for 2019 amounting to \$107,025.49 in revenue over the 5 year period of the lease. The rental fees are based on a 3% yearly increase detailed in the terms of the Lease. The rental payments will be deposited into accounting unit #03-35-35-351010-86820000 "Tower Fund".

EXPLANATION

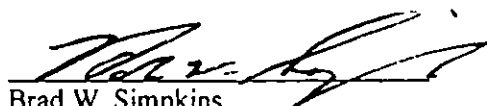
MIT is a Department of Defense Research and Development Laboratory, that conducts research and development aimed at solutions to problems critical to national security. MIT had a 1995 lease that expired at the end of September 2015. Lease negotiations began in March, 2015. The delay in processing the Lease was primarily due to MIT review and desire to wait for Federal funding to be approved. For this reason, we respectfully request retroactive approval of this item.

The Leases are subject to the "State of New Hampshire, Department of Resources and Economic Development Policy on Use and Management of Mountaintops for Communications Facilities". They also require the communications equipment to meet the guidelines set forth by the "State of New Hampshire, Department of Resources and Economic Development Technical Requirements for the Use of Communication Sites."

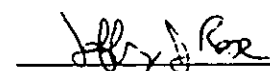
The lease has been approved by the Office of the Attorney General as to form, substance and execution.

Respectfully submitted,

Concurred,


Brad W. Simpkins
Director




Jeffrey J. Rose
Commissioner

LEASE AGREEMENT

Massachusetts Institute of Technology for the Benefit of MIT Lincoln Laboratory
Pack Monadnock Mountain
MILLER STATE PARK
TEMPLE, NEW HAMPSHIRE

THIS LEASE AGREEMENT (the "Lease"), is made and entered into on this 22nd day of December 2015, by and between the State of New Hampshire acting through its Department of Resources and Economic Development, having a mailing address of 172 Pembroke Road, Concord, New Hampshire 03301 (the "State"), under authority of RSA 227-H:9, and Massachusetts Institute of Technology, an educational corporation organized under the laws of the Commonwealth of Massachusetts, for the benefit of MIT Lincoln Laboratory, a federally funded research and development center, having its place of business at 244 Wood Street, Lexington, MA 02420-9108 (the "Lessee"). The State and the Lessee together shall be the "Parties".

PURPOSE: The purpose of the Lease is to provide for the use and possession by the Lessee of certain areas within and upon the real property and improvements thereon (the "Property") known as Pack Monadnock Mountain, located in Miller State Park, according to the terms and conditions set forth below.

-WITNESSETH THAT-

I. LEASED PREMISES

The State, for and in consideration of the covenants and agreements hereinafter contained and made on the part of the Lessee, does hereby grant, demise and lease to the Lessee:

An area of land on Pack Monadnock Mountain, Miller State Park, Temple, New Hampshire for use as a radio link to other facilities of the State and as a test site for evaluating various types of communications, consisting of approximately $\frac{1}{2}$ acre situated on the westerly side of Miller Park Road as presently occupied and used by the Lessee and is more particularly described as follows: On the north by other land of the State approximately 250 feet, on the west by other land of the State approximately 300 feet, on the south and east by Miller Park Road.

The above described land and rights shall hereinafter be called the "Leased Premises." The Parties acknowledge that the Leased Premises are the same Premises that were previously leased to the Lessee by the State pursuant to that certain Lease Agreement dated May 25, 1995, as amended by Supplement No. 1 to the Lease dated April 27, 2006; Supplement No. 2 to the Lease dated August 20, 2007; Supplement No. 3 to the Lease dated September 24, 2009; Supplement No. 4 to the Lease dated July 5, 2012; and Supplement No. 5 to the Lease dated August 20, 2013 (as amended, the "Original Lease").

No additional facilities shall be allowed without prior written permission of the State.

II. ENTRY AND USE OF LEASED PREMISES

The Lessee shall be permitted to enter and use the Leased Premises as a wireless communication site. The Lessee shall not be permitted to use the Leased Premises for any other purpose except by prior written approval of the State. The State shall have the right to request identification of any and all individuals representing the Lessee who seek access to the Property under the terms of the Lease and to deny access to the Property by certain individuals identified, if necessary.

III. AUTHORIZED FACILITIES

The Lessee is authorized to have the following facilities on the Property, which the Parties acknowledge are already on the Leased Premises pursuant to the Original Lease:

- A removable shelter with a maximum height of 11 feet from ground floor, to be installed in and behind the existing chain link fence area, totaling approximately 1000 square feet of interior floor space.
- Electric toilet(s) (two maximum) inside the shelter
- One 6 foot diameter dish antenna located within the shelter. (17.7 – 21.2 GHz band)

Together with such appurtenant and accessory equipment located within the shelter as required to accomplish the permitted use.

No additional facilities shall be allowed without written permission of the State, which shall not be unreasonably withheld or delayed.

IV. ACCESS LIMITATION

Access to the Leased Premises by vehicle is over Miller Park Road. Miller Park Road, is not and shall not be winter maintained (i.e. no plowing, sanding or salting) and is closed to wheeled vehicle use from the gate at the lower parking lot to the upper parking lot when the road is snow covered, however snowmobile use is allowed under adequate snow conditions. Adequate snow cover is defined as that quantity and quality of snow that will allow safe travel without damage to the road, hiking trail or the forest environment.

The Lessee will be held responsible for damage to State land resulting from improper motorized access to the Leased Premises by the Lessee, or its agents.

V. RENT - OTHER CONSIDERATION

The Lease shall be effective as of the date of execution by both Parties, provided, however, the initial term shall be for five (5) years and shall commence on the Commencement Date (as hereinafter defined) at which time rental payments shall commence and be due at a total annual rental of Twenty Thousand, One Hundred, Fifty Eight and 74/100 Dollars (\$20,158.74), subject to a Three Percent (3%) Annual Escalator, to be paid annually on the first day of October, in advance, to the State or to such other person, firm or place as the State may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date by notice given in accordance with Section XIX below. The Lease shall commence on the first day of October 1, 2015 (the "Commencement Date"). The State and the Lessee acknowledge and agree that initial rental payment(s) shall not actually be sent by the Lessee until thirty (30) days after the Commencement Date. By way of illustration of the preceding sentence, if the Commencement Date is October 1, the Lessee shall send to the State the rental payments, by November 1. On every Commencement Date, including throughout any annual renewal, the annual rent shall increase by three percent (3%).

If the Lease is renewed for successive 5-year term(s) pursuant to the provisions of the Lease herein, on every anniversary of the Commencement Date, the renewal term rent shall increase by three percent (3%) from the prior year's annual rental amount.

