



MARBLE RIVER
WIND FARM®

11 Marble River Way
Churubusco, NY 12923

518.497.0033 phone
518.497.0001 fax

A wind farm owned by Marble River, LLC

RECEIVED
PUBLIC SERVICE
COMMISSION
EXEC-FILES-ALBANY
2013 JUL 12 PM 3:01

July 8, 2013

VIA FEDERAL EXPRESS NO. 7961 7280 9934

NYS Department of Public Service
Attn: DPS Staff, Bulk Electric Systems Section
3 Empire State Plaza
Albany, New York 12223

**RE: Marble River Wind Farm – Monthly Turbine Blade Inspection Report
Case No. 07-E-1343**

Dear DPS Staff:

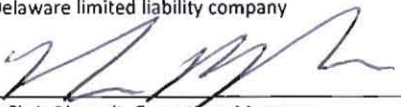
On behalf of Marble River, LLC, I have enclosed copies of the blade inspection reports for all blades inspected in June 2013 for submission to your office pursuant to Clause 29 of your *Order Granting Amendment to Certificate of Public Convenience and Necessity*, issued and effective June 21, 2011.

Following a storm in June, all turbines blades were examined to check for possible lightning strikes. As a result of those examinations, some blades were inspected more closely to determine if they were damaged. Those inspections determined that there was not any structural damage nor was there an un-safe change in the performance of the turbines.

If you need anything further regarding this requirement, please contact the undersigned at the telephone number listed above.

Respectfully,

MARBLE RIVER, LLC,
a Delaware limited liability company



By: Chris Blauvelt, Operations Manager

Enclosures

EDP Renewables North America LLC

Corporate Headquarters, 808 Travis Street, Suite 700, Houston, TX 77002 T: 713.265.0350 F: 713.265.0365

www.edpr.com



Component Inspection Report

**When creating a new CIR:
Not for reuse - Use only this template from scratch!**

Blade

0.10 Wind Turbine Data

0.10.010 Report Type	Inspection
0.10.030 CIM Case Number	-1
0.10.040 Reason for service	
0.10.050 Turbine Number	46709
0.10.060 Country	United states
0.10.070 Site name (ZIP code if appropriate)	EDPR-Marble River 2012
0.10.080 Turbine type	V112
0.10.090 Rotor diameter	112M
0.10.100 Nominal power	3000kW
0.10.110 Voltage	690V
0.10.120 Power regulation	GRST (Grid...
0.10.130 Frequency	50Hz
0.10.140 Small generator	0kW
0.10.150 Temperature variant	Standard
0.10.160 MK version	MK0
0.10.170 Onshore / Offshore	Onshore
0.10.180 Manufacturer	Vestas
0.10.200 Local turbine ID	0069
0.10.220 Run status at arrival	Run
0.10.230 Commissioning date (yyyy-mm-dd)	2012-09-21
0.10.240 Installation date of failed component (yyyy-mm-dd)	2012-09-21
0.10.260 Failure date (yyyy-mm-dd)	Choose failure date
0.10.250 Inspection date (yyyy-mm-dd)	2013-06-26
0.10.270 Service report number	51943481
0.10.280 Notification number	
0.10.290 Service engineer	JAMGS
0.10.300 Run (hrs)	6685
0.10.310 Generator 1 (hrs)	5831
0.10.320 Generator 2 (hrs)	Enter generator 2 run hours
0.10.330 Total production (kWh)	6336004
0.10.340 Run status after inspection	Run

If a component has failed, always select "Failure" as primary Report Type.

About turbine data:

Country, site name and wind turbine parameters are filled out automatically once the CIR is submitted.

0.20 Description

0.20.010 Vestas Item Number	78000007
0.20.020 Quantity of failed components/problems	1
0.20.040 Description	V-112 blade

0.20.050 Description of any consequential problems/damage

0.20.060 Additional Information

Cat 2 damage- -no repairs required at this time.

