

Stantec

**CLYDESDALE RIDGE WIND FARM FINAL ENVIRONMENTAL ASSESSMENT
REGISTRATION**

Appendix B

Project Agreements



Transport Canada Transports Canada

APPENDIX C TO CAR 621.19 - ANNEXE C RAC 621.19

AERONAUTICAL OBSTRUCTION
CLEARANCE FORM

FORMULAIRE D'AUTORISATION
D'OBSTACLE AÉRIEN

TC File No./Ref No. - TC n° du dossier/N° de réf.

RECEIVED / REÇU

TO BE COMPLETED BY APPLICANT - À REMPLIR PAR LE REQUÉRANT

Operator's Name - Nom de l'opérateur

CLYDESDALE RIDGE WIND FARM

Operator's Address - Adresse de l'opérateur

796 Dan Fraser Road, Westville, NS B0K 2A0

Operator's Contact - Agent de liaison de l'opérateur

Lisa Fulton

Contact's Telephone No. - N° de téléphone de liaison

902-759-6626

Contact's FAX No. - N° de télécopieur de liaison

902-925-9464

Contact's Email Address - Adresse électronique de liaison

lisa.fulton@eastlink.ca

Applicant's Name - Nom du requérant

Dalhousie Mountain N. and Energy Inc.

Address - Adresse

796 DAN FRASER ROAD

City - Ville

WESTVILLE

Province/Territory - Province/Territoire

NOVA SCOTIA

Postal - Code - postal

B0K 2A0

Applicant's Telephone No. - N° de téléphone du requérant

902-759-6626

Applicant's FAX No. - N° de télécopieur du requérant

902-925-9464

Applicant's Email Address - Adresse électronique du requérant

lisa.fulton@eastlink.ca

Nearest city / town to proposed facility

Ville la plus proche de la structure proposée

Geographic coordinates of structure - coordonnées géographiques de la structure

Please see attachment for coordinates

☐ NAD27 ☒ NAD83 ☐ WGS84

TOWERS / ANTENNAS
TOURS / ANTENNES

BUILDING OR OTHER STRUCTURE
BÂTIMENT OU AUTRE STRUCTURE

Feet - Pieds

Meters - Mètres

397

121

A Height above ground
Hauteur au-dessus du sol

B Building height
Hauteur du bâtiment

C Ground elevation above sea level
Hauteur du sol au-dessus du niveau de la mer

see chart attached

List any tall adjacent buildings and structures which may shield the proposed structure (Attach sketch)

Faire une liste indiquant les structures et bâtiments avoisinants plus haut que le bâtiment projeté (Inclure un diagramme)

New struc. - Nouv. struc.

☒ Yes
Oui

☐ No
Non

Add. to exist. struc. incl. total hght. - Ajout à un bâti. exis. incl. hauteur total

Proposed Construction - Date - de construction proposée

2014-07-31

TYPE OF STRUCTURE (narrative description and function) - GENRE DE STRUCTURE (description narrative et fonction)

Wind Turbine Generator (illustrated description attached)

Signature (of applicant)
(du requérant)

Date (Y/A-M-D/J)

2011-11-24

TRANSPORT CANADA USE ONLY - À L'USAGE DE TRANSPORTS CANADA

AERONAUTICAL ASSESSMENT - ÉVALUATION AÉRONAUTIQUE

Site acceptable - Emplacement acceptable

☐ Yes
Oui

☐ No (if no, reason)
Non (si non, pourquoi)

Lighting as per (TP382) required - Balisage lumineux tel que demandé au (TP382)

☐ Yes
Oui

☐ No or
Non ou

Painting as per (TP382) required - Balisage peint tel que demandé au (TP382)

☐ Yes
Oui

☐ No or
Non ou

Temporary lighting required - Nécessité d'un balisage lumineux temporaire

☐ Yes
Oui

☐ No (if yes, type)
Non (si oui, de quel genre)

Advise Transport Canada in writing 90 days before construction
Avertir Transports Canada par écrit 90 jours avant la construction

☐ when construction starts
au commencement de la construction

☐ and on completion
et à la fin des travaux

☐ Valid to
Valable jusqu'à

Civil Aviation Inspector (as required) - Inspecteur Aviation Civile (si nécessaire)

Comments - Commentaires

Signature

(Y/A-M-D/J)