Rent payment shall be by check made payable to "Treasurer, State of New Hampshire," delivered to Business Office, Department of Resources and Economic Development, 172 Pembroke Road, Concord, NH 03301, beginning on the Commencement Date (as described above), and annually thereafter, throughout the term of the Lease. Upon agreement of the parties, the Lessee may pay rent by electronic funds transfer and in such event, the State agrees to provide to the Lessee bank routing information for such purpose upon request of the Lessee.

VI. TERM

Subject to the foregoing limited access and use license, the Lessee shall have and hold the Leased Premises for a term of five (5) years, commencing on Commencement Date and ending on the fifth (5th) anniversary of such date, unless sooner terminated in accordance with the provisions hereof.

The Lease may be extended for three (3) additional five (5) year terms, provided the Lessee has given notice in writing to the State of its intent to extend the Lease at least six (6) months prior to the expiration date of each term, subject to a review and renegotiation, if necessary to stay current with the fair market value, of the fee paid for consideration and the three percent (3%) annual escalator fee. Pursuant to NH RSA 227-H:9, Governor and Council approval shall be required for each five year (5) term extension.

VII. TAXES

The Lessee shall pay, in addition to any other payments provided hereunder, all taxes and all fees, assessments and other costs or expenses now or hereafter imposed by any government authority, directly in connection with the Lessee's equipment or use of the Leased Premises. In addition, the Lessee shall pay that portion, if any, of the personal property taxes or other taxes directly attributable to the Lessee's equipment. The Lessee shall pay any increase in real estate taxes levied against the Leased Premises and the Lessee's equipment directly attributable to the Lessee's use and occupancy of the Lease Premises. Pursuant to the application of RSA 72:23 I, which provides for taxation of certain State properties used or occupied by persons or entities other than the State.

The Lessee shall make payment of such taxes, fees, and assessments to the State or such government authority as has invoiced taxes, fees, and assessments, within thirty (30) days of the date of invoice. Failure of the Lessee to pay the duly assessed real estate and/or personal property taxes, fees and assessments when due shall be cause to terminate the Lease by the State provided written notice has been given the Lessee by the party assessing the tax and sixty (60) days have elapsed from the date of the receipt of notice by the Lessee and no payment has been made.

VIII. RIGHT TO LEASE - COMPLIANCE WITH LAW

The State represents that it has the full right, title, interest, power and authority to enter into the Lease and to let the Leased Premises for the term herein granted. The Lessee shall comply with all applicable federal and state laws, rules and regulations in connection with the operation of the Lease.

IX. QUIET ENJOYMENT-INSPECTION

The Lessee, upon the payment of the rent herein provided, and upon the performance of all of the terms of the Lease, shall peaceably and quietly have, hold and enjoy the Leased Premises without any hindrance, disturbance, interference or interruption from the State or from any persons claiming by, through and under the State.

Provided however, the Lessee agrees that the State or any of its duly authorized agents may with reasonable notice to the Lessee, inspect any and all the Lessee Property located on the Leased Premises during usual business hours; and

The Lessee understands and hereby accepts that other leasehold tenants occupy the Property which may result in possible inconvenience when another lessee is doing work coincidentally onsite.

X. MUTUAL NON-INTERFERENCE - CONFLICTS WITH RECREATIONAL USERS

The Lessee agrees to install radio equipment of the type and frequency which will not cause measurable interference to the State, other lessees of the premises or neighboring landowners. In the event the equipment of the Lessee causes such interference, and after the State has notified the Lessee of such interference, the Lessee will take all steps necessary to correct and eliminate the interference. Continued interference problems caused by the equipment of the Lessee shall be just cause for termination of the Lease subject to the provisions of Section XXV.

The State agrees that the State and any other tenants of the Property who currently have or in the future take possession of the Property will be permitted to install only such radio equipment that is of the type and frequency which will not cause measurable interference to the Lessee. In the event any such equipment of the State or of another tenant at the Property causes such interference, the State will see that the interfering party takes all steps necessary to correct and eliminate the interference.

The State covenants and agrees that it will not permit or allow the erection, installation or construction of any buildings, or structures, on any portion of its remaining land at the Property that will shield or obstruct or otherwise interfere with the reception or transmitting of radio signals over the paths established by the Lessee; however, the Lessee agrees to comply with all reasonable requests in writing of the State or any of its agents as to particular situations which may arise to permit the erection, installation or construction of such structures. In no event however, shall the Lessee's compliance with such requests relieve the State of its obligation to see that the State or any other interfering party take all steps necessary to correct and eliminate any interference caused thereby. In addition, all reasonable precautions will be taken by the Lessee to ensure that there will be no conflict with the State's use, which can include the public's use of the Property including, but not limited to, obstructing access to the summit or viewpoints from the summit.

XI. ASSIGNMENT/SUBLEASE

The Lessee may not assign or transfer its rights under the Lease or sublease any portion of the Leased Premises to any third party without the express written permission of the State.

However, the interest of the Lessee under the Lease may be freely assigned in the following cases: (1) in connection with the transfer of the FCC authorization to operate a wireless communication system, so that the name and identity of the holder of the interest of the Lessee hereunder can be consistent with the name and identity of the holder of said FCC authorization; and (2) to principals, affiliates, subsidiaries of its principals, in each case of the Lessee, or to any entity which acquires all or substantially all of the assets of the Lessee in the New Hampshire market by reason of a merger, acquisition or other business reorganization.

XII. COMMUNICATION SITE POLICY-TECHNICAL REQUIREMENTS

The Lease is granted subject to the State of New Hampshire Department of Resources and Economic Development "Policy on Use and Management of Mountaintops for Communication Facilities" adopted November 7, 1989, and revised on January 1, 2014, a copy of which is attached herewith, made a part hereof, and is marked Exhibit "A".

All communications equipment and appurtenances shall be installed in compliance with the "State of New Hampshire Department of Resources and Economic Development Technical Requirements for Use of Communication Sites" adopted June 30, 1995, and revised in February, 2014, a copy of which is attached herewith, made a part hereof, and is marked Exhibit "B".

XIII. INDEMNIFICATION-LIABILITY INSURANCE

The Lessee shall indemnify and save the State harmless from any and all costs, claims, loss, damage, damages, liability, demands and suits of any kind, by whomever brought, that may in whole or in part arise from or be caused by:

1. The operation, maintenance, use or occupation of the herein Leased Premises by the Lessee; or
2. The acts, omissions or gross negligence of the Lessee, its agents, officers, employees or permittees; or
3. The failure of the Lessee to observe and abide by any of the terms or conditions of the Lease or any applicable law, ordinance, rule, or regulation. The obligation of the Lessee to so relieve the State shall continue during any period of occupancy or of holding over by the Lessee, its agents, officers, employees or permittees, beyond the expiration of other termination of the Lease.

