

**HISTORIC PROPERTY/PROPERTIES AFFECTED TABLE
RESULTS OF EFFECT EVALUATION FOR
Antrim Center Historic District**

Significance (including Criteria): The Antrim Center Historic District was determined eligible for listing in the National Register of Historic Places (National Register) and New Hampshire State Register of Historic Places (State Register) in 2012, under Criterion A in the area of Community Planning and Development Trends. The historic district is significant as a nineteenth and early twentieth-century village that served as the second town center for Antrim. Character-defining features under Criteria A include the viewsheds within the district from Clinton Road to the base of Meetinghouse Hill where the Antrim Grange is located and from which the district derives its significance. Other character-defining features include the open land surrounding the Bass Farm, wood lots throughout the district, a natural stream/drainage which forms part of the western boundary and the open land contained within the village’s center at the intersection of Clinton and Meetinghouse Hill Roads. These areas help to visually and geographically unite the northern and southern portions of the village. The district was also determined eligible for listing in the National and State registers under Criterion C in the area of Architecture as a notable collection of buildings and sites that reflects distinct styles, types, forms and periods of construction from the nineteenth to early twentieth centuries. Character-defining features under Criteria C include materials, design, and workmanship of the buildings that comprise the architecture of the historic district. The district maintains integrity of location and setting as the landscape within its boundaries has remained largely unchanged. Integrity of feeling and association as an early village remains intact as there has been little development within the district outside the period of significance (ca. 1820 to ca. 1946). Integrity of materials, design and workmanship is largely intact in the majority of extant resources that comprise the district.

NR Boundary (description/justification): The National Register boundary for the village of Antrim Center is based upon the start of the village at the crossroads of present-day Clinton and Meetinghouse Hill roads ca. 1820, when the road was rerouted to the base of Meetinghouse Hill into what would become Antrim Center. It encompasses the village’s expansion through the nineteenth century to include adjacent dwellings, farms, and institutional buildings that were constructed around the crossroads of present-day Clinton and Meetinghouse Hill roads on historic maps (See boundary shown on attached Antrim Center Viewshed Map). The boundary also includes portions of multiple parcels of undeveloped land near the village center at the intersection of present-day Clinton and Meetinghouse Hill roads. The precise boundary includes the following tax parcels: Map 227, Parcels 1, 2, 3, 5, 6, 7, 41 and 42; Map 228, Parcels 1, 2, 3, 9, 27 and 28 (Antrim Center Congregational Church lot); Map 223, Parcels 23, 24, 25 and 26 (Town of Antrim “New Tax Maps 2008,” accessed April 10, 2012).

Individual Properties		Districts	
NR	SR	NR	SR
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DEFINITION OF EFFECT	EVALUATION
An effect may occur when there is alteration to the characteristics of a historic property qualifying it for inclusion in or eligible for the National Register as defined in Section 800.16(1).	The characteristics that qualify the Antrim Center Historic District for the National Register may be affected by the construction of the proposed project.
RECOMMENDED FINDING	The construction of the proposed project will have an <i>Effect</i> on the Antrim Center Historic District

	<p>because it has the potential to alter characteristics that qualify the district for inclusion in the National Register. Antrim Wind Energy is proposing to construct a total of 10 wind turbines located on the Tuttle Hill and Willard Mountain ridgelines located west of the Antrim Center Historic District. The wind turbines have the potential to be visible from within the historic district and alter its setting, which is one of the characteristics that qualify the historic district for inclusion on the National Register. Pursuant to 36 CFR § 800.11(e), the Criteria of Adverse Effect must be applied.</p>
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**APPLICATION OF THE CRITERIA OF ADVERSE EFFECT FOR
Antrim Center Historic District**

Significance (including Criteria): The Antrim Center Historic District was determined eligible for listing in the National Register of Historic Places (National Register) and New Hampshire State Register of Historic Places (State Register) in 2012, under Criterion A in the area of Community Planning and Development Trends. The historic district is significant as a nineteenth and early twentieth-century village that served as the second town center for Antrim. Character-defining features under Criteria A include the viewsheds within the district from Clinton Road to the base of Meetinghouse Hill where the Antrim Grange is located and from which the district derives its significance. Other character-defining features include the open land surrounding the Bass Farm, wood lots throughout the district, a natural stream/drainage which forms part of the western boundary and the open land contained within the village’s center at the intersection of Clinton and Meetinghouse Hill Roads. These areas help to visually and geographically unite the northern and southern portions of the village. The district was also determined eligible for listing in the National and State registers under Criterion C in the area of Architecture as a notable collection of buildings and sites that reflects distinct styles, types, forms and periods of construction from the nineteenth to early twentieth centuries. Character-defining features under Criteria C include materials, design, and workmanship of the buildings that comprise the architecture of the historic district. The district maintains integrity of location and setting as the landscape within its boundaries has remained largely unchanged. Integrity of feeling and association as an early village remains intact as there has been little development within the district outside the period of significance (ca. 1820 to ca. 1946). Integrity of materials, design and workmanship is largely intact in the majority of extant resources that comprise the district.

NR Boundary (description/justification): The National Register boundary for the village of Antrim Center is based upon the start of the village at the crossroads of present-day Clinton and Meetinghouse Hill roads ca. 1820, when the road was rerouted to the base of Meetinghouse Hill into what would become Antrim Center. It encompasses the village’s expansion through the nineteenth century to include adjacent dwellings, farms, and institutional buildings that were constructed around the crossroads of present-day Clinton and Meetinghouse Hill roads on historic maps (See boundary shown on attached Antrim Center Viewshed Map). The boundary also includes portions of multiple parcels of undeveloped land near the village center at the intersection of present-day Clinton and Meetinghouse Hill roads. The precise boundary includes the following tax parcels: Map 227, Parcels 1, 2, 3, 5, 6, 7, 41 and 42; Map 228, Parcels 1, 2, 3, 9, 27 and 28 (Antrim Center Congregational Church lot); Map 223, Parcels 23, 24, 25 and 26 (Town of Antrim “New Tax Maps 2008,” accessed April 10, 2012).

Individual Properties		Districts	
NR	SR	NR	SR
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Eligible (district N/A)

Eligible, also in district

Eligible, only in district

Eligible

Not eligible

Listed in the NRHP

<input type="checkbox"/> <input type="checkbox"/> Listed in the NRHP <input type="checkbox"/> <input type="checkbox"/> Not evaluated for individual eligibility	<input type="checkbox"/> <input type="checkbox"/> Not evaluated as a district
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CRITERIA OF ADVERSE EFFECT

An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register of Historic Places in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property's eligibility for the National Register. Adverse Effects may include reasonably foreseeable effects caused by the undertaking that may occur late in time, be farther removed in distance or be cumulative.