0.20.065 SBU Recommendation

0.20.030 Alarm Log Number

1.10 Blade Data

1.10.000 Blade Manufacturer

Vestas Blades

1.10.020 Blade Length (m)

55

1.10.030 Blade Color

Ral 9010 White

1.10.040 Blade Serial No.

138023

1.10.050 Pictures of the damage included

Yes

Help for blade serial number:
Vestas blade numbers:

Is either a 4-6 digit number, i.e. 2354 or 35854
If the whole batch number is noted it is a 6 digit number-
warehouse letter and a 4-6 digit number, i.e.
761003WHBY35964

Old NEGMicon blades
A 4 digit number

LM blades
A letter followed by a number, i.e. E-1234

Insert other blades in sel..

1.20 Blade Inspection Data

1.20.010 Damage identified ☒

Blade Damage

1.20.020 Damage placement

External

1.20.030 Damage Type

Lightning hit - receptor → comment

1.20.040 Radius (m)

55

1.20.050 Blade edge

Tip

1.20.060 Description

Lightning damage to the blade where current entered the copper tip

1.20.070 Picture no.

4

Insert more blade damages .

Fault Code

1.20.080 Overall blade condition

2

Help for Overall blade condition:
*See INS 0014-3811 in DMS for more information

1: Cosmetic No intervention required.

1.20.090 Cause

After Commissioning

2: Similar to cosmetic, intervention is done only if there are other problems in the blade or turbine.

1.20.100 Type

Lightning hit - receptor - comment

3: Damage is not serious Intervention is done during planned inspection of the turbine. Blade must be repaired within 6 months. A modified timeframe for repair may be specified by blade specialist.

1.20.110 Area

Tip End

4: Serious damage, but not threatening continued turbine operation within next 3 months. Blade must be repaired within 3 months or during next planned turbine inspection, whichever occurs first. A modified timeframe for repair may be specified by blade specialist.

5: Very serious damage. Immediate intervention required to prevent further damage to blade, turbine or surrounding area.

1.30 Test of Lightning System

1.30.010 VT number

1.30.020 Calibration date

└

1.30.030
Receptor
Leeward's
side

Pre- Repair

Post- Repair

Tip Type value (m Ohm)

Type value (m Ohm)

2	Type value (m Ohm)	Type value (m Ohm)
3	Type value (m Ohm)	Type value (m Ohm)
4	Type value (m Ohm)	Type value (m Ohm)
5	Type value (m Ohm)	Type value (m Ohm)

1.30.040
Receptor
Windward's
side

Pre- Repair

Post- Repair

Tip	Type value (m Ohm)	Type value (m Ohm)
2	Type value (m Ohm)	Type value (m Ohm)
3	Type value (m Ohm)	Type value (m Ohm)
4	Type value (m Ohm)	Type value (m Ohm)
5	Type value (m Ohm)	Type value (m Ohm)

1.40 Pictures

Attached pictures are automatically resized to a maximum of 1152*864 pixels (max. 400 KB per picture) in compressed jpeg format.

Please notice that you can insert max. 20 pictures per report.

Remember to use photo card KS.959457

1.40.010 Blade Type Plate

☒ Not possible, explanation required:
Sever storms throughout the week

Click here to insert a picture

1.40.020 Additional pictures

☐ No pictures, explanation required:



Lightning damaged



Lightning damaged



Lightning damaged



Lightning damaged

Click here to insert a picture

Comments regarding picture

Click here to insert a picture

Comments regarding picture

Insert more pictures .

[View full size images](#)

8.10 CIR Version Information (updated automatically)

8.10.010 Version number 2

8.10.020 CIR ID 158615

8.10.030 1. notification has been sent ☒

8.10.040 2. notification has been sent ☐

8.10.050 Approval status Approved by MATRI on 28-06-2013

8.10.050 Edited by

MATRI

2013-06-28

JAMGS

2013-06-27

inserted additional information

Component Inspection Report

When creating a new CIR:
Not for reuse - Use only this template from scratch!