However, nothing in this paragraph shall require the Lessee to indemnify the State against the willful or negligent actions by the State.

The Lessee shall, during the full term of the Lease, at the expense of the Lessee, carry commercial general liability insurance providing either combined single limit of not less than two Million Dollars (\$2,000,000) or not less than Five Hundred Thousand Dollars (\$500,000) per person and Two Million Dollars (\$2,000,000) per occurrence which shall protect both the State and the Lessee against all claims for personal injury, death, and property damage and certificates thereof shall be delivered to the State within ten (10) days after the date of execution of the Lease, and thereafter at least thirty (30) days prior to expiration of the effective policy. The Lessee shall name the State as an additional insured on said insurance policy.

Notwithstanding anything in this Section XIII to the contrary, for so long as (x) Massachusetts Institute of Technology is the lessee under this Lease and (y) no event of default exists: (i) All insurance required to be maintained by Lessee hereunder may be in the form of blanket policies, so called, insuring the Leased Premises as well as other locations leased by Lessee, (ii) Lessee may self-insure and shall not be required to maintain the insurance described above; provided, however, that (a) the foregoing shall not relieve Lessee from any of Lessee's other obligations under this Section XIII, and (b) Lessee shall be liable as a self-insurer for the same coverage and

the same amount of insurance as would Lessee's insurer if Lessee had maintained the insurance described in this paragraph.

XIV. RISK OF LOSS - FIRE - CASUALTY

All property of every kind installed by the Lessee on the Leased Premises shall be at the sole risk of the Lessee and the State shall not be liable to the Lessee or any other person for any injury, loss, damage, or inconvenience occasioned by any cause whatsoever to the installed property. The Lessee shall be responsible for maintaining appropriate property insurance for its interest in the Leased Premises and property located thereon.

Should the existing Equipment Building on the Property be substantially damaged by fire, other casualty or act of God, then the State shall notify the Lessee as soon as it is able as to whether or not the State intends to rebuild the Equipment Building and the likely time frame within which the rebuilding would be accomplished. During such rebuilding the Lessee shall, at its option, have the right to erect suitable temporary structures to effectuate the broadcast of the signal of the Lessee. If the State elects not to rebuild the Equipment Building then the Lessee may, at its option, elect either to terminate the Lease or to rebuild on the same site, substitute structures of similar design and size as existed prior to the damage with the approval of the State, which shall not be unreasonably withheld.

The State shall not be obligated to rebuild or replace any building wholly or substantially destroyed by fire, flood, weather event, act of God, or other casualty. The State shall not be liable to Lessee for any injury, loss, damage, or inconvenience occasioned by any cause whatsoever to the Property, including but not limited to any loss of income for any function, program or contract that may not take place for whatever reason due to an emergency or unforeseeable situation.

XV. INSTALLATION AND MAINTENANCE - COST

All improvements installed by the Lessee at the Property for its sole benefit shall be at the expense of the Lessee, and subject to prior written approval by the State. During the term of the Lease, the Lessee will maintain such improvements installed by the Lessee on the Property in a safe and reasonable condition, and neat in appearance so as to minimize visual impact. The materials and design for the installation at the Property shall comply with all applicable federal, state and local laws, rules and approvals. The Lessee shall have all construction plans relating to the project at the Property approved by applicable federal, state and local governmental authorities having jurisdiction over construction and installation of cell facilities on the Property ("Governmental Authorities") prior to the commencement of such construction and installation.

It is understood and agreed that the ability of the Lessee to use the Property is contingent upon its obtaining, after the execution date of the Lease, all of the certificates, permits and other approvals that may be required by any Governmental Authority as well as a satisfactory building structural analysis, so as to permit the use by the Lessee of the Property as contemplated by the Lease. The State shall cooperate with the Lessee in its effort to obtain all required Governmental Authority approvals (if any), and shall take no action which would adversely affect the status of the Property with respect to the proposed use thereof by the Lessee. Based upon current equipment installations and authorized use, Lessee represents that no such approvals are required. In the event

that Lessee makes changes in types of equipment installed, subject to the State's authorization, and/or the laws, regulations, or codes pertaining to the use of the currently installed equipment changes, which shall require further approval by a Governmental Authority, and any of such applications should be finally rejected or any certificate, permit, license or approval issued to the Lessee is canceled, expires, lapses, or is otherwise withdrawn or terminated by the relevant Governmental Authority, or, in the event that the Lessee determines that the Property site is no longer technically compatible for the use contemplated by the Lease, or that the Lessee, in its sole discretion, will be unable to use the Property for its intended purposes, the Lessee shall have the right to terminate the Lease subject to 90-day written notice to the State. Notice of the exercise by the Lessee of its right to terminate shall be given to the State in writing by certified mail, return receipt requested, and shall be effective upon the mailing of such notice by the Lessee. All rentals paid to said termination date shall be retained by the State. Upon such termination, the Lease shall become null and void and, except as expressly provided in the Lease, the parties shall have no further obligations including the payment of money, to each other. The Lessee shall remove any and all of its property from the Property prior to termination of the Lease under this paragraph.

XVI. CONDITIONS - RENT ABATEMENT

The obligations of the Lessee hereunder, including the obligations to pay rent, are expressly conditioned upon and subject to the following:

- (a) The continued authorization of the Lessee to use the Facilities for the purposes intended by the Lessee pursuant to all necessary approvals from Governmental Authorities relating to such use; and
- (b) The continued retention by the State of good, clear, and marketable title to the Property underlying the Leased Premises, and such title remaining free from encumbrances and restrictions which would interfere with the use of the Leased Premises intended by the Lessee or would impair the ability of the Lessee to pledge the leasehold estate as collateral to secure debt financing.

If any of the foregoing conditions should fail to remain satisfied, the Lessee shall have no obligation to pay rent until such condition is once again satisfied or waived, and rent which would otherwise be due during the intervening time pending satisfaction of such condition is hereby excused and forgiven.

XVII. LEASE RUNNING WITH THE LAND

The covenants, terms, conditions, provisions and understandings in the Lease shall be construed as covenants running with the land and are binding upon and inure to the benefits of the respective successors and assigns of the parties herein.

XVIII. ENTIRE AGREEMENT

The Lease expresses the entire agreement between the parties, and supersedes all prior understandings.

XIX. NOTICES

All notices, demands, requests and other communications required by the Lease shall be in writing and shall be considered properly given if sent by United States registered or certified mail, postage prepaid, to:

- (a) The State:
The State of New Hampshire
Department of Resources and Economic Development
172 Pembroke Road
Concord, New Hampshire 03301
Attention: Jeffrey J. Rose, Commissioner (or duly appointed successor)

or at such other address of the State from time to time may have designated by written notice to the Lessee. Such notice shall be deemed properly given upon the posting in the United States mail.

