

FINAL NEPA SCREENING REPORT

Telecommunications Facility 101 Red Brook Road Mashpee, Massachusetts 02649



SUBMITTED TO:

Blue Sky Towers II, LLC
352 Park Street, Suite 106
North Reading, Massachusetts 01864

PREPARED BY:

Lucas Environmental, LLC
500A Washington Street
Quincy, Massachusetts 02169

REPORT DATE: July 31, 2018





500A Washington Street, Quincy, MA 02169

July 31, 2018

Blue Sky Towers II, LLC
Attn: Sean Gormley
352 Park Street, Suite 106
North Reading, Massachusetts 01864

Re: **Final** National Environmental Policy Act Screening Report
Site #: MA-5112
Site Name: Mashpee Fire Station #2
101 Red Brook Road, Mashpee, MA 02649

Dear Mr. Gormley,

Attached please find the Final National Environmental Policy Act (NEPA) Screening Report for the proposed telecommunications facility at 101 Red Brook Road in Mashpee, Massachusetts. The purpose of the NEPA Report is to evaluate this property for potential environmental and historical impacts specified by the Federal Communications Commission (FCC) in 47 CFR 1.1307, and general industry standards. The Permitting Drawings, prepared by ProTerra Design Group, LLC, dated September 27, 2017 and revised through June 12, 2018 were reviewed for the purposes of this screening.

A new telecommunications facility and access road are proposed on a portion of the parcel identified as Map 104, Lot 2. The property is an approximate 37-acre parcel which contains the Mashpee Fire Station #2, parking lot, stormwater structures, and undeveloped woodlands. The woodlands can be characterized as a mixed oak-white pine forest. The property is bounded to north, east, and south by forested areas, and to the west by the Mashpee Fire Station.

The proposed telecommunications facility will be located within a wooded area east of the existing fire station. The proposed facility will consist of panel antennas mounted onto the top of a proposed 150-foot tall monopole. The tower has been designed to accommodate a six-foot tall optional lighting rod, which would bring the total height of the structure to 156 feet. Associated telecommunications equipment will be located outside at the base of the structure within a 70-foot by 70-foot compound surrounded by a six-foot tall chain link fence, while a pad-mounted transformer will be located just outside the compound. The lease area for the facility is approximately 100-foot by 100-foot. Lease areas for future equipment shelters will be located within the fenced compound. Access to the site will be achieved through a 20-foot wide access and utility easement, extending from the existing parking lot of the Mashpee Fire Station. The utility easement will allow for a service connection to the proposed utilities along the edge of the fire station.

The NEPA Checklist and NEPA Summary Report for this facility have been enclosed. Based upon the results of this NEPA screening assessment, it appears that the telecommunications facility, as currently proposed, will not adversely impact any of the criteria as outlined in 47 CFR 1.1307(a) items (1) through (8) and the preparation of an Environmental Assessment (EA) is not required.



500A Washington Street, Quincy, MA 02169

This NEPA Screening Report was prepared according to the terms and conditions as authorized. There are no intended or unintended third party beneficiaries to this Report, unless specifically named. Lucas Environmental, LLC is an independent contractor and not an employee of either the property owner or the project Proponent. Compensation was not based on the findings or recommendations made in this Report. This screening and evaluations are based on the project specifications and plans provided to Lucas Environmental, LLC and referenced in this Report. If the design or location of the proposed telecommunications facility changes, please contact Lucas Environmental, LLC as additional review or consultation may be required.

Please contact me if you have any questions about the Report or the attached information enclosed, or if you require further assistance.

Sincerely,
LUCAS ENVIRONMENTAL, LLC

A handwritten signature in blue ink that reads 'Christopher M. Lucas'.

Christopher M. Lucas, PWS, CWS
Environmental Consultant/Soil Scientist
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Enclosures