Example of Adverse Effects, pursuant to Section 800.5(a)(2)	Evaluation
Adverse effects on historic properties include, but are not limited to:	
(i) Physical destruction of or damage to all or part of the property;	The nearest of the 10 wind turbines proposed as part of the Antrim Wind Energy project will be located approximately 2.5-miles west of the historic district. Therefore, the proposed project will not result in the physical destruction of or damage to all or part of any property within the Antrim Center Historic District.
(ii) Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation and provision of handicapped access, that is not consistent with the Secretary's Standards for the Treatment of Historic Properties (36 CFR§68) and applicable guidelines;	The proposed project will not involve alteration of the historic district that is inconsistent with the Secretary's Standards.
(iii) Removal of the property from its historic location;	The proposed project will not involve the removal of the historic district, or any properties contained within, from their historic location.
(iv) change of the character of the property's use or of physical features within the property's setting that contribute to its historic features;	The proposed project will not result in a change of the character of the historic district's use or of physical features within its setting that contribute to its significance. The proposed wind turbines will be located approximately 2.5-miles west of the historic district and will not alter the character-defining features or views within the district to the base of Meetinghouse Hill where the Antrim Grange is located and from which the historic district derives its significance under Criterion A.
(v) Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features;	A total of 10 wind turbines will be constructed on the Tuttle Hill and Willard Mountain ridgelines located west of the Antrim Center Historic District. The nearest turbines to the historic district (turbine numbers 2, 3 and 4) are located approximately 2.5- miles west of the historic district (see attached Antrim Center Historic District Photosimulation Location Map). A comprehensive sound level assessment was conducted for the Antrim Wind Energy Project by Epsilon Associates, Inc. in November 2011. Sound levels due to wind turbine operation are expected to be less than

	<p>45 dBA at all residences within the project area, including historic properties. These sound levels are expected to meet previously approved noise conditions from the New Hampshire Site Evaluation Committee, the World Health Organization's 45-dBA nighttime guideline for residential locations, and the US EPA guideline of 48.6 dBA. Calculations based on the viewshed mapping prepared by Saratoga Associates indicate that the turbines may be visible from 19.19% of the approximate 99-acre Antrim Center Historic District (see attached Antrim Center Viewshed Map). The viewshed map indicates that the central portion of the historic district centered on the Antrim Grange and the intersection of Clinton and Meetinghouse Hill roads may have visibility of at least a portion of the proposed wind turbines. A photo simulation was prepared from within the area of visibility as indicated by the viewshed map at the base of Meetinghouse Hill (See attached Figure SHPO-5, Antrim Grange). In the photo simulation, the wind turbines are obscured by foreground trees, vegetation and topography. The viewshed map depicts another small area of visibility in the southern portion of the district where the Bass Farm is located (See attached Antrim Center Viewshed Map). The trees throughout the district are a mix of deciduous and coniferous. While portions of the turbines may be visible from areas within the historic district, the turbines will not be visible from the majority of the district due to the vegetative groundcover, topography, presence of other buildings, and the intervening distance between the nearest turbine (2.5 miles) and the historic district. The construction of the turbines will not alter the views from within the district to the base of Meetinghouse Hill where the Antrim Grange is located and from which it derives its significance under Criterion A, nor will it impact the historic district's architectural distinctiveness. Therefore, the proposed project will not introduce visual, atmospheric, or audible elements that will not diminish the integrity of setting or alter the character-defining features of the Antrim Center Historic District.</p>
<p>(vi) Neglect of a property which causes its deterioration, except where such neglect and deterioration are recognized qualities of a property or religious and cultural significance to an Indian tribe or Native Hawaiian organization; and</p>	<p>The proposed project will not result in the neglect of the historic district.</p>
<p>(vii) Transfer, lease, or sale of property out of Federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property's historic significance.</p>	<p>The proposed project will not result in the transfer, lease, or sale of the historic district or any of the properties contained therein.</p>
<p>(viii) OTHER:</p>	
<p>RECOMMENDED FINDING</p>	<p>The proposed project will have <i>No Adverse Effect</i> on the Antrim Center Historic District as it does not have the</p>

	potential to alter, either directly or indirectly, any of the characteristics that qualify the historic district for inclusion in the National Register in a manner that would diminish the integrity of the historic district and its ability to convey its significance under Criteria A and C.
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References

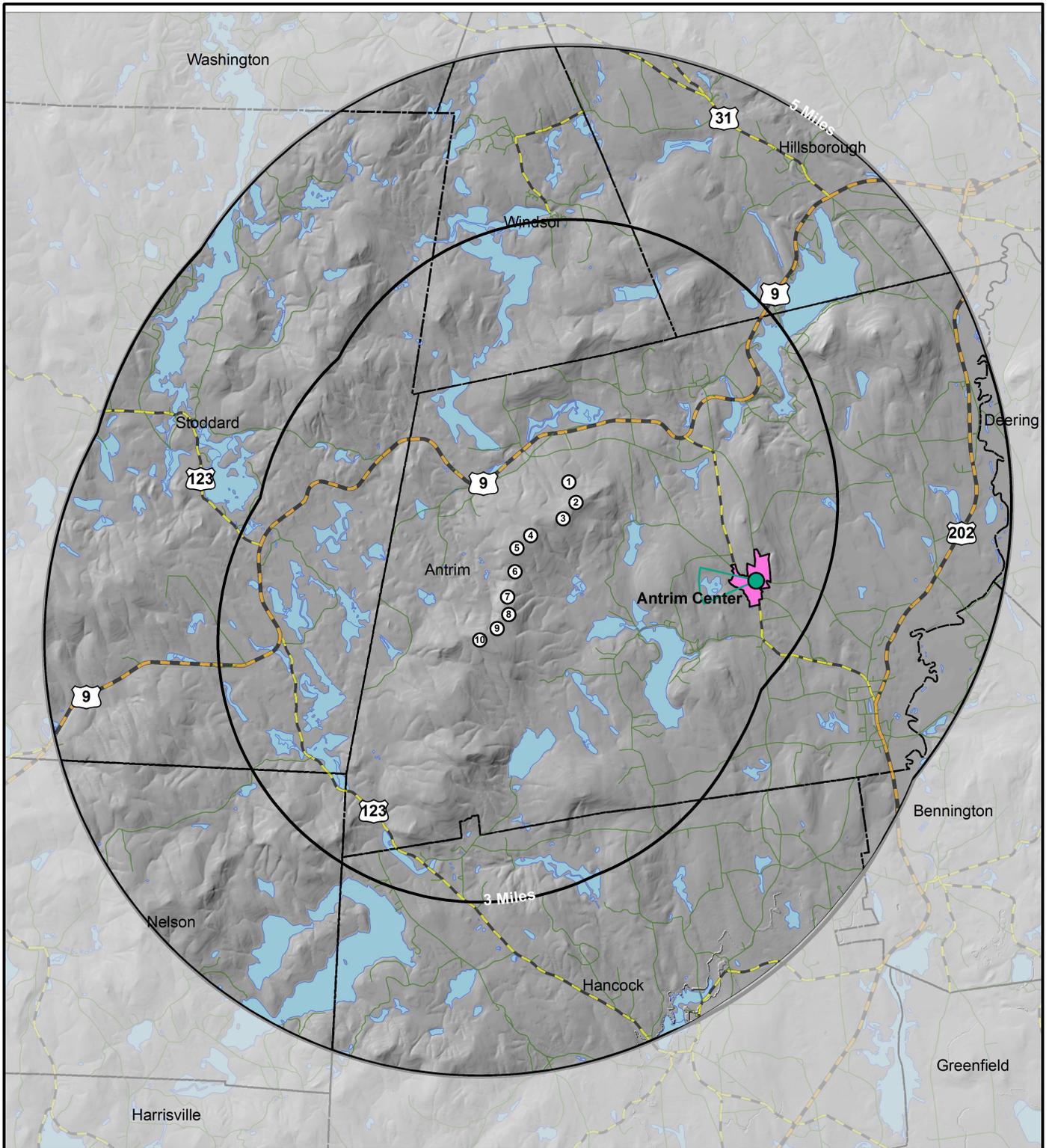
Epsilon Associates, Inc.