2011-12-22

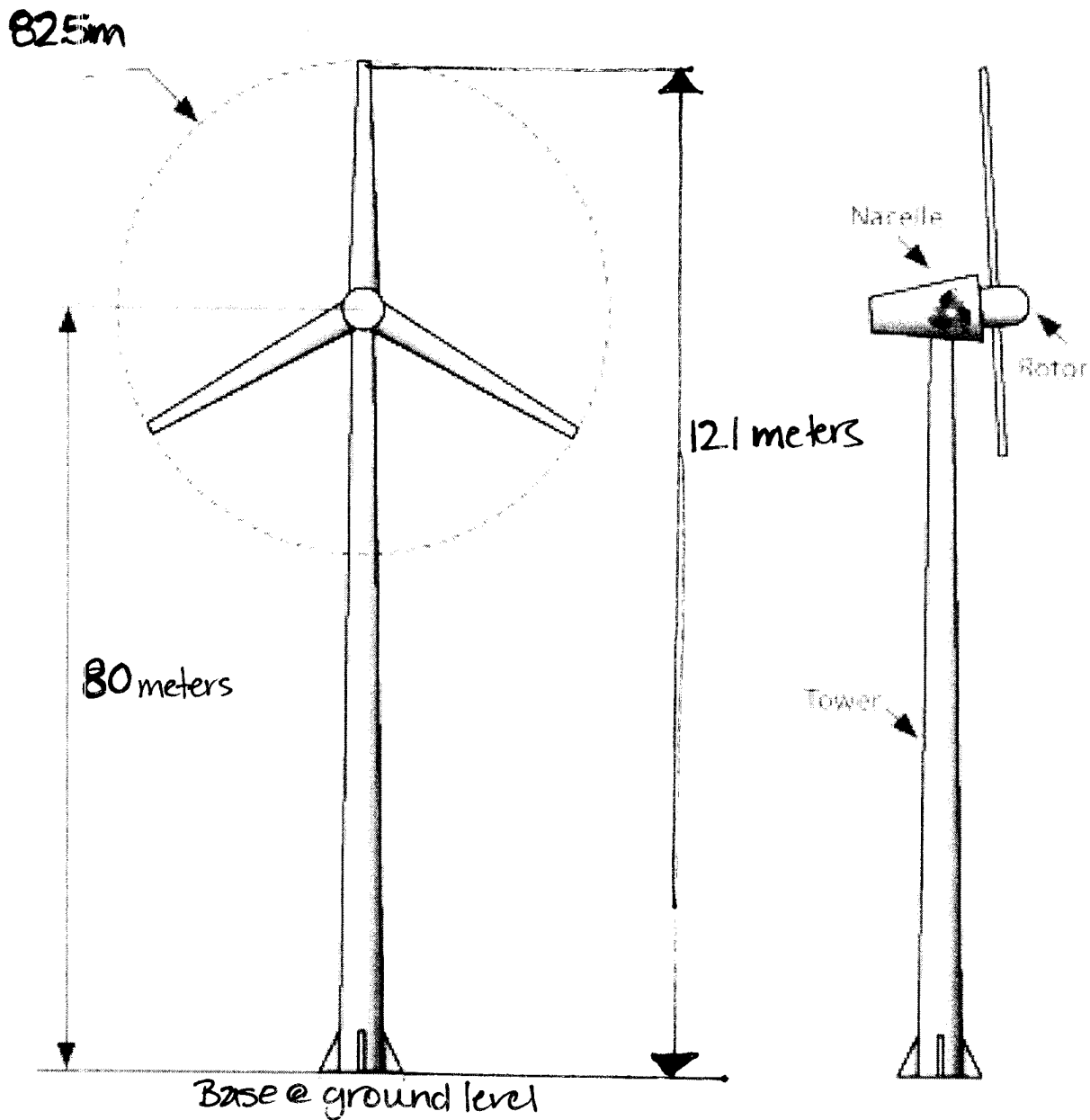
Date

Regional Manager Aerodrome Safety
Gestionnaire Régional Sécurité des aéroports

Signature

Date (Y/A-M-D/J)

2011-12-22



Above is a diagram of the wind turbine generator with dimensions in meters. The structure's total height is 121 meters.

Structure Dimensions
GE 1.6mw SLE

Aeronautical Obstruction Clearance Form Attachment

Clydesdale Ridge Wind Project

Pictou County and Colchester County, Nova Scotia

For this application, the developer is Dalhousie Mountain Wind Energy Inc. The project proposed is the second phase of the existing Dalhousie Mountain Wind Farm in Pictou County, Nova Scotia. The Dalhousie project has been operational since August 2009.

The applicant has provided two detailed maps, both on Provincial 1:50,000 topo maps (each in triplicate). One map shows the existing Dalhousie project (Phase 1) turbines and whether they are lit (Y) or not lit (N) as well as the proposed Clydesdale project (Phase 2) turbines and whether they will be lit (Y) or not lit (N). The other map shows just the proposed turbines as applied for under this application and whether or not the structure will be lit.

The tables below describe: turbine by name; base elevation; tip elevation (total height of machine with blades in highest vertical position); whether or not ('N' or 'Y') the structure will be lit, and; the latitude and longitude of each turbine in Degrees, Minutes, Seconds.

