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December 14, 2016

VIA ELECTRONIC MAIL

New Hampshire Site Evaluation Committee Pamela G. Monroe, Administrator 21 South Fruit Street, Suite 10 Concord, NH 03301

Re: NH Site Evaluation Committee Docket No. 2015-02: Application of Antrim Wind Energy, LLC – FAA Approval of Night Time Lighting

Dear Ms. Monroe:

Please find enclosed the Federal Aviation Administration's approval of Antrim Wind Energy, LLC's request to utilize an Aircraft Detection Lighting System to operate the recommended lighting for all nine of the proposed turbines and the MET tower.

Please contact me directly should you have any questions regarding this documentation.

Very truly yours,

Repecca 3. Walkley

Rebecca S. Walkley

RS3:

Enclosures



Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

**** MARKING & LIGHTING RECOMMENDATION ****

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE
Location:	Antrim, NH
Latitude:	43-04-03.41N NAD 83
Longitude:	72-00-28.14W
Heights:	1431 feet site elevation (SE)
	489 feet above ground level (AGL)
	1920 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

This evaluation concerns the effect of the marking/lighting changes on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6204-OE.

Signature Control No: 303082966-312545130 Bill Kieffer

(MAL-WT)

Attachment(s) Map(s)

cc: FCC

Sectional Map for ASN 2016-WTE-6204-OE





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

**** MARKING & LIGHTING RECOMMENDATION ****

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 2
Location:	Antrim, NH
Latitude:	43-03-51.34N NAD 83
Longitude:	72-00-22.29W
Heights:	1743 feet site elevation (SE)
	489 feet above ground level (AGL)
	2232 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

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If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6205-OE.

Signature Control No: 303082969-312545125

(MAL -WT)

Attachment(s) Map(s)

Bill Kieffer Specialist

cc: FCC





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

** MARKING & LIGHTING RECOMMENDATION **

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 3
Location:	Antrim, NH
Latitude:	43-03-41.26N NAD 83
Longitude:	72-00-32.62W
Heights:	1758 feet site elevation (SE)
	489 feet above ground level (AGL)
	2247 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

This evaluation concerns the effect of the marking/lighting changes on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

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If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6206-OE.

Signature Control No: 303082972-312545124 Bill Kieffer

(MAL-WT)

Attachment(s) Map(s)

cc: FCC

Sectional Map for ASN 2016-WTE-6206-OE





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

** MARKING & LIGHTING RECOMMENDATION **

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 4
Location:	Antrim, NH
Latitude:	43-03-31.43N NAD 83
Longitude:	72-00-59.25W
Heights:	1682 feet site elevation (SE)
	489 feet above ground level (AGL)
	2171 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

This evaluation concerns the effect of the marking/lighting changes on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6208-OE.

Signature Control No: 303082978-312545131

(MAL -WT)

Attachment(s) Map(s)

Bill Kieffer Specialist

cc: FCC





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

**** MARKING & LIGHTING RECOMMENDATION ****

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 5
Location:	Antrim, NH
Latitude:	43-03-23.84N NAD 83
Longitude:	72-01-10.20W
Heights:	1726 feet site elevation (SE)
	489 feet above ground level (AGL)
	2215 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

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If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6209-OE.

Signature Control No: 303082981-312545129 Bill Kieffer

(MAL -WT)

Attachment(s) Map(s)

cc: FCC

Sectional Map for ASN 2016-WTE-6209-OE





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

**** MARKING & LIGHTING RECOMMENDATION ****

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 6
Location:	Antrim, NH
Latitude:	43-03-09.66N NAD 83
Longitude:	72-01-11.94W
Heights:	1504 feet site elevation (SE)
	489 feet above ground level (AGL)
	1993 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

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Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6210-OE.

Signature Control No: 303082984-312545127 Bill Kieffer

(MAL -WT)

Attachment(s) Map(s)

cc: FCC





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

** MARKING & LIGHTING RECOMMENDATION **

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 7
Location:	Antrim, NH
Latitude:	43-02-54.23N NAD 83
Longitude:	72-01-17.79W
Heights:	1676 feet site elevation (SE)
	489 feet above ground level (AGL)
	2165 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

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Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6211-OE.

(MAL-WT)

Signature Control No: 303082987-312545126

Bill Kieffer Specialist

Attachment(s) Map(s)

cc: FCC





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

**** MARKING & LIGHTING RECOMMENDATION ****

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 8
Location:	Antrim, NH
Latitude:	43-02-43.77N NAD 83
Longitude:	72-01-16.79W
Heights:	1700 feet site elevation (SE)
	489 feet above ground level (AGL)
	2189 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

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Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6212-OE.

Signature Control No: 303082990-312545132 Bill Kieffer

(MAL -WT)

Attachment(s) Map(s)

cc: FCC





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801

**** MARKING & LIGHTING RECOMMENDATION ****

The Federal Aviation Administration has completed an evaluation of your request concerning:

Structure:	Lighting Study for Wind Turbine Wind Turbine AWE 9
Location:	Antrim, NH
Latitude:	43-02-35.31N NAD 83
Longitude:	72-01-26.37W
Heights:	1667 feet site elevation (SE)
	447 feet above ground level (AGL)
	2114 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

Your request for consideration to utilize an Aircraft Detection Lighting System to operate the recommended lighting is approved provided that the equipment meets established technical standards.

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Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6213-OE.

Signature Control No: 303082993-312545128 Bill Kieffer

(MAL -WT)

Attachment(s) Map(s)

cc: FCC





Issued Date: 12/14/2016

Jack Kenworthy Antrim Wind LLC 155 Fleet Street Portsmouth, NH 03801 ** MARKING & LIGHTING RECOMMENDATION **

The Federal Aviation Administration has completed an evaluation of your request concerning:

Lighting Study for Met Tower Met Tower Antrim MET Tower
Antrim, NH
43-03-39.63N NAD 83
72-00-43.18W
1721 feet site elevation (SE)
329 feet above ground level (AGL)
2050 feet above mean sea level (AMSL)

Based on this evaluation, we have no objection to the change provided the structure is marked/lighted in accordance with FAA Advisory Circular 70/7460-1, L Change 1, Obstruction Marking and Lighting, paint/red lights - Chapters 3(Marked),4,5(Red),&12.

So that aeronautical charts and records can be updated, it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed when the new system is installed and operational.

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If we can be of further assistance, please contact our office at (816) 329-2526. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-6207-OE.

(MAL-WT)

Signature Control No: 303082975-312546019 Bill Kieffer Specialist

Attachment(s) Additional Information Map(s)

cc: FCC

Page 2 of 4

Additional information for ASN 2016-WTE-6207-OE

Note:

As a condition to this Determination, the structure should be obstruction marked as noted below.

Painting.

The meteorological evaluation tower (MET) should be painted in accordance with the criteria contained in FAA Advisory Circular 70/7460-1L, Chapter 3, paragraphs 3.1 through 3.4, specifically, with alternate bands of aviation orange and white paint. In addition, paragraph 3.5 states that all markings should be replaced when faded or otherwise deteriorated.

High-Visibility Sleeves.

It is recommended that several high-visibility sleeves be installed on the MET's outer guy wires. One highvisibility sleeve should be installed on each guy wire, as close to the anchor point as possible, but at a height well above the crop or vegetation canopy. A second sleeve should be installed on the same outer guy wires midway between the location of the lower sleeve and the upper attachment point of the guy wire to the MET. The use of sleeves should not impact the placement of spherical marker balls.

Spherical Markers.

It is also recommended that high-visibility aviation orange spherical marker (or cable) balls be attached to the guy wires. The FAA recommends a total of 8 high visibility spherical marker (or cable balls) of aviation orange color attached to the guy wires; 4 marker balls should be attached to guy wires at the top of the tower no further than 15 feet from the top wire connection to the tower, and 4 marker balls at or below the mid point of the structure on the outer guy wires.

The FAA recognizes that various weather conditions and manufacturing placement standards may affect the placement and use of high-visibility sleeves and/or spherical markers. Thus, some flexibility is allowed when determining sleeve length and marker placement on METs.