- (b) The Lessee:
Massachusetts Institute of Technology
Lincoln Laboratory
244 Wood Street
Lexington, MA 02420-9108
David M. Pronchick, Assistant Dept. Head, Contracting Services (or designee)

With a copy to:
MIT
Office of the General Counsel
77 Massachusetts Avenue
Building 7-206
Cambridge, Massachusetts 02139

or at such other address as the Lessee from time to time may have designated by written notice to the State. Such notice shall be deemed properly given upon the posting in the United States mail.

XX. AMENDMENT - EXTENT OF INSTRUMENT - CHOICE OF LAWS - ETC.

The terms of the Lease may be modified or amended by written agreement between the Lessee and the State. The Lease, which may be executed in a number of counterparts each of which shall have been deemed an original but which shall constitute one and the same instrument is to be construed according to the laws of New Hampshire, is to take effect as a sealed instrument, is binding upon, inures to the benefits of, and shall be enforceable by the parties hereto and their respective successors and assigns.

XXI. SOVEREIGN IMMUNITY

The Lease does not abridge or limit, nor shall it be interpreted as abridging or limiting the sovereign or official immunity to which the State and its representatives and agents are lawfully entitled.

XXII. SEVERABILITY

If any term of the Lease or any application thereof shall be invalid or unenforceable, the remainder of the Lease and any application of such term shall not be affected thereby.

XXIII. NO WAIVER OR BREACH

No assent, by either party, whether express or implied to a breach of a covenant, condition or obligation by the other party, shall act as a waiver of a right of action for damages as a result of such breach, or shall be construed as a waiver of any subsequent breach of the covenant, condition or obligation.

XXIV. NOTICE OF LEASE

The State agrees to execute a Notice of the Lease Agreement, substantially in the form of that attached hereto as Exhibit "C", which the Lessee shall record with the appropriate recording officer. The date set forth in the Notice of Lease is for recording purposes only and bears no reference to commencement of either term or rent payments.

XXV. DEFAULT - THE LESSEE'S RIGHT TO CURE - TERMINATION - RESTORATION

In the event there is a default by the Lessee with respect to any of the provisions of the Lease or its obligations under it, including the payment of rent, the State shall give the Lessee written notice of such default. After receipt of such written notice, the Lessee shall have fifteen (15) days in which to cure any monetary default and thirty (30) days in which to cure any non-monetary default, provided the Lessee shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days whose length of time shall be agreed upon by the parties, and the Lessee commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. The State may not maintain any action or effect any remedies for default against the Lessee unless and until the Lessee has failed to cure the same within the time periods provided in this paragraph. The failure of the Lessee to act to cure the default within the specified time periods shall be just cause for termination of the Lease.

The Lessee shall have the unilateral right to terminate the lease at any time by giving ninety (90) day written notice to the State of the exercise by the Lessee of this option.

The Lessee, upon termination of the Lease, shall, within sixty (60) days of termination, remove all of its equipment, personal property and all fixtures from the Property and repair any damage caused by its use of the Leased Premises or the removal of its equipment, reasonable wear and tear excepted. If such time for removal causes the Lessee to remain on the Leased Premises after termination of the Lease, the Lessee shall pay rent at then-existing monthly rate or on the existing

monthly pro rata basis if based upon a longer payment term, until such time as the removal of the equipment, personal property and all fixtures are completed.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties hereto have caused the Lease to be executed the day and year first above written.

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF RESOURCES
AND ECONOMIC DEVELOPMENT

By: Jeffrey J. Rose
Jeffrey J. Rose
Commissioner

THE STATE OF NEW HAMPSHIRE
COUNTY OF MERRIMACK

The foregoing instrument was acknowledged before me this 20th day of December 2015, by Jeffrey J. Rose, in his capacity as Commissioner of the Department of Resources and Economic Development.

Linda F. Corriveau
NOTARY PUBLIC/JUSTICE OF PEACE
Linda F. CORRIVEAU, Notary Public
My Commission expires: My Commission Expires September 3, 2019

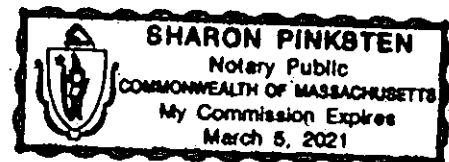
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

By: Israel Ruiz
Name: Israel Ruiz
Title: Executive Vice President and Treasurer
Duly Authorized

THE COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

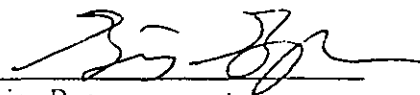
The foregoing instrument was acknowledged before me this 21 day of October 2015, by Israel Ruiz in his capacity as EVP & Treasurer

Sharon Pinksten
NOTARY PUBLIC/JUSTICE OF PEACE
My Commission expires: _____



Approved as to form, substance and execution

Date 12/23/15

By: 
Brian Buonamano
Office of NH Attorney General

Approved by Governor and Council

Date _____

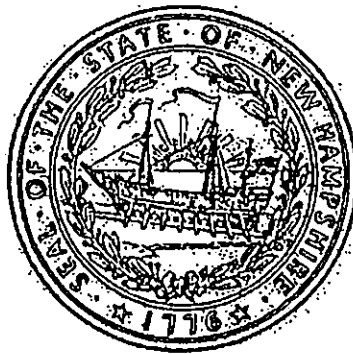
Agenda Item No. _____

The following Exhibits are attached hereto and incorporated herein by reference:

- "A" State of New Hampshire Department of Resources and Economic Development Policy of Use and Management of Mountaintops for Communication Facilities
- "B" State of New Hampshire Department of Resources and Economic Development Technical Requirements for Use of Communication Sites
- "C" Notice of Lease
- "D" Equipment List

Exhibit A

STATE OF NEW HAMPSHIRE
DEPARTMENT OF RESOURCES AND ECONOMIC DEVELOPMENT



POLICY ON USE AND MANAGEMENT
OF DRED COMMUNICATION FACILITIES

Adopted Nov. 7, 1989
Revised April 15, 1998
Reviewed January 2, 2008
Revised January 1, 2014

Jeffrey J. Rose, Commissioner

172 Pembroke Rd
Concord N.H. 03301
State of New Hampshire
Department of Resources and Economic Development

POLICY ON USE AND MANAGEMENT OF DRED COMMUNICATIONS FACILITIES

INTRODUCTION

In 1964, the State of New Hampshire, recognizing the future needs for public communication sites and the potential proliferation of antenna towers, microwave dishes, transmitter buildings and other apparatus on New Hampshire's high peaks and ridges, established a policy limiting radio/electronics installations on Department of Resources and Economic Development (DRED) administered land. At that time, the primary concerns were providing sites for future public communication needs and mitigating the visual impact of installations. New communication installations and renewals of existing permits were limited to public agencies. Requests for new communications installations by agencies not supported with public funds were considered only where installations would provide a measure of public service or public safety.