2011 Sound Level Assessment Report, Antrim Wind Energy Project, Antrim, New Hampshire. Epsilon Associates, Inc., Maynard, Massachusetts.

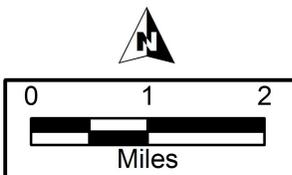
Saratoga Associates

2011 Antrim Wind Energy Project Visual Impact Analysis. Saratoga Associates; Saratoga Springs, New York.

Antrim Center Historic District Photosimulation Location Map



-  Towns
-  AWE Eligible Resource
-  Proposed Turbine
-  SHPO Photosim Point
-  Photo Direction





Existing Condition

FIGURE SHPO-5



Photo Simulation
Antrim Grange
Town of Antrim



Proposed Condition

FIGURE SHPO-5



Photo Simulation
Antrim Grange
Town of Antrim



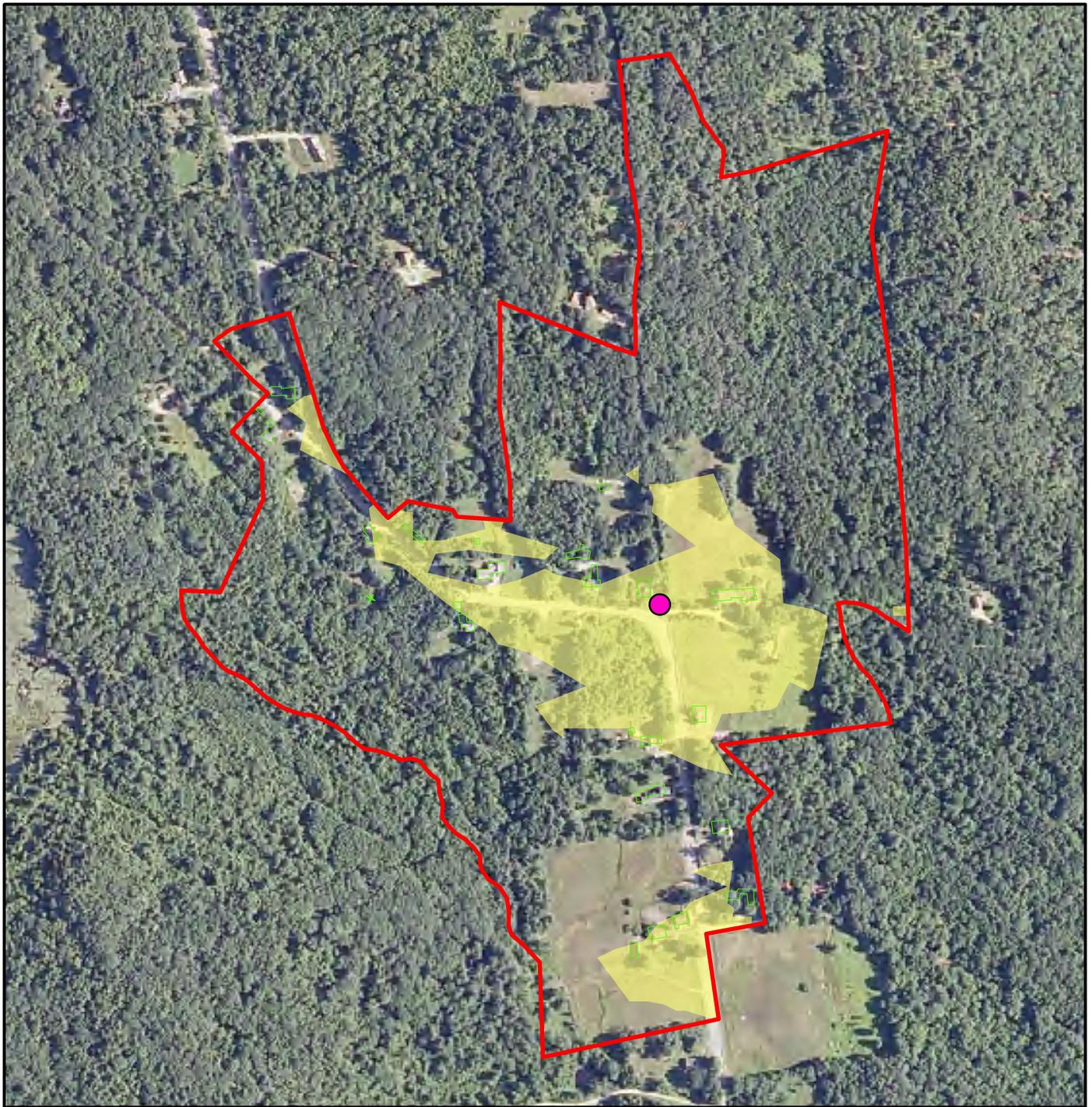
Proposed Condition - Annotated

FIGURE SHPO-5

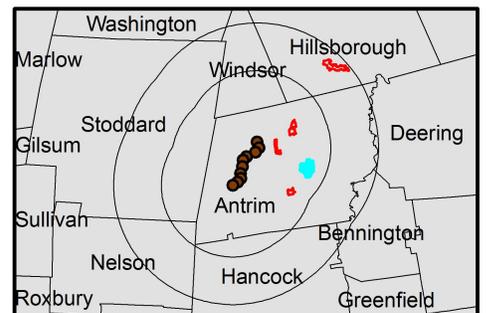
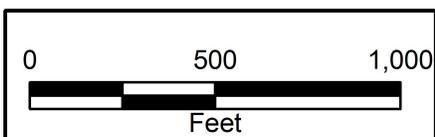


Photo Simulation
Antrim Grange
Town of Antrim

Antrim Center Historic District Viewshed Map



-  AWE Eligible Resource
-  SHPO Photosim Point
-  Project Visibility
-  Structure Outlines



**HISTORIC PROPERTY/PROPERTIES AFFECTED TABLE
RESULTS OF EFFECT EVALUATION FOR
Dodge Family Farm**

Significance (including Criteria): The Dodge Family Farm was determined eligible for the National Register of Historic Places (National Register) and New Hampshire State Register of Historic Places (State Register) in 2012 under Criterion A in the area of Agriculture as a local example of an average farm. The Dodge Family Farm was started by Amos Dodge circa 1816 and reached 150 acres in size by 1850. Between 1854 and 1858, his son, Amos Dodge Jr., a carpenter by trade, erected the connected farmhouse, fronted by a Greek Revival detailed “big house.” The property as a whole retains integrity of location, setting, association and feeling which conveys its association as a local example of an average farm in Antrim. Character-defining features include the connected farmhouse and associated outbuildings as well as surrounding acreage, all of which support integrity of setting and design as an average nineteenth-century farm in Antrim.