cc: ProTerra Design Group, Thomas Johnson



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SECTION I – NEPA CHECKLIST



NEPA Land Use Screening Checklist

Site ID: Mashpee Fire Station #2 MA-5112	Site Address: 101 Red Brook Road Mashpee, MA 02649	Site Type (choose one): <input checked="" type="checkbox"/> Raw Land <input type="checkbox"/> Tower Colocation <input type="checkbox"/> Other Colocation <input type="checkbox"/> Tower Replacement
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FCC NEPA Category (See 47 CFR § 1.1307)	Federal, State, or Local Agency Contacted	Check appropriate boxes below			
		No Adverse Impact	Potential Adverse Impact	Exempt from Review	NPA Applies
1. Designated Wilderness Areas	National Park Service U.S. Forest Service Bureau of Land Mgmt.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Designated Wildlife Preserves	National Park Service U.S. Forest Service Bureau of Land Mgmt.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Threatened or Endangered Species, and Critical Habitats	U.S. Fish and Wildlife Service (USFWS) – New England Field Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Historic Place	State Historic Preservation Officer (SHPO) Tribal Historic Preservation Officer (THPO)	<input checked="" type="checkbox"/> SHPO Consultation Completed	<input type="checkbox"/>	<input type="checkbox"/>	Collocation Agreement Applies: <input type="checkbox"/> Nationwide Agreement: Exclusion Applies: <input type="checkbox"/>
5. Indian Religious Sites	American Indian Tribes Bureau of Indian Affairs Tribal Historic Preservation Officer (THPO)	<input type="checkbox"/> Tribal Consultation Completed	<input checked="" type="checkbox"/> Conditions to avoid impacts proposed; EA not required by Tribes.	<input type="checkbox"/>	Collocation Agreement Applies: <input type="checkbox"/> Nationwide Agreement: Exclusion Applies: <input type="checkbox"/>
6. Floodplain	Federal Emergency Management Agency (FEMA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Surface Features, Wetlands, and Floodways	USFWS NWI Maps U.S. Army Corps of Engineers (USACE)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. High Intensity White Lights	Federal Aviation Administration (FAA)				

Signature: Christopher M. Lucas Company: Lucas Environmental, LLC

Print Name: Christopher M. Lucas Date: July 31, 2018



SECTION II – NEPA SUMMARY REPORT



NEPA SUMMARY REPORT

FCC NEPA Summary Report (47 CFR Subpart 1, Chapter 1, Sections 1.1301-1.1319)

Site ID: Mashpee Fire Station #2 MA-5112	Site Address: 101 Red Brook Road Mashpee, MA 02649	Site Type (choose one): <input checked="" type="checkbox"/> Raw Land <input type="checkbox"/> Tower Colocation <input type="checkbox"/> Other Colocation <input type="checkbox"/> Tower Replacement
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§1.1307 (a) (1) OFFICIALLY DESIGNATED WILDERNESS AREA

Is the antenna structure located in an officially designated wilderness area?

According to a review of the Department of Agriculture's list of wilderness areas (<http://www.wilderness.net/index.cfm?fuse=NWPS>), the Project Site is not located in an officially designated wilderness area. In addition, according to Lucas Environmental's review of available on-line resources, the Project Site is not located in a National Park (www.nps.gov/gis), a designated Scenic and Wild River (<http://www.rivers.gov/massachusetts.php>), a land area managed by the Bureau of Land Management (<http://www.blm.gov/wo/st/en.html>), or within ¼ mile of a National Scenic Trail as identified by the National Park Service (http://www.nps.gov/ncrc/programs/nts/nts_trails.html).

§1.1307 (a) (2) OFFICIALLY DESIGNATED WILDLIFE PRESERVE

Is the antenna structure located in an officially designated wildlife preserve?

According to Lucas Environmental's review of available on-line resources, the Project Site is not located in an officially designated wildlife preserve (<http://www.fws.gov/refuges/whm/wilderness.html>). The Project Site is located within a U.S. Fish & Wildlife Service National Wildlife Refuge (<http://www.fws.gov/refuges/zipCodeLocator/index.cfm>), identified as the Mashpee National Wildlife Refuge. In a letter dated, October 26, 2017, Lucas Environmental contacted the USFWS office in Sudbury, Massachusetts to determine if the project would impact or otherwise adversely affect the National Wildlife Refuge. No response was received; however, in a phone conversation with Tom Eagle at the USFWS, Mr. Eagle stated that the tower is proposed within an acquisition boundary and is not located on land owned by the USFWS. As such, he has no concerns for this facility and an Environmental Assessment (EA) is not required. Correspondence is attached in Appendix E.



NEPA SUMMARY REPORT

§1.1307 (a) (3) LISTED, THREATENED OR ENDANGERED SPECIES/DESIGNATED CRITICAL HABITATS

Will the antenna structure likely affect threatened or endangered species or designated critical habitats? (Ref. 50 CFR Part 402)

According to a review of available on-line resources, no federally identified threatened or endangered species habitats or designated critical habitats are located within the Project Site.

Lucas Environmental, LLC reviewed the U.S. Fish & Wildlife Service (USFWS) website (<http://www.fws.gov/endangered/>; <http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>) to identify potential threatened or endangered species within Barnstable County, Massachusetts. Based upon this review, four species were identified within Barnstable County, three of which include the piping plover (*Charadrius melodus*), roseate tern (*Sterna dougallii*), and red knot (*Calidris canutus*); however, these species are found along the coast and ocean areas, which are not present on or near the site, therefore impacts are not anticipated for these three species.

The northern long-eared bat (*Myotis septentrionalis*) was also identified within Barnstable County. The general habitat of the northern long-eared bat includes mines and caves during the winter and a variety of forested habitats during the summer. The site is undeveloped with forested areas suitable for summer habitat available for this species. Approximately 12,300 square feet of tree clearing is proposed and the remaining forested areas will remain intact.

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) maintains a database of rare, threatened and endangered species in Massachusetts. A review of the current MassGIS data layer for the Massachusetts Natural Heritage Atlas (effective August 1, 2017) under the NHESP indicates that no portion of the Study Area is located within Estimated Habitat of Rare Wildlife or Priority Habitat of Rare Species. It is noted that the site was previously identified as Estimated and Priority Habitat for Rare Species according to the October 1, 2008 edition of the Massachusetts Natural Heritage Atlas. Correspondence with NHESP confirms the site is not currently mapped as Priority or Estimated Habitat. No Certified Vernal Pools under the jurisdiction of the Wetlands Protection Act Regulations (310 CMR 10.00 et seq.) or the Massachusetts Endangered Species Act (321 CMR 10.00 et seq.) occur within or near the subject property. According to available data from NHESP, there are no known northern long-eared bat hibernacula within one mile of the project site.

The Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form was submitted to the USFWS on October 26, 2017. This project proposes tree removal; however any resulting incidental take of the bat is not prohibited by the final 4(d) rule. No comments were received from the USFWS and therefore presumed that the determination is informed by the best available information and that its project responsibilities under 7(a)(2) with respect to the Northern Long-Eared Bat are fulfilled through the USFWS January 5, 2016, Programmatic Biological Opinion. Appendix D contains USFWS correspondence and NHESP information.



NEPA SUMMARY REPORT

Following the “Key to the Northern Long-Eared Bat 4(d) Rule for Federal Actions that May Affect Northern Long-Eared Bats,” and based on the characteristics of the Project Site and vicinity, it is LE’s opinion that:

- This project is excepted from incidental taking prohibitions in the final 4(d) rule;
- The project will not significantly affect any federally listed species (based on data reviewed, NHESP information, and USFWS correspondence);
- Minimal forested habitat will be impacted;
- The referenced facility is not located in an officially designated wilderness area, and;
- The referenced facility is not located in an officially designated wildlife preserve.

Additionally based upon the proposed design monopole and height (at/under 200 feet AGL) it is unlikely that the proposed telecommunications installation would adversely impact migratory bird species protected under the Migratory Bird Treaty Act and the Endangered Species Act. Therefore, Lucas Environmental concludes that the proposed project is unlikely to affect threatened or endangered species.

§1.1307 (a) (4) SECTION 106 CONSULTATION

Will the antenna structure affect districts, sites, buildings, structures, or objects significant in American history, architecture, archeology, engineering, or culture that are listed, or potentially eligible for listing in the National Register of Historic Places (NRHP)? (Ref. 36 CFR Part 800 regulations implementing Section 106 of the National Historic Preservation Act).

Lucas Environmental, LLC reviewed the proposed project plans against the Exclusions of the *Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process* (NPA). Lucas Environmental, LLC concluded that the proposed telecommunications facility does not meet any of the Exclusions listed in Section III of the NPA. Therefore, consultation with the Massachusetts Historical Commission (MHC) – State Historic Preservation Officer (SHPO) is required.

In a letter dated May 7, 2018, Lucas Environmental, LLC submitted the New Tower Submission Packet to the MHC SHPO for their review and comment. On June 5, 2018, the MHC SHPO concurred with our finding of “No Adverse Effect”. The MHC determined that this project is unlikely to affect significant historic or archaeological properties. Correspondence is attached in Appendix B.

In the unlikely event that unanticipated historic properties, cultural artifacts, archeological deposits, or human remains are inadvertently encountered during the proposed construction and associated excavation activities, the Proponent must halt activities immediately and contact the appropriate local officials and state agencies, in accordance with Federal and State regulations (36 CFR 800.13(b)).



NEPA SUMMARY REPORT

§1.1307 (a) (5) INDIAN RELIGIOUS SITES

Will the antenna structure affect Indian religious site(s)?

Based on the requirements of the *Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process* (NPA), Tribal consultation is required for this project because the proposed tower construction did not meet Exclusions A, B, C or F of the NPA.

Lucas Environmental, LLC completed the Tower Construction Notification System (TCNS) on October 6, 2017. On October 13, 2017, the FCC's TCNS sent the project information to Tribes listed on their database who have interest in the state in which the project is planned. Additionally, Lucas Environmental, LLC submitted follow-up requests and information packets for comment to each of the Tribes indicated by the TCNS to have a potential interest in the area of the project. Tribal communication to date for this project is summarized in the following table and included in Appendix C.

Tribe Name	Initial Notification (via TCNS or E-mail)	Response to Initial Contact	Contact Attempts	Response to Final Attempt	Action Recommended
Narragansett Indian Tribe	10-13-17 (TCNS)	Requested Consultation	10-26-17 12-19-17 01-11-18 03-06-18 03-29-18	FCC Referral 04/16/18	FCC Authorized Proponent to Proceed through Referral 05/09/18
Keweenaw Bay Indian Community	10-13-17 (TCNS)	Requested Consultation	10-26-17	11-14-17	No Properties of Interest
Lac Vieux Desert Band	10-13-17 (TCNS)	Requested Consultation	10-26-17	10-31-17	No Adverse Effect
Wampanoag Tribe of Gay Head Aquinnah	10-13-17 (TCNS)	No Response	10-26-17 12-19-17 01-11-18 01-29-18 +Numerous Phone Calls	FCC Referral 05/03/18	Cleared through FCC Referral 05/30/18
Mashpee Wampanoag Tribe	10-13-17 (TCNS)	Requested Consultation	10-26-17 11-20-17 12/14/17 01/11/18 01/29/18 04/23/18 05/10/18 06/14/18	07/24/18	Authorized to Proceed with Recommendations & Conditions



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Tribe Name	Initial Notification (via TCNS or E-mail)	Response to Initial Contact	Contact Attempts	Response to Final Attempt	Action Recommended
Bad River Band	10-13-17 (TCNS)	No Response w/in 30 days of TCNS	N/A	N/A	No Interest

The Mashpee Wampanoag Tribe have indicated that there is potential to have adverse effects due to the undisturbed soils on the site; however, have stated that they do not require an Environmental Assessment (EA) if the Proponent has a Tribal CRM on-site during all earthmoving activities. Blue Sky Towers II, LLC has agreed to the CRM, at their cost; therefore an EA is not required for tribal concerns.

In the unlikely event that unanticipated Historic Properties, cultural artifacts, archeological deposits, or human remains are inadvertently encountered during the proposed construction and associated excavation activities, the Proponent must halt activities immediately and contact the appropriate tribal governments, local officials and state agencies, in accordance with Federal and State regulations (36 CFR 800.13(b)).

§1.1307 (a) (6) FEMA 100 YEAR FLOODPLAIN

Will the antenna structure be located in a floodplain? (Ref. Executive Order 11988 and 40 CFR Part 6, Appendix A)

According to the July 16, 2014 Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for Barnstable County, Massachusetts, Map Number 25001C0753J, the Study Area is located within Zone X which is classified as an area determined to be outside the 0.2% annual chance floodplain (500-year flood). Therefore, the Study Area is not located within the 100-year floodplain or Bordering Land Subject to Flooding (See Appendix F).

§1.1307 (a) (7) IMPACTS TO SURFACE FEATURES

Will construction of the antenna structure involve significant change in surface features (e.g. wetlands, deforestation, or water diversion)? (Ref. Executive Order 11990 and 40 CFR Part 6, Appendix A)

Based upon Lucas Environmental’s assessment of the site, there are no documented wetlands or watercourses within 100 feet of the proposed telecommunications facility. According to a review of the Federal Wetlands Map (Appendix G), there are no wetland resource areas near the proposed work areas for the access roadway. A freshwater review of the U.S. Department of the Interior, Fish & Wildlife Service’s National Wetland Inventory (NWI) Map (available online at <http://wetlandsfws.er.usgs.gov/>) indicates that the Project Site is not located near any wetland resource areas. Permits from the U.S. Army Corps of Engineers under the Massachusetts Programmatic General Permit or from the Massachusetts Department of Environmental Protection under the Wetlands Protection Act would not be required.



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The proposed construction plans call for the removal of mature trees, however the project footprint is minimal in nature and it is not anticipated that the installation will result in significant deforestation. According to the proposed permitting plans and on-site observations, surface water body diversion will not occur.

§1.1307 (a) (8) HIGH INTENSITY WHITE LIGHTS/RESIDENTIAL ZONING

Is the antenna structure located in a residential neighborhood and required to be equipped with high intensity white lights?

According to client representatives and site plans, the proposed installation will not include high intensity white lights and is not located within a residential neighborhood.

§1.1307 (a) (9) HUMAN RADIO FREQUENCY (RF) EXPOSURE

Will the antenna structure equal or exceed total power (of all channels) of 2000 Watts ERP (3280 EIRP) and have antenna located less than 10 meters above the ground? Will the rooftop antenna project equal or exceed total power (of all channels) of 2000 Watts ERP (3280 EIRP)?

An evaluation to determine whether radiofrequency (RF) emissions standards are met was not included as part of this NEPA Screening Report. Lucas Environmental, LLC understands that client representatives will evaluate the project to ensure compliance with applicable RF standards.



SECTION III – APPENDICES