In the 1980's, three additional concerns developed regarding communication facilities on state-owned summits. First was a concern for protecting the aesthetics and natural condition of the State's high peaks and ridges. Second was a concern regarding electronic interference and signal deterioration caused by the growing number of transmission and reception installations.

Although there currently isn't a way to quantify the threshold below which a transmission signal becomes unacceptably weakened by neighboring users, each addition of equipment at a site has a negative effect. As the number of installations increased, so had the concern over maintaining signal integrity since most of the Communications users at state-owned mountaintops were there for the purposes of public health and safety, law enforcement, national defense, and public information.

The third concern was the potential negative impact to public health from intense communications signals. The mountaintops were originally acquired and maintained for the visiting public and it was important to limit radio frequency radiation to levels safe for continued public use of the area.

In 2012, a review of the policy was prompted by DRED's growing responsibility for over 167,000 acres of public land and an ever increasing demand to install or expand communications facilities on DRED lands to enhance public safety and security, and to fulfill the public interest for commercial broadband internet access. In 2013, the Policy was revised to: a) provide new guidelines and processes for establishing new or expanded communication sites in locations beyond just mountaintops; b) allow for commercial communications applications and corresponding lease fees; and c) ensure that impacts from new or expanded communications facilities to the land's traditional uses and purposes were minimized and mitigated.

As the result of a "Internal Control Review" of the Communications Program by the Office of Legislative Budget Assistant – Audit Division, a "Communications Program Manual" was developed. The Manual dovetails with the Policy and established procedures and protocols, including accountability of equipment and sites through a newly acquired database – ComSite,

and the billing and collecting of Program revenues through the State's new billing system - LA WSON/NHFfirst.

I. DEFINITIONS:

"Commissioner" shall mean the Commissioner of the Department of Resources and Economic Development (DRED).

"Permit" shall mean any form of agreement, including licenses, special use permits, or leases issued by the Commissioner for use of a DRED communication site.

"Private user" shall mean any person or business entity, including a non-profit organization, which is not a "public user" or "quasi-public user."

"Public user" shall mean a federal, state, county, or municipal agency or some governmental association thereof.

II. GOAL:

The ultimate goal for state-owned locations used for communications facilities, including mountaintops, is to have such areas cleared of all appurtenances and machinery, with the possible exception of observation platforms. This goal cannot be realized until the technology of electronic communications has advanced to where antennas and other electrical paraphernalia are outmoded. Until that time, the overall management objective for communications sites will be to give priority to transmission sites for communications critical to the public health, safety and welfare, while minimizing the aesthetic and environmental impacts of these communications facilities.

III. POLICY:

It is the policy of the Department of Resources and Economic Development to permit, when no other feasible alternative is available, controlled development of state-owned land under its jurisdiction for electronic communications necessary to public health, safety and welfare; and to facilitate, wherever possible, in the consolidation of commercial electronic communication networks across the state.

IV. GUIDELINES AND CONSIDERATIONS:

A. Values to Be Protected: Management of the communications sites on DRED lands is intended to protect three distinct values deemed essential to the public interest:

1. *Aesthetics/natural condition and public use*: To maintain the natural and scenic character of an area. Communication facilities shall be installed so as to have the least physical disturbance or modification of the natural environment and minimal impact to the public enjoyment of these environments.

2. *Public health, safety and welfare*: To consider communications projects necessary and desirable to maintain or improve the health, safety and welfare interests of the public at large, as well as to reasonably safeguard the health and safety of visitors to communication sites.
 3. *Electronic integrity*: To uphold the non-interference of communications signals and frequencies between communications systems and/or associated electrical devices.
- B. Communication Site Designation: In order to articulate the use of DRED properties for communications activities, the following site designations are hereby established for the purpose of describing existing assets and limitations that each site category may possess. All current and future sites will be classified by these designations:
1. *Multiple Use Sites ("MU")* may allow for the full range of communication uses, so long as those uses are compatible with site conditions, typical management activities, traditional public use, and deed covenants, if any; and strive to minimize the aesthetic and environmental impacts. MU Sites typically contain electric power from off-site, phone capability, and usually have generator back-up capabilities. Infrastructure specific to communications can be erected at these sites (tower, building, etc.) provided such installations are in compliance with and meet the objectives of the other sections of this policy.
 2. *Limited Use Sites ("LU")* have one or more limitations that prohibit the expansion of a LU Site. Limitations may include, but are not limited to: access issues; protection of special aesthetic or natural site conditions; lack of a power source, telephone, or fiber resources; public health or safety concerns; interference with other communication sites; or incompatibility with other primary uses of a particular site. These sites shall have restrictions placed upon them based upon their limiting factors.
 3. *Restricted Use Sites ("RU")* are restricted communication sites and shall be limited to only those uses that are deemed a critical need for public health, safety or welfare; where the benefits derived from having the communication site outweigh the potential detriments to the values to be protected. Examples of restricted uses include those related to fire and rescue, law enforcement, emergency medical services, and/or emergency management. Such sites shall not be used for commercial activities or "for profit" purposes. Measures shall be taken to ensure that no alternatives sites exist, and that aesthetic and environmental impacts will be minimized or mitigated.
- C. Approved, Designated DRED Sites: The following specific DRED sites are hereby designated by the Commissioner as "Communication Sites." The letter designation after each site indicates its current designation.

Belknap Mountain, Belknap Mountain State Forest (MU)
 Blue Job Mountain, Blue Job State Forest (MU)
 Cannon Mountain, Franconia Notch State Park (MU)
 Cardigan Mountain, (RU)
 Federal Hill, Federal Hill Fire Tower (LU)
 Hampton Beach State Park, (RU)
 Holden Hill, Coleman State Park (MU)
 Hyland Hill, Hyland Hill State Forest (MU)
 Jordan Hill, Walker State Forest (RU)
 Kearsarge Mountain, Kearsarge Mountain State Forest (MU)
 Magalloway Mountain (RU)
 Milan Hill, Milan Hill State Park (MU)
 Oak Hill, Oak Hill Fire Tower (MU)
 Pack Monadnock Mountain, Miller State Park (MU)
 Pitcher Mountain, Pitcher Mountain Fire Tower (MU)
 Prospect Mountain, Weeks State Park (LU)
 Mt. Sunapee, Mt. Sunapee State Park (MU)
 Mt. Washington State Park, (MU)
 Wantastiquet Mountain, Wantastiquet Mountain State Forest (MU)
 Warner Hill, Warner Hill Fire Tower (MU)

Development of communications facilities at these sites shall be restricted to specific areas, as determined by the Commissioner.