NR Boundary (description/justification): The National Register boundary consists of the property lines for tax parcel 14 on tax map 221 (2007) which comprise the current extent of the property (See boundary as shown on attached Dodge Family Farm Viewshed Map). The boundary includes the connected farmhouse, outbuildings, and the current associated acreage.

Individual Properties

NR SR

- Eligible (district N/A)
- Eligible, also in district
- Eligible, only in district
- Listed in the NRHP
- Not evaluated for individual eligibility

Districts

NR SR

- Eligible
- Not eligible
- Listed in the NRHP
- Not evaluated as a district

DEFINITION OF EFFECT

An effect may occur when there is alteration to the characteristics of a historic property qualifying it for inclusion in or eligible for the National Register as defined in Section 800.16(1).

EVALUATION

The characteristics that qualify the Dodge Family Farm for the National Register may be affected by the construction of the proposed project.

RECOMMENDED FINDING

The construction of the proposed project will have an *Effect* on the Dodge Family Farm because it has the potential to alter characteristics that qualify the property for inclusion in the National Register. Antrim Wind Energy is proposing to construct a total of 10 wind turbines located on the Tuttle Hill and Willard Mountain ridgelines located west and southwest of the Dodge Family Farm. The wind turbines have the potential to be visible from within the Dodge Family Farm’s boundaries and alter its setting, which is one of the characteristics that qualify the property for inclusion on the National Register. Pursuant to 36 CFR § 800.11(e), the Criteria of Adverse Effect must be applied.

APPLICATION OF THE CRITERIA OF ADVERSE EFFECT FOR Dodge Family Farm

Significance (including Criteria): The Dodge Family Farm was determined eligible for the National Register of Historic Places (National Register) and New Hampshire State Register of Historic Places (State Register) in 2012 under Criterion A in the area of Agriculture as a local example of an average farm. The Dodge Family Farm was started by Amos Dodge circa 1816 and reached 150 acres in size by 1850. Between 1854 and 1858, his son, Amos Dodge Jr., a carpenter by trade, erected the connected farmhouse, fronted by a Greek Revival detailed “big house.” The property as a whole retains integrity of location, setting, association and feeling which conveys its association as a local example of an average farm in Antrim. Character-defining features include the connected farmhouse and associated outbuildings as well as surrounding acreage, all of which support integrity of setting and design as an average nineteenth-century farm in Antrim.

NR Boundary (description/justification): The National Register boundary consists of the property lines for tax parcel 14 on tax map 221 (2007) which comprise the current extent of the property (see boundary as shown on attached Dodge Family Farm Viewshed Map). The boundary includes the connected farmhouse, outbuildings, and the current associated acreage.

Individual Properties

NR SR

- Eligible (district N/A)
 Eligible, also in district
 Eligible, only in district
 Listed in the NRHP
 Not evaluated for individual eligibility

Districts

NR SR

- Eligible
 Not eligible
 Listed in the NRHP
 Not evaluated as a district

CRITERIA OF ADVERSE EFFECT

An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register of Historic Places in a manner that would diminish the integrity of the property’s location, design, setting, materials, workmanship, feeling or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property’s eligibility for the National Register. Adverse Effects may include reasonably foreseeable effects caused by the undertaking that may occur late in time, be farther removed in distance or be cumulative.

Example of Adverse Effects, pursuant to Section 800.5(a)(2)	Evaluation
Adverse effects on historic properties include, but are not limited to:	
(i) Physical destruction of or damage to all or part of the property;	The nearest of the 10 wind turbines proposed as part of the Antrim Wind Energy project will be located approximately 0.75-miles west of the Dodge Family Farm. Therefore, the proposed project will not result in the physical destruction of or damage to all or part of the property.
(ii) Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation and provision of handicapped access, that is not consistent with the	The proposed project will not involve alteration of the property that is inconsistent with the Secretary’s Standards.

Secretary's Standards for the Treatment of Historic Properties (36 CFR§68) and applicable guidelines;	
(iii) Removal of the property from its historic location;	The proposed project will not involve the removal of the property from its historic location.
(iv) change of the character of the property's use or of physical features within the property's setting that contribute to its historic features;	The proposed project will not result in a change of the character of the property's use or of physical features within its setting that contribute to its significance. The proposed wind turbines will be located approximately 0.75-miles west of the Dodge Family Farm and will not alter the views to and from the connected farmhouse and surrounding acreage, from which it derives its significance under Criterion A.
(v) Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features;	A total of 10 wind turbines will be constructed on the Tuttle Hill and Willard Mountain ridgelines located west of the Dodge Family Farm. The nearest turbine to the property (turbine number 2) is located approximately 0.75 miles to the west (see attached Dodge Family Farm Photosimulation Location Map). A comprehensive sound level assessment was conducted for the Antrim Wind Energy Project by Epsilon Associates, Inc. in November 2011. Sound levels due to wind turbine operation are expected to be less than 45 dBA at all residences within the project area, including historic properties. These sound levels are expected to meet previously approved noise conditions from the New Hampshire Site Evaluation Committee, the World Health Organization's 45-dBA nighttime guideline for residential locations, and the US EPA guideline of 48.6 dBA. Calculations based on the viewshed map prepared by Saratoga Associates indicate that the turbines may be visible from 12.50% of the approximate 36-acre property (see attached Dodge Family Farm Viewshed Map). The viewshed map indicates that visibility of the turbines at the Dodge Family Farm is concentrated in the southern half of the property. A photo simulation was prepared from within the area of visibility as indicated by the viewshed map (See attached Figure SHPO-4, Dodge Farm). In the photo simulation, the wind turbines are almost completely obscured by trees and vegetation. The trees throughout the property are a mix of deciduous and coniferous. While portions of the turbines (mainly the blades) may be visible from a small portion of the Dodge Family Farm, the turbines will not be visible from the majority of the property due to topography, the vegetative groundcover and the intervening distance between the nearest turbine (.75 miles) and the property. The construction of the turbines will not alter the viewshed to and from the connected farmhouse and surrounding acreage, from which the property derives its significance under Criterion A. Therefore, the proposed project will not introduce visual, atmospheric, or audible elements that will not diminish the integrity of setting of the Dodge Family Farm or alter the character-defining features of the

	property.
(vi) Neglect of a property which causes its deterioration, except where such neglect and deterioration are recognized qualities of a property or religious and cultural significance to an Indian tribe or Native Hawaiian organization; and	The proposed project will not result in the neglect of the property.
(vii) Transfer, lease, or sale of property out of Federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property's historic significance.	The proposed project will not result in the transfer, lease, or sale of the property.
(viii) OTHER:	
RECOMMENDED FINDING	The proposed project will have <i>No Adverse Effect</i> on the Dodge Family Farm as it does not have the potential to alter, either directly or indirectly, any of the characteristics that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property and its ability to convey its significance under Criterion A.