Blade

0.10 Wind Turbine Data

0.10.010 Report Type	Inspection
0.10.030 CIM Case Number	- 1
0.10.040 Reason for service	Blade lightning strike
0.10.050 Turbine Number	46654
0.10.060 Country	United states
0.10.070 Site name (ZIP code if appropriate)	EDPR-Marble River 2012
0.10.080 Turbine type	V112
0.10.090 Rotor diameter	112M
0.10.100 Nominal power	3000kW
0.10.110 Voltage	690V
0.10.120 Power regulation	GRST (Grid...
0.10.130 Frequency	50Hz
0.10.140 Small generator	0kW
0.10.150 Temperature variant	Standard
0.10.160 MK version	MK0
0.10.170 Onshore / Offshore	Onshore
0.10.180 Manufacturer	Vestas
0.10.200 Local turbine ID	0014
0.10.220 Run status at arrival	Run
0.10.230 Commissioning date (yyyy-mm-dd)	2012-09-21
0.10.240 Installation date of failed component (yyyy-mm-dd)	Choose inst Not known
0.10.260 Failure date (yyyy-mm-dd)	2013-06-25
0.10.250 Inspection date (yyyy-mm-dd)	2013-06-26
0.10.270 Service report number	51942169 MAM/
0.10.280 Notification number	
0.10.290 Service engineer	chcbb
0.10.300 Run (hrs)	6524
0.10.310 Generator 1 (hrs)	5750
0.10.320 Generator 2 (hrs)	Enter generator 2 run hours
0.10.330 Total production (kWh)	6079894
0.10.340 Run status after inspection	Run

If a component has failed, always select "Failure" as primary Report Type.

About turbine data:

Country, site name and wind turbine parameters are filled out automatically once the CIR is submitted.

0.20 Description

0.20.010 Vestas Item Number	78000007
0.20.020 Quantity of failed components/problems	1
0.20.040 Description	Blade

0.20.050 Description of any consequential problems/damage	Blade tip burnt
0.20.060 Additional Information	Cat 2 damage- -no repair required at this time. Superficial coat peeling from SMT.
0.20.065 SBU Recommendation	
0.20.030 Alarm Log Number	

1.10 Blade Data

1.10.000 Blade Manufacturer	Vestas Blades
1.10.020 Blade Length (m)	55
1.10.030 Blade Color	Ral 9010 White
1.10.040 Blade Serial No.	138075
1.10.050 Pictures of the damage included	Yes

Help for blade serial number:
Vestas blade numbers:

Is either a 4-6 digit number. i.e. 2354 or 35854
 If the whole batch number is noted it is a 6 digit number-
 warehouse letter and a 4-6 digit number. i.e.
 761003WHBY35964

Old NEGMicon blades
 A 4 digit number

LM blades
 A letter followed by a number i.e E-1234

Insert other blades in set

1.20 Blade Inspection Data

1.20.010 Damage identified ☒

Blade Damage

1.20.020 Damage placement	External
1.20.030 Damage Type	Lightning hit – receptor → comment
1.20.040 Radius (m)	55
1.20.050 Blade edge	Tip
1.20.060 Description	Blade tip burnt

1.20.070 Picture no. 1,2,3

Insert more blade damages. .

Fault Code

1.20.080 Overall blade condition	2
1.20.090 Cause	Production
1.20.100 Type	Lightning hit – receptor - comment
1.20.110 Area	Tip End

Help for Overall blade condition:
 *See INS 0014-3811 in DMS for more information

1: Cosmetic. No intervention required.

2: Similar to cosmetic, intervention is done only if there are other problems in the blade or turbine.

3: Damage is not serious. Intervention is done during planned inspection of the turbine. Blade must be repaired within 6 months. A modified timeframe for repair may be specified by blade specialist.

4: Serious damage, but not threatening continued turbine operation within next 3 months. Blade must be repaired within 3 months or during next planned turbine inspection, whichever occurs first. A modified timeframe for repair may be specified by blade specialist.

5: Very serious damage. Immediate intervention required to prevent further damage to blade, turbine or surrounding area.

1.30 Test of Lightning System

1.30.010 VT number

1.30.020 Calibration date

1.30.030
 Receptor
 Leeward's
 side

Pre- Repair

Post- Repair

Tip Type value (m Ohm)

Type value (m Ohm)

2	Type value (m Ohm)	Type value (m Ohm)
3	Type value (m Ohm)	Type value (m Ohm)
4	Type value (m Ohm)	Type value (m Ohm)
5	Type value (m Ohm)	Type value (m Ohm)

1.30.040
Receptor
Windward's
side

Pre- Repair

Post- Repair

Tip	Type value (m Ohm)	Type value (m Ohm)
2	Type value (m Ohm)	Type value (m Ohm)
3	Type value (m Ohm)	Type value (m Ohm)
4	Type value (m Ohm)	Type value (m Ohm)
5	Type value (m Ohm)	Type value (m Ohm)

1.40 Pictures

Attached pictures are automatically resized to a maximum of 1152*864 pixels (max. 400 KB per picture) in compressed jpeg format.

Please notice that you can insert max. 20 pictures per report.

Remember to use photo card KS.959457

1.40.010 Blade Type Plate

☒ Not possible, explanation required:
could not enter due to lightning

Click here to insert a picture

1.40.020 Additional pictures

☐ No pictures, explanation required:



Blade A tip



Blade A tip



Blade A tip

Insert more pictures

[View full size images](#)

8.10 CIR Version Information (updated automatically)

8.10.010 Version number

2

8.10.020 CIR ID 158459

8.10.030 1. notification has been sent ☐

8.10.040 2. notification has been sent ☐

8.10.050 Approval status Approved by MATRI on 26-06-2013

8.10.050 Edited by

MATRI

2013-06-26

inserted additional information

CHCB8

2013-06-26

Component Inspection Report

**When creating a new CIR:
Not for reuse - Use only this template from scratch!**

Blade

0.10 Wind Turbine Data

0.10.010 Report Type	Inspection	If a component has failed, always select "Failure" as primary Report Type.
0.10.030 CIM Case Number	-1	
0.10.040 Reason for service		
0.10.050 Turbine Number	46670	About turbine data: Country, site name and wind turbine parameters are filled out automatically once the CIR is submitted.
0.10.060 Country	United states	
0.10.070 Site name (ZIP code if appropriate)	EDPR-Marble River 2012	
0.10.080 Turbine type	V112	
0.10.090 Rotor diameter	112M	
0.10.100 Nominal power	3000kW	
0.10.110 Voltage	690V	
0.10.120 Power regulation	GRST (Grid...	
0.10.130 Frequency	50Hz	
0.10.140 Small generator	0kW	
0.10.150 Temperature variant	Standard	
0.10.160 MK version	MK0	
0.10.170 Onshore / Offshore	Onshore	
0.10.180 Manufacturer	Vestas	
0.10.200 Local turbine ID	0030	
0.10.220 Run status at arrival	Run	
0.10.230 Commissioning date (yyyy-mm-dd)	2012-09-21	
0.10.240 Installation date of failed component (yyyy-mm-dd)	2012-09-21	
0.10.260 Failure date (yyyy-mm-dd)	Choose failure date	
0.10.250 Inspection date (yyyy-mm-dd)	2013-06-26	
0.10.270 Service report number	51942168	
0.10.280 Notification number		
0.10.290 Service engineer	JAMGS	
0.10.300 Run (hrs)	6469	
0.10.310 Generator 1 (hrs)	5614	
0.10.320 Generator 2 (hrs)	Enter generator 2 run hours	
0.10.330 Total production (kWh)	5847260	
0.10.340 Run status after inspection	Run	

0.20 Description

0.20.010 Vestas Item Number	78000007
0.20.020 Quantity of failed components/problems	1
0.20.040 Description	Blade "A"

0.20.050 Description of any consequential problems/damage

0.20.060 Additional Information Cat 2 damage--no repair required

0.20.065 SBU Recommendation

0.20.030 Alarm Log Number

1.10 Blade Data

1.10.000 Blade Manufacturer	Vestas Blades	
1.10.020 Blade Length (m)	55	
1.10.030 Blade Color	Ral 9010 White	
1.10.040 Blade Serial No.	138039	
1.10.050 Pictures of the damage included	Yes	

Insert other blades in set ..

Help for blade serial number:
Vestas blade numbers:
Is either a 4-6 digit number, i.e. 2354 or 35854
If the whole batch number is noted it is a 6 digit number-
warehouse letter and a 4-6 digit number, i.e.
761003WHBY35964

Old NEGMicon blades
A 4 digit number

LM blades
A letter followed by a number, i.e E-1234

1.20 Blade Inspection Data

1.20.010 Damage identified ☒

Blade Damage

1.20.020 Damage placement	External
1.20.030 Damage Type	Lightning hit - receptor → comment
1.20.040 Radius (m)	55
1.20.050 Blade edge	Tip
1.20.060 Description	Lightning strike to copper tip of blade, leaving a blackened tip.
1.20.070 Picture no.	5

Insert more blade damages ..

Fault Code

1.20.080 Overall blade condition	2	Help for Overall blade condition: *See INS 0014-3811 in DMS for more information
1.20.090 Cause	After Commissioning	1: Cosmetic. No intervention required
1.20.100 Type	Lightning hit - receptor - comment	2: Similar to cosmetic, intervention is done only if there are other problems in the blade or turbine. 3: Damage is not serious. Intervention is done during planned inspection of the turbine. Blade must be repaired within 6 months. A modified timeframe for repair may be specified by blade specialist.
1.20.110 Area	Tip End	4: Serious damage, but not threatening continued turbine operation within next 3 months. Blade must be repaired within 3 months or during next planned turbine inspection, whichever occurs first. A modified timeframe for repair may be specified by blade specialist. 5: Very serious damage. Immediate intervention required to prevent further damage to blade, turbine or surrounding area.

1.30 Test of Lightning System

1.30.010 VT number

1.30.020 Calibration date

1.30.030		
Receptor	Pre- Repair	Post- Repair
Leeward's side		
Tip	Type value (m Ohm)	Type value (m Ohm)

2	Type value (m Ohm)	Type value (m Ohm)
3	Type value (m Ohm)	Type value (m Ohm)
4	Type value (m Ohm)	Type value (m Ohm)
5	Type value (m Ohm)	Type value (m Ohm)

1.30.040
Receptor
Windward's
side

Pre- Repair

Post- Repair

Tip	Type value (m Ohm)	Type value (m Ohm)
2	Type value (m Ohm)	Type value (m Ohm)
3	Type value (m Ohm)	Type value (m Ohm)
4	Type value (m Ohm)	Type value (m Ohm)
5	Type value (m Ohm)	Type value (m Ohm)

1.40 Pictures

Attached pictures are automatically resized to a maximum of 1152*864 pixels (max. 400 KB per picture) in compressed jpeg format.

Please notice that you can insert max. 20 pictures per report.

Remember to use photo card KS.959457

1.40.010 Blade Type Plate

☒ Not possible, explanation required:

[Click here to insert a picture](#)

Lightning stand down. plate is not accessible do to severe storms throughout the week.

1.40.020 Additional pictures

☐ No pictures, explanation required:



Photo of damage to blade tip end



Photo of damage to blade tip end



Photo of damage to blade tip end



Photo of damage to blade tip end



Photo of damage to blade tip end

[Click here to insert a picture](#)

Comments regarding picture

[Insert more pictures](#)

[View full size images](#)

8.10 CIR Version Information (updated automatically)

8.10.010 Version number	2
8.10.020 CIR ID	158614
8.10.030 1. notification has been sent	☒
8.10.040 2. notification has been sent	☐
8.10.050 Approval status	Approved by MATRI on 28-06-2013

8.10.050 Edited by

MATRI

2013-06-28

inserted additional information

JAMGS

2013-06-27