V. APPLICATION FOR COMMUNICATIONS SITE USE:

- A. Application for a communication site use will be filed with the Commissioner, Department of Resources and Economic Development and shall include the following information:
 1. Demonstrated need for public health and safety, or for the public welfare interests served by commercial-service communications.
 2. Complete plans and specifications of the proposed installation including, but not limited to, buildings, towers, power lines, accessory structures, fuel tanks, generators, method(s) of access to the site and access improvements.
 3. Detailed specifications including type, frequency, size and proposed location of

receiving and/or transmission unit(s) and antenna(s).

4. Analysis of compatibility with existing facilities and equipment (intermod and structural analysis) and power requirements.
5. Written documentation that the installation meets the current ANSI standards for controlled and uncontrolled human exposure to radio frequency electromagnetic fields. Cumulative effects of the proposed installation together with the existing facilities shall be considered.
6. Power and access availability without major new development.

B. Applications for New Communications site designations will be filed with the Commissioner, Department of Resources and Economic Development and shall include the following process.

1. A description of alternative sites considered, including other DRED-designated communication sites and locations on private property, and the results from an investigation that demonstrates why the alternative sites are not feasible.
2. Compatibility with long-range multiple use plans.
3. Aesthetic compatibility with surrounding environment.
4. Impact on aesthetic/natural and recreational resources and efforts to minimize or mitigate such impacts.
5. Deed and/or property use restrictions.

Regional and Local Review: In accordance with RSA 674:54 II, all applications for new communication site designations shall be sent to the Board of Selectmen/City Council of the municipality and to the appropriate Regional Planning Commission in which the proposed site is located to provide an opportunity for public hearing(s), subject to the following:

1. DRED will provide a public notification in a newspaper in general circulation in the area stating that a proposal for a new communication site designation has been sent to the municipality.
2. DRED will provide written notification to: (1) persons who have interests of record in the site; (2) persons who have written use agreements for the site on file with DRED; (3) landowners across which the State has deeded or written access rights to the site; and (4) donors of land which contains the site.
3. DRED personnel and the applicant shall participate in any hearing(s) requested by the municipality or by the Regional Planning Commission.

4. DRED shall respond in writing to any written comments made by the municipality relative to the application and received within 30 days after the hearing. Responses shall identify any modifications made in response to comments from the municipality or a written explanation as to why the implementation of the comments would be contrary to the proposed public project.
5. Upon completion of the processes described in this section, applications for a new communication site shall be submitted to Governor and Executive Council for final approval.
6. Applications from public and private users shall be submitted to the local governing body by the applicant for approval under the municipality's Site Plan Review Regulation.
7. Application(s) for use permits or leases for new communication sites shall follow the same procedures as existing designated sites.
8. Application(s) for a new site, or modification or expansion of an existing site may be reviewed by the Communication Site Advisory Committee, as deemed necessary by the Commissioner.
9. Once a site has been officially designated, new users on the site can be processed by the DRED communications office without review by the Advisory Committee, providing the new user doesn't significantly modify or alter the site, such as but not limited to adding buildings, extending the tower height or other buildings or structures, in which case it shall be reviewed by the Advisory Committee.

VI. CONSOLIDATION:

- A. Towers and buildings: on each communication site will be consolidated and shared by site users in a manner striving for the following goals:
 1. A single, expandable, low profile transmitter building serviced by a single, non-overhead utility line.
 2. As few multiple-use, broadband antennae as are technically feasible, affixed to a single tower. Such consolidation will be planned on a site-by-site basis according to building design, cable and power layout, and vegetation distribution; and accomplished through cooperative funding among users, contributions, or bonding.
 3. Additions to, and modifications or relocation of, existing structures and equipment shall be compatible with the designated site plan for consolidation of facilities through shared use.

VII. ADVISORY COMMITTEE:

A. Communication Site Advisory Committee is established as an adjunct to the Commissioner's office. Technical advisors may serve as deemed necessary or desirable by the Committee. Committee membership shall include the following individuals or their designee:

- Director, Division of Forests and Lands
- Director, of Parks and Recreation
- Director, Division of State Police
- Executive Director, New Hampshire Fish & Game Department
- President/Forster, Society for the Protection of New Hampshire Forests
- Executive Director, Local Government Center

B. Purpose: The Advisory Committee is established for the purpose of advising the Commissioner on the following matters:

1. Designation of new communication sites, or modification to tower height, building size and/or expansion of existing sites if deemed necessary by the Commissioner.
2. Developing Plans for consolidation of facilities.
3. Policies, rules, and regulations for communication site management may be reviewed periodically
4. Recommended changes to policy, rules and regulations for communications site management may be made by Advisory Committee, Communications Site Committee, Communications Section Chief, or the Department and approved by the Commissioner.

VIII. MODIFICATION OR EXPANSION OF EXISTING SITES:

A. New or Expansion Proposals: Proposals for new or enlarged installations at designated communication sites, which are demonstrated to be in the overall interest of public health or safety will be given the highest priority. New users may be permitted subject to the following:

1. Can be accomplished without compromising the values to be protected under Section IV. A, and
2. Would result in a net improvement in onsite facility aesthetics, primarily through consolidation, or
3. Would result in enhanced public recreation access or opportunities, or
4. Would provide the tower or building space needed to accommodate "public users," as determined by the Commissioner.

IX. INTERFERENCE:

- A. New Installations: New installations/users shall not interfere with existing installations, users and functions. Where irreconcilable conflicts arise between "public user," and "private user" installations over electronic interference, space, power supply, or location, the "public" or "quasi-public" user shall take precedence and displace the "private user." Order of displacement is: 1) private users; 2) quasi-public users engaged in low power broadcasting; 3) Other quasi-public users. Within each category, newest installations shall be displaced first.
- B. Electronic Interference: In the case of a complaint of electronic interference or other conflicts created by a new installation, it shall be the responsibility of the proponent of the new installation to submit plans for resolving the complaint or potential problem. The plans shall be consistent with the site consolidation effort. The complainant and new installation proponent shall attempt to resolve the matter. Unresolved issues and the proponent's plans shall be submitted to the Communication Office within 10 working days of the complaint for review and recommendation for action by the Commissioner.