References

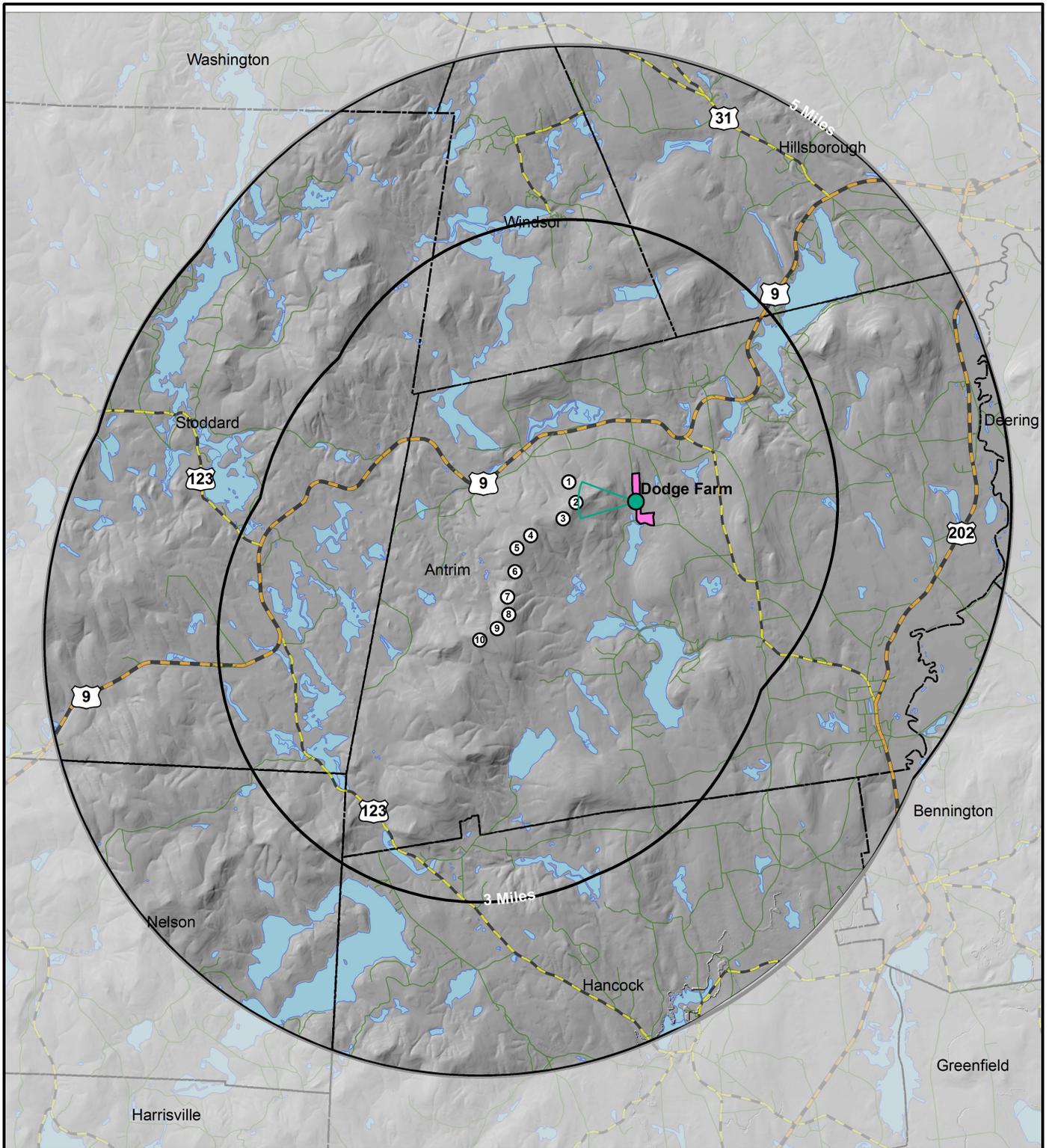
Epsilon Associates, Inc.

2011 Sound Level Assessment Report, Antrim Wind Energy Project, Antrim, New Hampshire. Epsilon Associates, Inc., Maynard, Massachusetts.

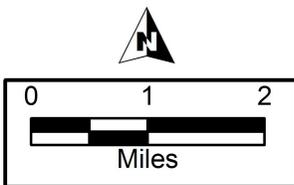
Saratoga Associates

2011 Antrim Wind Energy Project Visual Impact Analysis. Saratoga Associates; Saratoga Springs, New York.

Dodge Family Farm Photosimulation Location Map



-  Towns
-  AWE Eligible Resource
-  Proposed Turbine
-  SHPO Photosim Point
-  Photo Direction