Table 1 describes turbine location details for the proposed Clydesdale Ridge Wind Farm.

Table 2 describes the base elevation of the location of the structure as well as the total height of the structure (as defined below), in both feet and meters.

Height Definition:

Each GE 1.6mw SLE wind turbine generator has a hub height of 80m and a rotor diameter of 82.5m. Therefore, the total height of the structure in its highest vertical position is 121.25m above ground level.

$H = \text{hub height} + \text{rotor diameter} / 2$

$H = 80\text{m} + 82.5\text{m} / 2$

$H = 262' + 270.5' / 2$

$H = 80\text{m} + 41.25\text{m}$

$H = 262' + 135.25'$

$H = 121.25\text{m}$

$H = 397.25'$

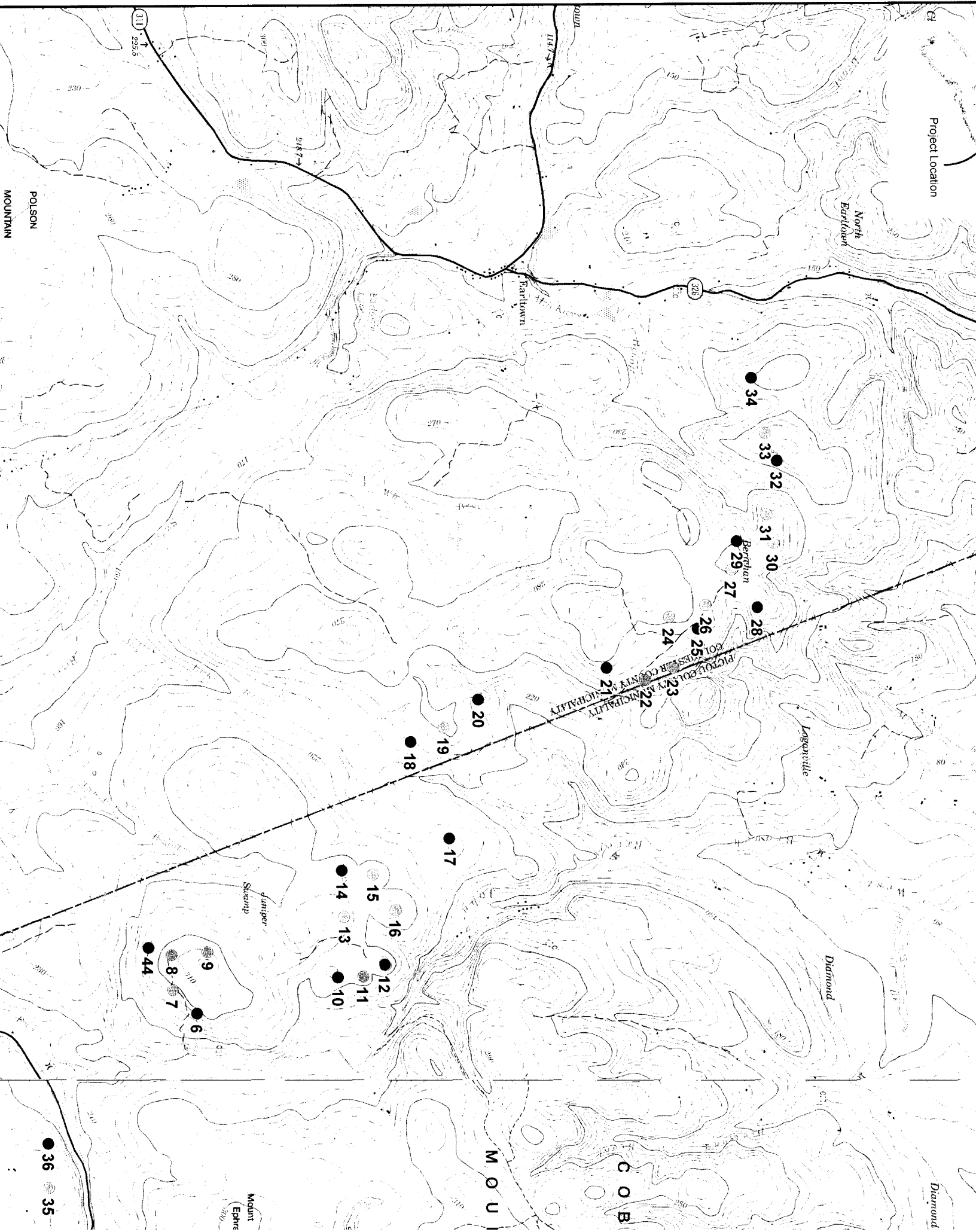
Table 1: Coordinates, Lighting Plan, Elevation (base and tip) in meters