X. OTHER INSTALLATION REQUIREMENTS:

A. Additional considerations shall include:

1. Communication tower(s) on DRED communication sites shall be the minimum height necessary to meet technical requirements of the equipment installed and the service area, but under no circumstances shall tower structure exceed 180 feet in height.
2. All DRED communication sites shall meet the current American National Standards Institute (ANSI) requirements for controlled and uncontrolled human exposure to radio frequency electromagnetic fields.
3. Permits/leases for site use are not transferable and facilities (buildings, tower and equipment) may not be sub-leased.
4. Requests for changes or modification of a permitted installation shall be submitted in writing for approval by the Commissioner.
5. Site users shall comply with all applicable federal, state and local laws, ordinances and rules.
6. All equipment installations shall be accomplished in compliance with the latest edition of the "State of New Hampshire Department of Resources and Economic Development Technical Requirements For use of Communication Sites," and all grounding of equipment will meet Motorola's R-56 requirements.
7. Intermod Study is required of all new prospective users or a change of frequency by a current user.

8. Structural analysis may be required by new users and upgrades by current users.
9. An RF Study is required by all new users at all sites. Sites that are manned by volunteers or paid personnel require the RF Study to specifically reference and address the effects and risk to personnel from RF exposure.

XI. TENANT CATEGORIES (basis for annual rent):

The following table depicts the tenant categories and provides the degree of annual rent to be charged in order to occupy a DRED communication site:

CATEGORY	ANNUAL RENT BASIS
NH State Entity	Beneficial Services (no-charge tenants as of 1/1/2013)
Federal Entity	Fair Market Rent
Government/Quasi-Governmental, Municipalities, County, Other State	Administrative Fee (\$1,000 as of 1/1/2013)
Commercial	Fair Market Rent
Other	Fair Market Rent

XII. FEES:

A. Fair Market Value Rent: All new or renewed non-state tenant contracts (leases, permits, licenses) shall be assessed an annual fair market value rent (the Market Rent) or annual administrative fee (the Administrative Fee; based on beneficial services arrangements and/or other considerations) for each communications site, which shall be set by the Commissioner.

1. Items to be considered in determining the Market Rent or Administrative Fee will include:

- Administration costs to the state.
- User classification (public, quasi-public, private) and type of installation.
- Prorated share of facilities maintenance.
- Inventory of the equipment installed at the site.
- Benefits accruing to the state as a result of joint installation.
- Costs associated with installations at alternative locations on private property.
- Market Rent values on comparable private communications sites.
- Potential impacts to existing state park or state forest operations.
- Public safety and/or quality of life considerations.

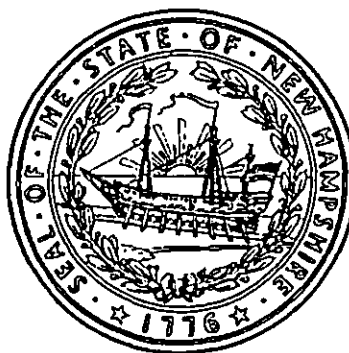
2. All communication installations on DRED lands owned by or leased to non-public tenants shall be subject to local taxes, payable by the tenant.

XIII. AMENDMENTS:

The Policy may be amended from time to time to serve the public interest upon recommendation of the Communication Site Advisory Committee and approval by the Commissioner.

Approved: Jeffrey J. Rose Date 1/29/14
Jeffrey J. Rose, Commissioner
Department of Resources and Economic Development

STATE OF NEW HAMPSHIRE
DEPARTMENT OF RESOURCES AND ECONOMIC DEVELOPMENT



**TECHNICAL REQUIREMENTS
FOR USE OF COMMUNICATION SITES**

Adopted June 30, 1995
Reviewed April 27, 2005
Revised February , 2014

Jeffrey J. Rose, Commissioner

172 Pembroke Road
Concord, N.H. 03301

State of New Hampshire
Department of Resources and Economic Development
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 Resources and Economic Development (DRED) communication sites as required by Item III.H.6 of the DRED "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 DRED 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 DRED 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 DRED 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 DRED 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 DRED 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 DRED 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 DRED 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 DRED will require approval of the DRED Site Manager.
- C. Emergency generating equipment or battery backup units shall not be installed without approval of the DRED 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 DRED. 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 DRED that they are causing harmful interference.
- C. The DRED 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 DRED 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 DRED 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 DRED 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 DRED will arrange to have work completed and will bill the site user for this work.

mtops.loc

Notice of Lease

Notice of the following Lease is hereby given in accordance with the provisions of the New Hampshire Revised Statutes Annotated, Chapter 477, Sections 7 and 7-a: And as per Chapter 72, Section 72:23 b, failure of the lessee to pay the duly assessed personal and real estate taxes when due (if applicable) shall be cause to terminate said lease or agreement by the lessor.

LESSOR: **STATE OF NEW HAMPSHIRE**, Department of Resources and Economic Development, having a mailing address of 172 Pembroke Road, Concord, New Hampshire 03301

LESSEE: **Massachusetts Institute of Technology (MIT)**, on behalf of MIT Lincoln Laboratory, a federally funded research and development center, a nonprofit corporation organized under the laws of the Commonwealth of Massachusetts and having a place of operations at 244 Wood Street, Lexington, MA 02420-9108

EFFECTIVE DATE:

DESCRIPTION: Communications Lease at Pack Monadnock Mountain, Miller State Park, Temple, NH

LEASED PREMISES

STATE, for and in consideration of the covenants and agreements hereinafter contained and made on the part of LESSEE, does hereby grant, demise and LEASE to LESSEE:

An area of land on Pack Monadnock Mountain, Miller State Park, Temple, New Hampshire for use as a radio link to other facilities of the State and as a test site for evaluating various types of communications, consisting of approximately ½ acre situated on the westerly side of Miller Park Road as presently occupied and used by the Lessee and is more particularly described as follows: On the north by other land of the State approximately 250 feet, on the west by other land of the State approximately 300 feet, on the south and east by Miller Park Road.

TERM: Five (5) years

DATE OF COMMENCEMENT OF TERM: The Lease shall commence on the first day of _____, 2015

RIGHTS OF EXTENSION OR RENEWAL: Three (3) successive five (5) year terms

EXECUTED as an instrument under seal on the dates indicated below.

LESSOR:

STATE OF NEW HAMPSHIRE
DEPARTMENT OF RESOURCES
AND ECONOMIC DEVELOPMENT

By: _____

Jeffrey J. Rose
Commissioner

STATE OF NEW HAMPSHIRE
COUNTY OF MERRIMACK

The foregoing instrument was acknowledged before me this 22nd day of December, 2015, by Jeffrey J. Rose, in his capacity as Commissioner of the Department of Resources and Economic Development.