Existing Condition

FIGURE SHPO-4



Photo Simulation
Dodge Farm
Town of Antrim

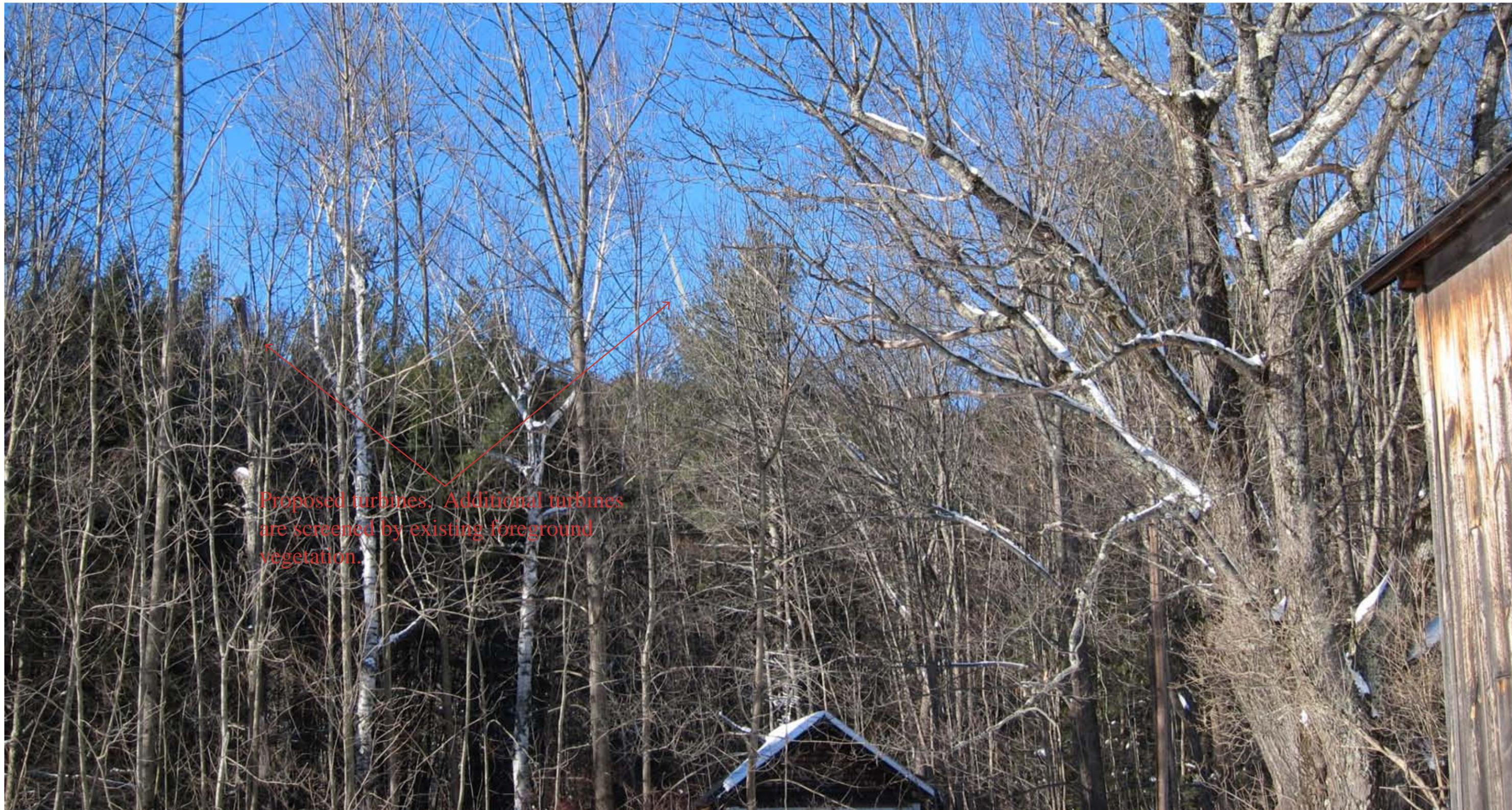


Proposed Condition

FIGURE SHPO-4



Photo Simulation
Dodge Farm
Town of Antrim



Proposed turbines. Additional turbines are screened by existing foreground vegetation.

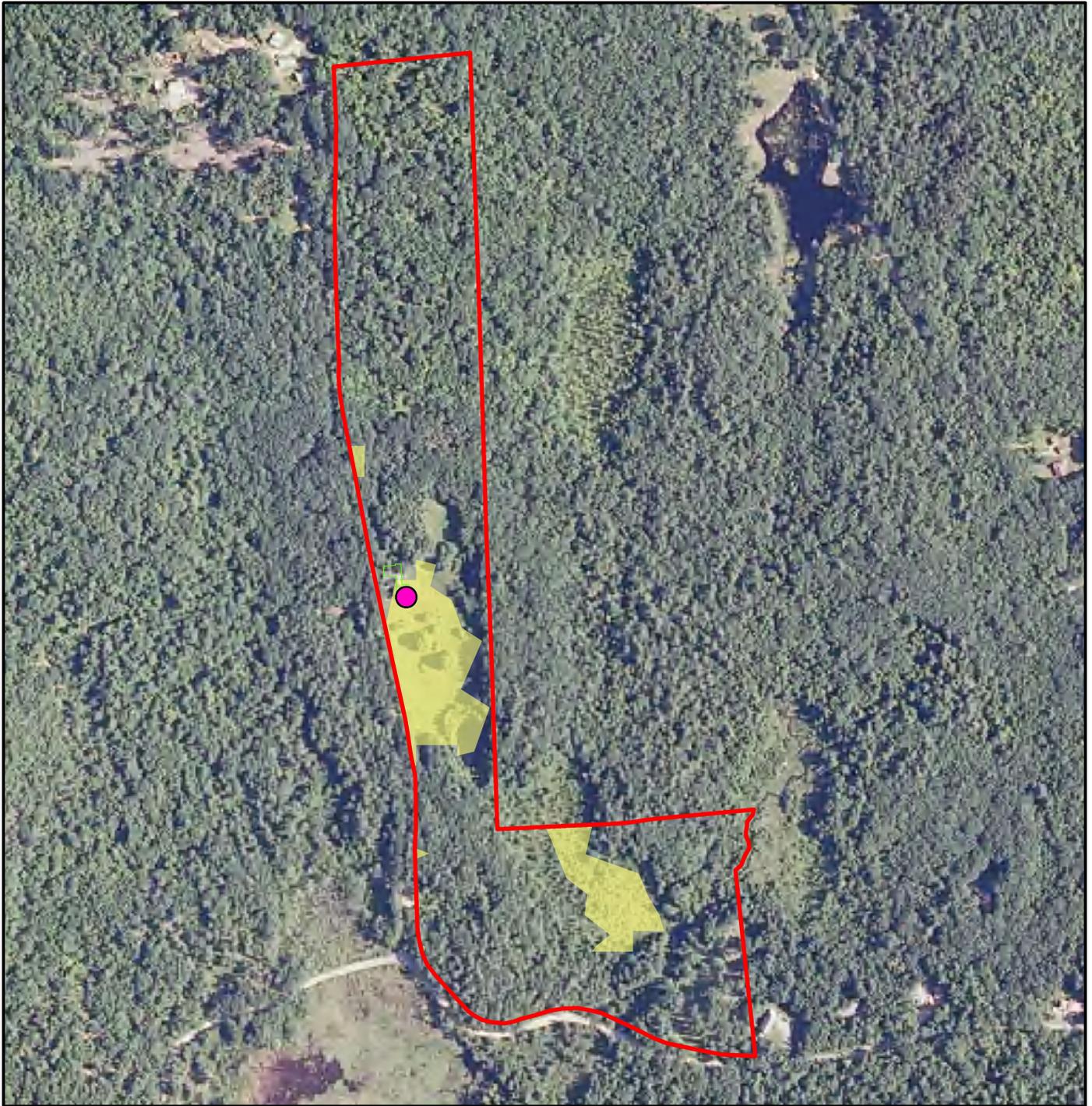
Proposed Condition - Annotated

FIGURE SHPO-4

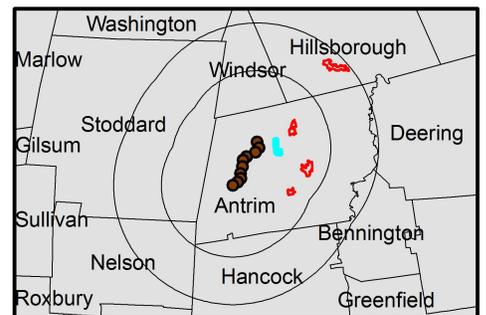
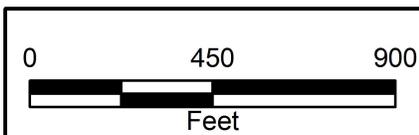


Photo Simulation
Dodge Farm
Town of Antrim

Dodge Family Farm Viewshed Map



-  AWE Eligible Resource
-  SHPO Photosim Point
-  Project Visibility
-  Structure Outlines



**HISTORIC PROPERTY/PROPERTIES AFFECTED TABLE
RESULTS OF EFFECT EVALUATION FOR
Hillsborough Lower Village Historic District**

Significance (including Criteria): The Hillsborough Lower Village Historic District was determined eligible for the National Register of Historic Places (National Register) and New Hampshire State Register of Historic Places (State Register) in 2006, under Criterion A for its significance related to the development of water-powered industries along the North Branch and its development as a village along a major transportation route. Character-defining features under Criteria A include the viewsheds and location to and from the district along the Second New Hampshire Turnpike, Sawmill Road, and the North Branch, from which the district derives its significance. The district was also determined eligible under Criterion C for its collection of diverse architectural styles. Character-defining features under Criteria C include materials, design, and workmanship of the buildings that comprise the architecture of the historic district.

NR Boundary (description/justification): The Historic District Area Form prepared for the Hillsborough Lower Village (November 2006) includes only a map depicting the boundary of the village; a written boundary description or justification was not included. The boundary encompasses a corridor which roughly begins just southeast of the intersection of Sulphur Hill Road and the Second New Hampshire Turnpike. The boundary continues to the southeast and includes buildings on both sides of the Second New Hampshire Turnpike, including buildings along Dam Road. At the intersection of the Second New Hampshire Turnpike and Sawmill Road, the boundary follows Sawmill Road to the east and includes buildings on both sides of the road. The boundary ends along Sawmill Road, just past its intersection with Keith Road (see boundary as shown on attached Hillsborough Lower Village Historic District Viewshed Map).

Individual Properties

NR SR

- Eligible (district N/A)
- Eligible, also in district
- Eligible, only in district
- Listed in the NRHP
- Not evaluated for individual eligibility

Districts

NR SR

- Eligible
- Not eligible
- Listed in the NRHP
- Not evaluated as a district

DEFINITION OF EFFECT

An effect may occur when there is alteration to the characteristics of a historic property qualifying it for inclusion in or eligible for the National Register as defined in Section 800.16(1).

EVALUATION

The characteristics that qualify the Hillsborough Lower Village Historic District for the National Register may be affected by the construction of the proposed project.

RECOMMENDED FINDING

The construction of the proposed project will have an *Effect* on the Hillsborough Lower Village Historic District because it has the potential to alter characteristics which qualify the district for inclusion in the National Register. Antrim Wind Energy is proposing to construct a total of 10 wind turbines located on the Tuttle Hill and Willard Mountain ridgelines located southwest of the Hillsborough Lower Village Historic District. The wind turbines have the potential to be visible from within the historic district and alter its setting, which is one of the characteristics that qualify the

historic district for inclusion on the National Register. Pursuant to 36 CFR § 800.11(e), the Criteria of Adverse Effect must be applied.

APPLICATION OF THE CRITERIA OF ADVERSE EFFECT FOR Hillsborough Lower Village Historic District

Significance (including Criteria): The Hillsborough Lower Village Historic District was determined eligible in 2006 under Criterion A for its significance related to the development of water-powered industries along the North Branch and its development as a village along a major transportation route. Character-defining features under Criteria A include the viewsheds and location to and from the district along the Second New Hampshire Turnpike, Sawmill Road, and the North Branch, from which the district derives its significance. The district was also determined eligible under Criterion C for its collection of diverse architectural styles. Character-defining features under Criteria C include materials, design, and workmanship of the buildings that comprise the architecture of the historic district.

NR Boundary (description/justification): The Historic District Area Form prepared for the Hillsborough Lower Village November of 2006 does not include a written boundary description or justification. The form does include a map with a boundary. The boundary encompasses a corridor which roughly begins just southeast of the intersection of Sulphur Hill Road and the Second New Hampshire Turnpike. The boundary continues to the southeast and included buildings on both side of the Second New Hampshire Turnpike, including buildings along Dam Road. At the intersection of the Second New Hampshire Turnpike and Sawmill Road the boundary follows Sawmill Road to the east and includes buildings of both sides of the road. The boundary ends along Sawmill Road, just past its intersection with Keith Road (see attached Hillsborough Lower Village Historic District Boundary Map).

Individual Properties

NR	SR	
<input type="checkbox"/>	<input type="checkbox"/>	Eligible (district N/A)
<input type="checkbox"/>	<input type="checkbox"/>	Eligible, also in district
<input type="checkbox"/>	<input type="checkbox"/>	Eligible, only in district
<input type="checkbox"/>	<input type="checkbox"/>	Listed in the NRHP
<input type="checkbox"/>	<input type="checkbox"/>	Not evaluated for individual eligibility

Districts

NR	SR	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Eligible
<input type="checkbox"/>	<input type="checkbox"/>	Not eligible
<input type="checkbox"/>	<input type="checkbox"/>	Listed in the NRHP
<input type="checkbox"/>	<input type="checkbox"/>	Not evaluated as a district

CRITERIA OF ADVERSE EFFECT

An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register of Historic Places in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property's eligibility for the National Register. Adverse Effects may include reasonably foreseeable effects caused by the undertaking that may occur late in time, be farther removed in distance or be cumulative.

Example of Adverse Effects, pursuant to Section 800.5(a)(2)	Evaluation
Adverse effects on historic properties include, but are not limited to:	
(i) Physical destruction of or damage to all or part of the property;	The nearest of the 10 wind turbines proposed as part of the Antrim Wind Energy project will be located approximately

	4.5-miles southwest of the historic district. Therefore, the proposed project will not result in the physical destruction of or damage to all or part of any property within the Hillsborough Lower Village Historic District.
(ii) Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation and provision of handicapped access, that is not consistent with the Secretary's Standards for the Treatment of Historic Properties (36 CFR§68) and applicable guidelines;	The proposed project will not involve alteration of the historic district that is inconsistent with the Secretary's Standards.
(iii) Removal of the property from its historic location;	The proposed project will not involve the removal of the historic district, or any properties contained within, from their historic location.
(iv) change of the character of the property's use or of physical features within the property's setting that contribute to its historic features;	The proposed project will not result in a change of the character of the historic district's use or of physical features within its setting that contribute to its significance. The proposed wind turbines will be located approximately 4.5 miles southwest of the historic district and will not alter the views to and from the district and the Second New Hampshire Turnpike, Sawmill Road, and the North Branch, from which it derives its significance under Criterion A.
(v) Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features;	A total of 10 wind turbines will be constructed on the Tuttle Hill and Willard Mountain ridgelines located southwest of the Hillsborough Lower Village Historic District. The nearest turbines to the historic district (turbines number 1 and 2) are located approximately 4.5 miles southwest of the historic district (see attached Hillsborough Lower Village Historic District Photosimulation Location Map). A comprehensive sound level assessment was conducted for the Antrim Wind Energy Project by Epsilon Associates, Inc in November of 2011. Sound levels due to wind turbine operation are expected to be less than 45 dBA at all residences, including historic properties. These sound levels are expected to meet previously approved noise conditions from the New Hampshire Site Evaluation Committee, the World Health Organization's 45-dBA nighttime guideline for residential locations, and the US EPA guideline of 48.6 dBA. The viewshed map prepared by Saratoga Associates indicates that the western 1/3 of the historic district may have visibility of at least a portion of the proposed wind turbines. The viewshed map depicts very limited visibility from the remaining 2/3, or majority of the historic district (see attached Hillsborough Lower Village Viewshed Map). Calculations based on the viewshed map indicate that the turbines may be visible from only 8.44% of the approximate 126-acre historic district. A photo simulation was prepared from within the area of visibility as indicated by the viewshed map (see attached Figure SHPO-2, Hillsborough Lower Village Historic District). In the photo simulation, the wind turbines are completely obscured by

	<p>roadside trees and vegetation. The trees throughout the district are a mix of deciduous and coniferous. While portions of the turbines may be visible from a small portion of the historic district, the turbines will not be visible from the majority of the district due to the vegetative groundcover, presence of other buildings, and the intervening distance between the nearest turbine (4.5 miles) and the historic district. The construction of the turbines will not alter the viewshed to and from the historic district and North Branch, from which it derives its significance under Criterion A nor will it impact the historic district's architectural distinctiveness. Therefore, the proposed project will not introduce visual, atmospheric, or audible elements that will not diminish the integrity of setting of the Hillsborough Lower Village Historic District or alter character-defining features that contribute to the historic district's significance under Criteria A and C.</p>
<p>(vi) Neglect of a property which causes its deterioration, except where such neglect and deterioration are recognized qualities of a property or religious and cultural significance to an Indian tribe or Native Hawaiian organization; and</p>	<p>The proposed project will not result in the neglect of the historic district.</p>
<p>(vii) Transfer, lease, or sale of property out of Federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property's historic significance.</p>	<p>The proposed project will not result in the transfer, lease, or sale of the historic district or any of the properties contained therein.</p>
<p>(viii) OTHER:</p>	
<p>RECOMMENDED FINDING</p>	<p>The proposed project will have <i>No Adverse Effect</i> on the Hillsborough Lower Village Historic District as it does not have the potential to alter, either directly or indirectly, any of the characteristics that qualify the historic district for inclusion in the National Register in a manner that would diminish the integrity of the historic district and its ability to convey its significance under Criteria A and C.</p>

References

A.S. Rex Historic Consultants

2006 Project Area Form for Hillsborough Lower Village Historic District. On file at the New Hampshire Division of Historical Resources, Concord, New Hampshire.

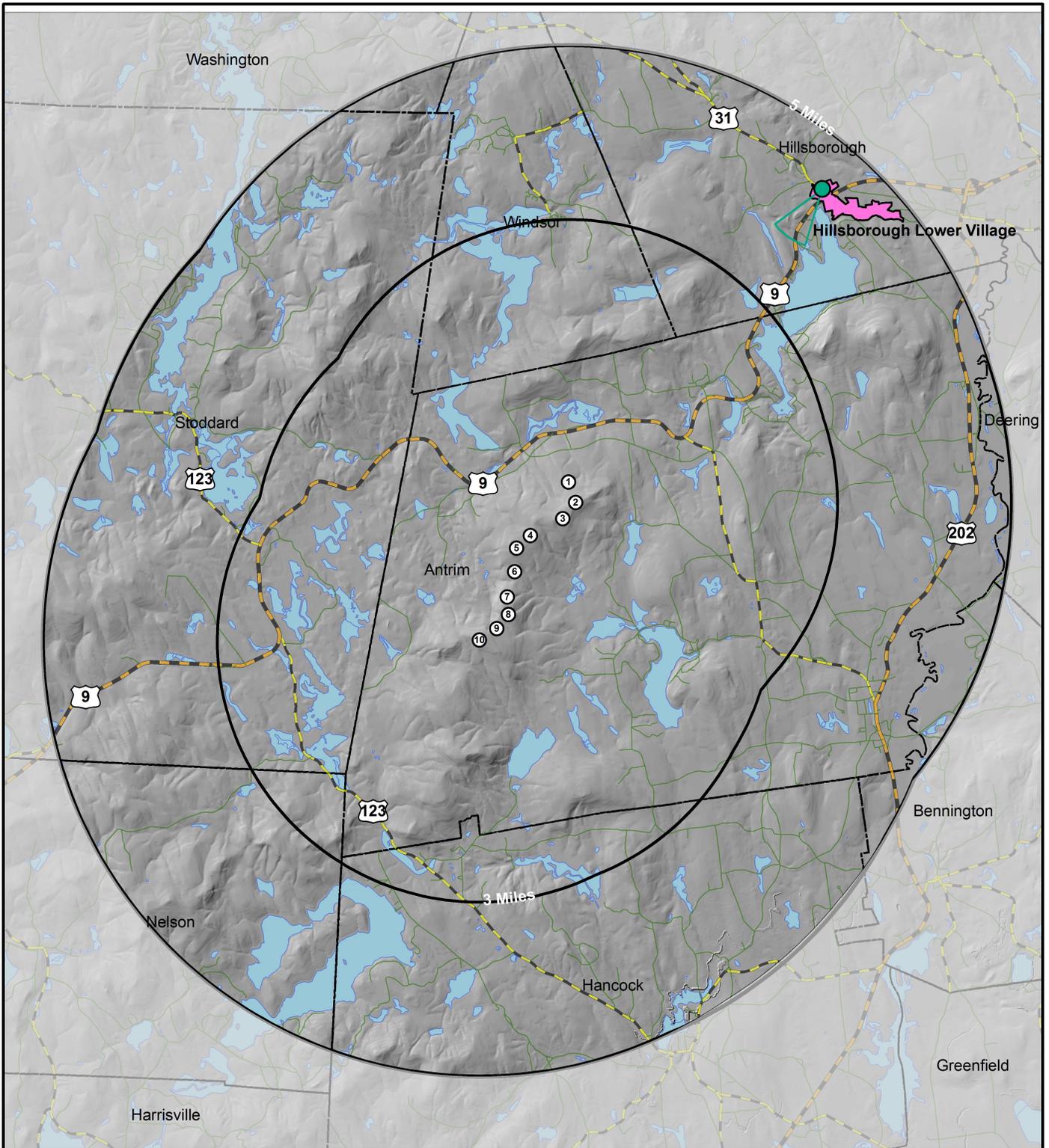
Epsilon Associates, Inc.

2011 Sound Level Assessment Report, Antrim Wind Energy Project, Antrim, New Hampshire. Epsilon Associates, Inc., Maynard, Massachusetts.

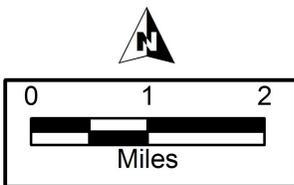
Saratoga Associates

2011 Antrim Wind Energy Project Visual Impact Analysis. Saratoga Associates; Saratoga Springs, New York.

Hillsborough LV Historic District Photosimulation Location Map



-  Towns
-  AWE Eligible Resource
-  Proposed Turbine
-  SHPO Photosim Point
-  Photo Direction





Existing Condition



FIGURE SHPO-2

Photo Simulation
Hillsborough Lower Village Historic District
Town of Hillsborough