Turbine	Base Elevation (m)	Tip Elevation (m)	Lit?	Latitude: d, m, s	Longitude: d, m, s
34	248	369	Y	45, 36, 25.69	63, 7, 9.03
33	261	382	N	45, 36, 31.49	63, 6, 35.66
32	259	380	Y	45, 36, 36.56	63, 6, 18.49
23	272	393	N	45, 35, 51.46	63, 4, 12.4
24	297	418	N	45, 35, 49.78	63, 4, 43.27
26	292	413	N	45, 36, 5.4	63, 4, 50.54
19	250	371	N	45, 34, 11.87	63, 3, 36.24
18	225	347	Y	45, 33, 57.58	63, 3, 27.41
30	285	406	N	45, 36, 34.95	63, 5, 28.35
8	308	429	N	45, 32, 13.55	63, 1, 17.37
22	271	392	N	45, 35, 39.37	63, 4, 4.95
25	287	408	Y	45, 36, 2.04	63, 4, 36.14
6	293	414	Y	45, 32, 24.54	63, 0, 41.92
7	291	412	N	45, 32, 14.2	63, 0, 56.16
1	249	370	N	45, 30, 56.93	62, 57, 52.79
9	305	426	N	45, 32, 29.07	63, 1, 19.22
11	260	381	N	45, 33, 36.44	63, 1, 4.07
12	265	386	Y	45, 33, 45.93	63, 1, 11.27
10	265	386	Y	45, 33, 25.45	63, 1, 3.51
16	260	381	N	45, 33, 50.69	63, 1, 44.67
13	265	386	N	45, 33, 28.3	63, 1, 40.6
14	260	381	Y	45, 33, 27.51	63, 2, 8.92
15	255	376	N	45, 33, 40.99	63, 2, 6.53
17	225	346	Y	45, 34, 14.17	63, 2, 28.42
21	287	408	Y	45, 35, 22.55	63, 4, 12.27
27	299	420	N	45, 36, 16.66	63, 5, 12.07
28	290	411	Y	45, 36, 27.72	63, 4, 49.05
29	288	409	Y	45, 36, 18.91	63, 5, 29.39
31	280	401	N	45, 36, 31.92	63, 5, 45.94
35	247	368	N	45, 31, 20.37	62, 58, 55.6
36	233	354	Y	45, 31, 20.12	62, 59, 22.25
37	239	360	N	45, 31, 59.73	62, 57, 55.74
38	260	381	Y	45, 32, 40.49	62, 57, 43.68
39	260	381	N	45, 32, 34.04	62, 57, 25.2
40	282	403	N	45, 32, 26.38	62, 57, 3.3
41	297	418	Y	45, 32, 22.68	62, 56, 53.71
42	291	412	N	45, 32, 41.08	62, 56, 43.32
43	275	396	Y	45, 32, 59.03	62, 56, 34.12
44	286	407	Y	45, 32, 3.66	63, 1, 21.93
20	226	447	Y	45, 34, 26.93	63, 3, 53.28

Table 2: Turbines with base and tip elevations in imperial and metric

Turbine	Base elevation (ft)	Base elevation (m)	Total elevation (ft)	Total elevation (m)
34	814	248	1210	369
33	856	261	1253	382
32	850	259	1247	380
23	892	272	1289	393
24	974	297	1371	418
26	958	292	1355	413
19	820	250	1218	371
18	738	225	1138	347
30	935	285	1332	406
8	1011	308	1407	429
22	889	271	1286	392
25	941	287	1339	408
6	961	293	1358	414
7	955	291	1352	412
1	817	249	1214	370
9	1001	305	1398	426
11	853	260	1250	381
12	869	265	1266	386
10	869	265	1266	386
16	853	260	1250	381
13	869	265	1266	386
14	853	260	1250	381
15	837	255	1234	376
17	738	225	1135	346
21	941	287	1339	408
27	981	299	1378	420
28	951	290	1348	411
29	945	288	1342	409
31	919	280	1316	401
35	810	247	1207	368
36	764	233	1161	354
37	784	239	1181	360
38	853	260	1250	381
39	853	260	1250	381
40	925	282	1322	403
41	974	297	1371	418
42	955	291	1352	412
43	902	275	1299	396
44	938	286	1335	407
20	741	226	1467	447

Diamond
1-800-999-5438



Land Use Submission Form Attachment

Clydesdale Ridge Wind Project

Expansion of Dalhousie Mountain Wind Farm (file # 08-1177)

Pictou County and Colchester County, Nova Scotia

For this application, the developer is Dalhousie Mountain Wind Energy Inc. The project proposed is the second phase of the existing Dalhousie Mountain Wind Farm in Pictou County, Nova Scotia. The Dalhousie project has been operational since August 2009.

The applicant has provided two detailed maps, both on Provincial 1:50,000 topographic maps. One map shows the existing Dalhousie project (Phase 1) turbines and whether they are lit (Y) or not lit (N) as well as the proposed Clydesdale project (Phase 2) turbines and whether they will be lit (Y) or not lit (N).

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$H = \text{hub height} + \text{rotor diameter} / 2$

$H = 80\text{m} + 82.5\text{m} / 2$

$H = 262' + 270.5' / 2$

$H = 80\text{m} + 41.25\text{m}$

$H = 262' + 135.25'$

$H = 121.25\text{m}$

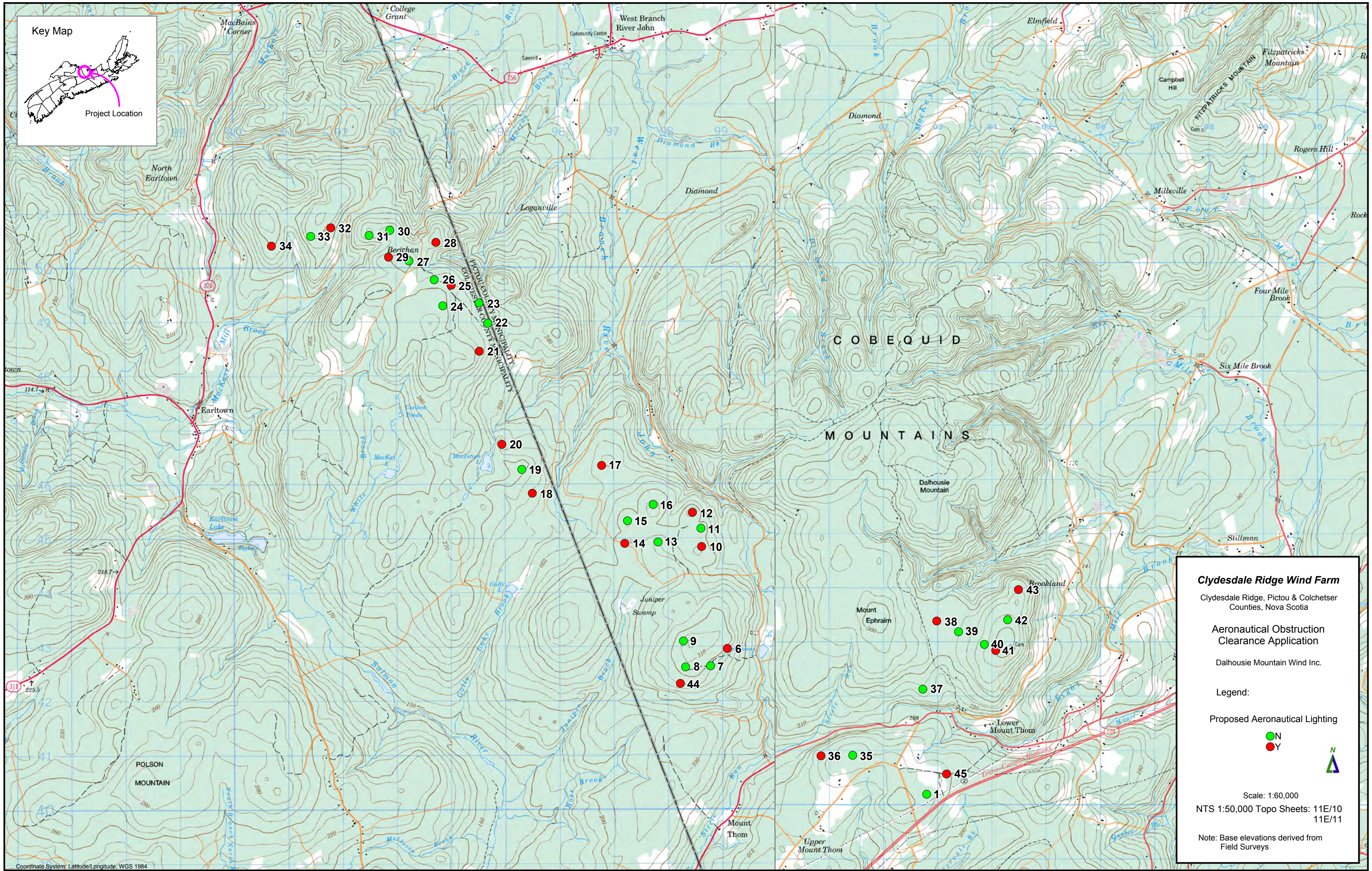
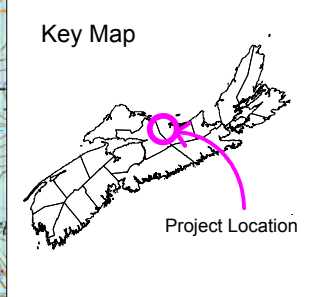
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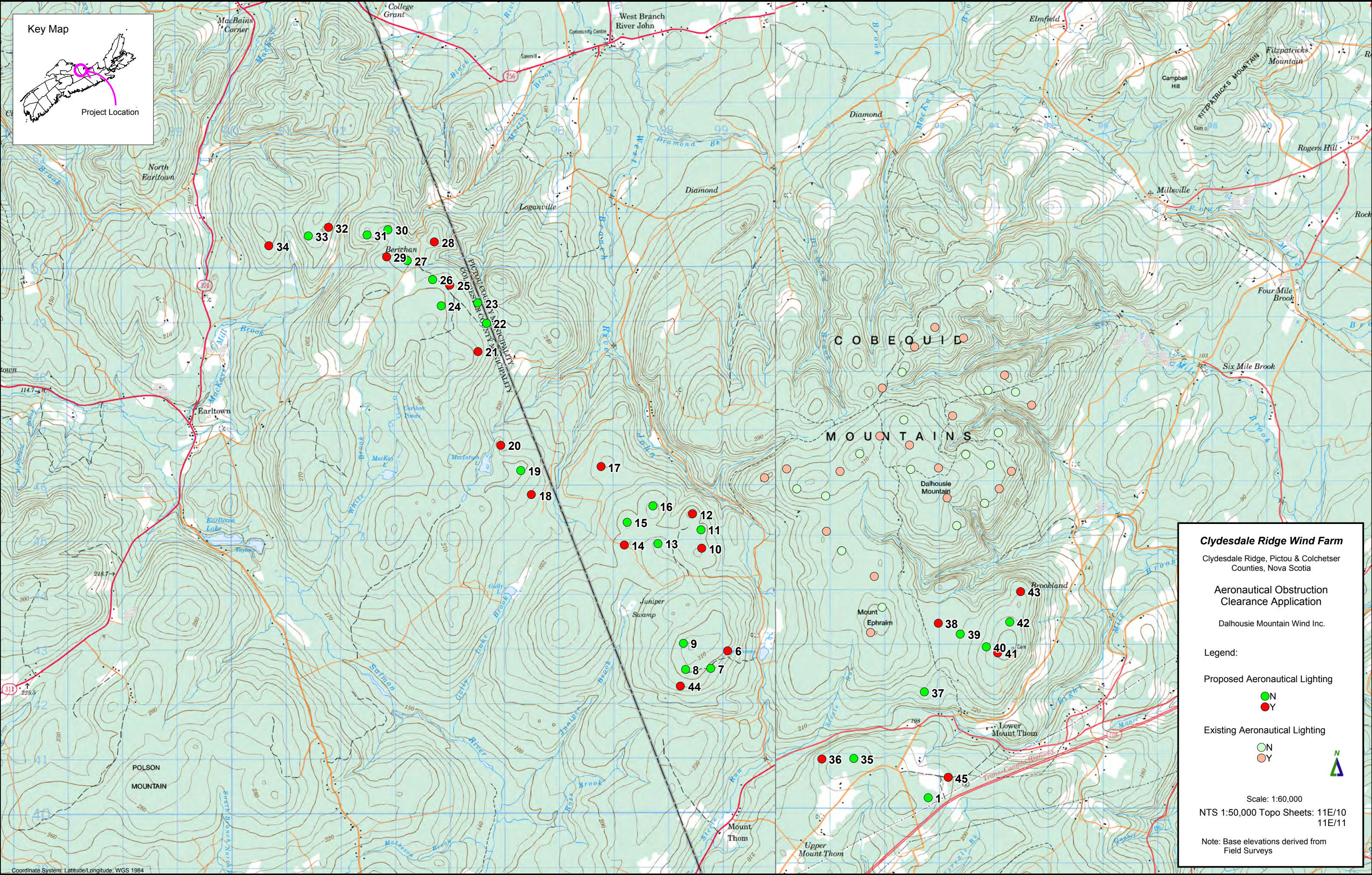
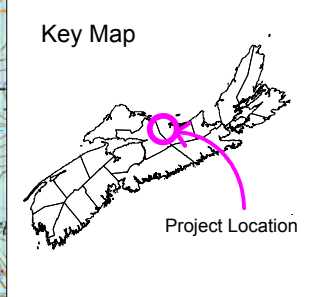
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41	974	297	1371	418
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Clydesdale Ridge Wind Farm
Clydesdale Ridge, Pictou & Colchester
Counties, Nova Scotia

**Aeronautical Obstruction
Clearance Application**

Dalhousie Mountain Wind Inc.

Legend:

Proposed Aeronautical Lighting

- N
- Y

Existing Aeronautical Lighting

- N
- Y

Scale: 1:60,000
NTS 1:50,000 Topo Sheets: 11E/10
11E/11

Note: Base elevations derived from
Field Surveys



Tower information						Upon completion		
Turbine Number	LAT dd mm ss.ss	LONG -ddd mm ss.ss	Ground Elevation (Feet)	Structure Height (Feet)	Total Height (Feet)	Lighted Y/N	Painted Y/N	Construction Date
34	45 36 25.69	63 7 9.03	814	398	1210	Y	N	1-Jan-14
33	45 36 31.49	63 6 35.66	856	398	1253	N	N	1-Jan-14
32	45 36 36.56	63 6 18.49	850	398	1247	Y	N	1-Jan-14
23	45 35 51.46	63 4 12.4	892	398	1289	N	N	1-Jan-14
24	45 35 49.78	63 4 43.27	974	398	1371	N	N	1-Jan-14
26	45 36 5.4	63 4 50.54	958	398	1355	N	N	1-Jan-14
19	45 34 11.87	63 3 36.24	820	398	1218	N	N	1-Jan-14
18	45 33 57.58	63 3 27.41	738	398	1138	Y	N	1-Jan-14
30	45 36 34.95	63 5 28.35	935	398	1332	N	N	1-Jan-14
8	45 32 13.55	63 1 17.37	1011	398	1407	N	N	1-Jan-14
22	45 35 39.37	63 4 4.95	889	398	1286	N	N	1-Jan-14
25	45 36 2.04	63 4 36.14	941	398	1339	Y	N	1-Jan-14
6	45 32 24.54	63 0 41.92	961	398	1358	Y	N	1-Jan-14
7	45 32 14.2	63 0 56.16	955	398	1352	N	N	1-Jan-14
1	45 30 56.93	62 57 52.79	817	398	1214	N	N	1-Jan-14
9	45 32 29.07	63 1 19.22	1001	398	1398	N	N	1-Jan-14
11	45 33 36.44	63 1 4.07	853	398	1250	N	N	1-Jan-14
12	45 33 45.93	63 1 11.27	869	398	1266	Y	N	1-Jan-14
10	45 33 25.45	63 1 3.51	869	398	1266	Y	N	1-Jan-14
16	45 33 50.69	63 1 44.67	853	398	1250	N	N	1-Jan-14
13	45 33 28.3	63 1 40.6	869	398	1266	N	N	1-Jan-14
14	45 33 27.51	63 2 8.92	853	398	1250	Y	N	1-Jan-14
15	45 33 40.99	63 2 6.53	837	398	1234	N	N	1-Jan-14
17	45 34 14.17	63 2 28.42	738	398	1135	Y	N	1-Jan-14
21	45 35 22.55	63 4 12.27	941	398	1339	Y	N	1-Jan-14
27	45 36 16.66	63 5 12.07	981	398	1378	N	N	1-Jan-14
28	45 36 27.72	63 4 49.05	951	398	1348	Y	N	1-Jan-14
29	45 36 18.91	63 5 29.39	945	398	1342	Y	N	1-Jan-14
31	45 36 31.92	63 5 45.94	919	398	1316	N	N	1-Jan-14
35	45 31 20.37	62 58 55.6	810	398	1207	N	N	1-Jan-14
36	45 31 20.12	62 59 22.25	764	398	1161	Y	N	1-Jan-14
37	45 31 59.73	62 57 55.74	784	398	1181	N	N	1-Jan-14
38	45 32 40.49	62 57 43.68	853	398	1250	Y	N	1-Jan-14
39	45 32 34.04	62 57 25.2	853	398	1250	N	N	1-Jan-14
40	45 32 26.38	62 57 3.3	925	398	1322	N	N	1-Jan-14
41	45 32 22.68	62 56 53.71	974	398	1371	Y	N	1-Jan-14
42	45 32 41.08	62 56 43.32	955	398	1352	N	N	1-Jan-14
43	45 32 59.03	62 56 34.12	902	398	1299	Y	N	1-Jan-14
44	45 32 3.66	63 1 21.93	938	398	1335	Y	N	1-Jan-14
20	45 34 26.93	63 3 53.28	741	398	1467	Y	N	1-Jan-14



May 10, 2012

Your file
Clydesdale Ridge Wind Farm
Our file
11-4846

Ms. Lisa Fulton
Dalhousie Mountain Wind Farm
796 Dan Fraser Road
Westville, NS
B0K 2A0

RE: Wind Farm: 39 wind turbines - Pilton, NS
(See attached spreadsheet)

Ms. Fulton,

We have evaluated the captioned proposal and NAV CANADA has no objection to the project as submitted. Analysis shows that turbine 1 is visible and turbines 2-39 are marginally visible to the Halifax Radar and none are visible to the Moncton Radar. These turbines in this wind farm have the potential to be a constant source of false targets and could mask real aircraft in the vicinity of the wind farm. Any changes to this proposal would need to be re-assessed for possible impacts.

While these proposed 39 wind turbines are acceptable, it does not constitute NAV CANADA's approval for any additional structures at this location. The nature and magnitude of electronic interference to NAV CANADA ground-based navigation aids, including RADAR, due to wind turbines depends on the location, configuration, number, and size of turbines; all turbines must be considered together for analysis. The interference of wind turbines to certain navigation aids is cumulative and while initial turbines may be approved, continued development may not always be possible.

In the interest of aviation safety, it is incumbent on NAV CANADA to maintain up-to-date aeronautical publications and issue NOTAM as required. To assist us in that end, we ask that you notify us at least 10 business days prior to the start of construction. This notification requirement can be satisfactorily met by returning a completed, signed copy of the attached form by e-mail at landuse@navcanada.ca or fax at 613-248-4094. In the event that you should decide not to proceed with this project or if the structure is dismantled, please advise us accordingly so that we may formally close the file.

If you have any questions, contact the Land Use Department by telephone at 1-866-577-0247 or e-mail at landuse@navcanada.ca.

NAV CANADA's land use evaluation is valid for a period of 12 months. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, Industry Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Industry Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA engineering as deemed necessary.

Yours truly,

A handwritten signature in black ink, appearing to read "Aleksandar Trandafilovski".

Aleksandar Trandafilovski
for
David Legault
Manager, Data Collection
Aeronautical Information Services

cc ATLR - Atlantic Region, Transport Canada (2011-544)

Construction Start Notification

File Information															
NC File No 11-4846	TC File No 2011-544	Proponent File No Clydesdale Ridge Wind Farm													
To: NAV CANADA, Land Use 1601 Tom Roberts Ave. P.O. Box 9824 Stn T Ottawa, ON K1G 6R2 E-mail: landuse@navcanada.ca Fax: 613-248-4094	From: Ms. Lisa Fulton Dalhousie Mountain Wind Farm 796 Dan Fraser Road Westville, NS B0K 2A0														
Site Information:	<table style="width: 100%;"> <tr> <td style="width: 50%;">Nearest town:</td> <td>Pilton, NS</td> </tr> <tr> <td>Latitude (N)</td> <td>See attached spreadsheet</td> </tr> <tr> <td>Longitude (W)</td> <td>See attached spreadsheet</td> </tr> <tr> <td>Ground (above sea level)</td> <td>See attached spreadsheet ft</td> </tr> <tr> <td>Structure Height (above ground level)</td> <td>See attached spreadsheet ft</td> </tr> <tr> <td>Total Height (above sea level)</td> <td>See attached spreadsheet ft</td> </tr> </table>			Nearest town:	Pilton, NS	Latitude (N)	See attached spreadsheet	Longitude (W)	See attached spreadsheet	Ground (above sea level)	See attached spreadsheet ft	Structure Height (above ground level)	See attached spreadsheet ft	Total Height (above sea level)	See attached spreadsheet ft
Nearest town:	Pilton, NS														
Latitude (N)	See attached spreadsheet														
Longitude (W)	See attached spreadsheet														
Ground (above sea level)	See attached spreadsheet ft														
Structure Height (above ground level)	See attached spreadsheet ft														
Total Height (above sea level)	See attached spreadsheet ft														
Construction Timeline															
In the interest of aviation safety, NAV CANADA must be notified at least 10 days in advance of the start of construction. Please enter the construction start date (and end date if required) in the space provided below along with any lighting and marking information (as required by Transport Canada).															
Construction start date: (permanent structures)															
Construction dates/times: (temporary structures or cranes) From: To:															
Daily Usage Times – Indicate date/times for which the crane will be in operation up to the maximum height															
Structure Lighting and/or Marking															
All objects, regardless of their height, that have been assessed by Transport Canada as constituting a hazard to air navigation require marking and/or lighting in accordance with the CARs (Canadian Aviation Regulations) and should be marked and/or lighted to meet the standards specified in CAR 621 .															
Structure will have temporary lighting during construction: Yes ☐ No ☐															
If no, please provide anticipated date for permanent lighting system to be operational:															
Structure will have permanent lighting upon completion: Yes ☐ No ☐															
Structure will be marked upon completion: Yes ☐ No ☐															
I hereby certify that the location, height/elevation, construction dates, as well as lighting and marking information contained herein to be true and accurate.															
Name		Signature													
Title		Date													

OFFICE USE ONLY:	
AIS Office: IPDU YOW	Advise AIS: Yes
NOTAM: Yes	
May 10, 2012	