NOTARY PUBLIC/JUSTICE OF PEACE

My Commission expires: _____

UNDA F. CORRIVEAU, Notary Public
My Commission Expires September 3, 2019

LESSEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

By: _____

Israel Ruiz

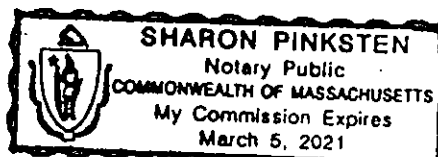
Title: Executive Vice President and Treasurer

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 21 day of October, 2015, before me, the undersigned officer, personally appeared, who acknowledged to be the Executive Vice President and Treasurer, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes contained therein, by signing in the name of the organization as such officer.

NOTARY PUBLIC/JUSTICE OF PEACE

My Commission expires: _____



EQUIPMENT INVENTORY**Mt. Pack Monadnock
Site****MIT Lincoln Laboratory
Organization****Edward Bucher
Contact Phone # 781-981-7613****TOWER MOUNTED EQUIPMENT:
(Antenna Make, Model, Feed-line Type)
(Tower Make, Model and height)****LOCATION:
(Mounted Elevation and Bearing on
Structure)**

24" Dish Quinstar model QRC-26024 K-band	Mounted on east end of building az:130 deg, el: -0.5 deg
24" Dish Quinstar model 46524 Ka-band	Same as above
24" Dish HXI Renaissance Inc	Same as above

**HOUSED EQUIPMENT:
(Make, Model, Serial Number,
Tx/Rx Frequencies) Also List Back-up
Power (Batteries or UPS)****LOCATION - SHELTER:
(Rack or Cabinet Mounted)****Aeroflex FS5000 Synthesizer s/n 195****K-band 17.5 - 21.5 GHz CW, 100 MHz steps 10 milliwatts max****Ka-band 32.5 - 36.5 GHz CW, 100 MHz steps 10 milliwatts max****V/W band 71-76 GHz and 81-86 GHz CW, 400 MHz steps 2 milliwatts max**

These systems are part of a propagation measurement system which can step across these bands in order to measure scintillation, fading and polarization changes due to the atmosphere. The signals are received 26 miles away at the Westford radio telescope. Measurements are made from time to time, depending upon weather conditions. All transmitters are very low power and are bandpass filtered and meet FCC specs regarding spurious and harmonic emissions.

Copy of FCC Licenses and ARS # NTIA License in process**Signed:****Date:****Address****781-981-7623
Phone Number****SUBMIT TO: Justin Bellen
Division of Forests and Lands
PO Box 1856
Concord, NH 03301-1856**

Certificate of Authority

Corporate Resolution

I, R. Gregory Morgan, hereby certify that I am duly elected Senior Vice President and Secretary of Massachusetts Institute of Technology (MIT). I hereby certify the attached is a true copy of a vote taken at a meeting of the MIT Executive Committee, duly called and held on September 6, 2007, at which a quorum of the Executive Committee members were present and voted.

I hereby certify that said vote has not been amended or repealed and remains in full force and effect as of the date of the contract to which this certificate is attached. I further certify that it is understood that the State of New Hampshire will rely on this certificate as evidence that the Israel Ruiz currently occupies the position of Executive Vice President and Treasurer and that has have full authority to bind MIT. To the extent that there are any limits on the authority of any listed individual to bind the corporation in contracts with the State of New Hampshire, all such limitations are expressly stated herein.

DATED: 10/01/2015

ATTEST:

R. Gregory Morgan

R. Gregory Morgan
Senior Vice President and Secretary
of the Corporation

OVER →



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Kirk D. Kolenbrauder
Vice President for Institute Affairs and Secretary of the Corporation

Office of the President
77 Massachusetts Avenue, Building 3-107
Cambridge, MA 02139-4307
Phone 617-253-3365

7 September 2007

Ms. Theresa M. Stone
Room 3-221
MIT

Dear Terry

I am writing to confirm for your records that at its meeting on September 5, the Executive Committee:

VOTED: That, effective on and after September 6, 2007, the individuals from time to time holding the following positions at the Institute are, and each of them acting singly, is hereby authorized to sign in the name and on behalf of the Institute any and all contracts, bonds, and other agreements and documents which any such person acting in such position deems advisable and in the interests of the Institute:

- Chair of the Corporation
- President
- Executive Vice President and Treasurer
- Vice Presidents and General Counsel
- Vice President for Finance
- Director, Office of Sponsored Programs;

that any action taken on or after September 6, 2007 within the scope of the authority granted by this vote by any person holding any of the above-listed positions is hereby ratified as authorized; and that the signing and delivery of any such document in the name and on behalf of the Institute by any person holding any of the above-listed positions in order to carry out the purposes of this vote shall be conclusive as to the authority of the person so acting.

If you have any questions, please give me a call.

Sincerely,

Kirk D. Kolenbrauder

KDK/acb
Enclosures

cc: Mr. James L. Morgan
Mr. R. Gregory Morgan
Ms. Elizabeth M. Ogar
Mr. Israel Ruiz
Ms. Kathy D. Vitale



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/6/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Arthur J. Gallagher Risk Management Services, Inc.
2 Liberty Square, 5th Floor
Boston MA 02109

CONTACT NAME: Holley Gardiner
PHONE: 617-531-7744 FAX: 617-531-7731
(A/C No. Ext.)
E-MAIL: Holley_Gardiner@ajg.com
ADDRESS:

INSURED
Massachusetts Institute of Technology
77 Massachusetts Avenue
NE 18-901
Cambridge MA 02139

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: United Educators Ins	10020
INSURER B: Safety National Casualty Corporatio	15105
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

COVERAGES

CERTIFICATE NUMBER: 1815452671

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INER LTR	TYPE OF INSURANCE	ADD. SUBR INSD WVO	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:					EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Per occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMPOUND AGG \$ \$ \$ \$ \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON OWNED AUTOS					COMBINED SINGLE LIMIT (Per accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) \$ \$ \$ \$ \$
A	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$2,500,000	Y	GLX201500046300	11/1/2015	11/1/2016	EACH OCCURRENCE \$2,500,000 AGGREGATE \$2,500,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/EMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	SP4053974	11/1/2015	11/1/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

*****MIT SELF INSURES THE FIRST 2.5 MILLION IN LIABILITY*****

Additional Insured Endorsement: GLX 06-2008

RE: Massachusetts Institute of Technology for the Benefit of MIT Lincoln Laboratory - Pack Monadnock Mountain

The State of New Hampshire is an Additional Insured as respects policy referenced above per endorsement GLX 06-2008 pursuant to and subject to the policy's terms, definitions, conditions and exclusions as required by written contract.

CERTIFICATE HOLDER

CANCELLATION

The State of New Hampshire
Department of Resources and Economic Development
172 Pembroke Road
Concord NH 03301

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE