Scott A. Stoll Direct: 416.865.4703 E-mail: sstoll@airdberlis.com

BY COURIER, EMAIL AND RESS

Ms. Kirsten Walli Board Secretary Ontairo Energy Board 2300 Yonge Street 27th Floor, Box 2319 Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: Haldimand County Hydro Inc. ("HCHI") Notice of Motion/Affidavit of the Intervenor Board File No.: EB-2011-0027 Board File No.: EB-2011-0063

Please find attached the Notice of Motion of the Intervenor, Haldimand County Hydro Inc. The materials have been filed on the Board's RESS and two (2) hardcopies are being couriered to the Board.

Yours truly,

AIRD & BERLIS LLP

with Fall.

Scott A. Stoll

SAS/hm Encl.

cc: Nabih Mikhail Kristi Sebalj Intervenors from EB-2011-0027 April 29, 2011 Page 2 **IN THE MATTER OF** the *Ontario Energy Board Act 1998*, S.O.1998, c.15, (Schedule B);

AND IN THE MATTER OF an Application by Summerhaven Wind LP for an Order granting leave to construct a new transmission line and associated facilities for the Summerhaven Wind Energy Centre.

AND IN THE MATTER of an Application by Grand Renewable Wind LP for an Order or Orders granting Leave to Construct new Transmission Facilities within Haldimand County, Ontario.

NOTICE OF MOTION OF THE INTERVENOR

HALDIMAND COUNTY HYDRO INC.

Aird & Berlis LLP Suite 1800, Box 754 BCE Place 181 Bay Street Toronto, Ontario M5J 2T9

Attention:Scott StollTel:(416) 865-4703Fax:(416) 863-1515Email:sstoll@airdberlis.com

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EB-2011-0027 EB-2011-0063 Filed: April 28, 2011 Tab 1 Page 1 of 1

TABLE OF CONTENTS

Tab	Exhibit	Description
1		Table of Contents
2		Notice of Motion
3		Affidavit of Lloyd Payne Sworn April 28 th , 2011
	A	List of Projects Receiving FIT Contracts Announced by Ontario Power Authority April 8, 2010
	В	List of Projects Awaiting ECT Announced by Ontario Power Authority April 8, 2010
	С	List of Projects Receiving FIT Contracts Announced by Ontario Power Authority February 24, 2011
	D	British Columbia Ministry of Transportation titled "Effects of High Voltage Transmission Line in Proximity of Highways"

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EB-2011-0027 EB-2011-0063 Notice of Motion by HCHI Page 1 of 11

IN THE MATTER OF the *Ontario Energy Board Act 1998*, S.O.1998, c.15, (Schedule B);

AND IN THE MATTER OF an Application by Summerhaven Wind LP for an Order granting leave to construct a new transmission line and associated facilities for the Summerhaven Wind Energy Centre.

AND IN THE MATTER of an Application by Grand Renewable Wind LP for an Order or Orders granting Leave to Construct new Transmission Facilities within Haldimand County, Ontario.

NOTICE OF MOTION OF THE INTERVENOR

HALDIMAND COUNTY HYDRO INC.

Pursuant to the Ontario Energy Board's Rules of Practice and Procedure (the "Rules"),

Haldimand County Hydro Inc. ("HCHI") will make a motion to the Board for the matter described

herein on a date to be determined by the Board at the Board's office located at 2300 Yonge

Street, Toronto, Ontario. HCHI does not have a preference for an oral or written consideration

of this motion.

THIS MOTION IS FOR:

- 1) An order or orders of the Board to:
 - a) Defer any final decision in EB-2011-0027 and EB-2011-0063 until the Board has conducted a generic proceeding to decide issues of general applicability to the development of transmission lines in municipal rights-of-way ("ROW") and to establish principles for distributors, generators and transmitters to guide the methods and

expectations for connections to and expansion of the grid and the efficient delivery of electricity;

- b) To establish procedures for the publication, notice, participation and scheduling such proceeding; and
- c) Provide such other relief as the Board deems just and reasonable.

THE GROUNDS FOR THIS MOTION

- 2) Haldimand County Hydro Inc. ("HCHI") has been granted intervenor status in EB-2011-0027 and has applied for intervenor status of EB-2011-0063. The Applicants in each proceeding are proponents of wind power projects and have applied for leave to construct 230kV transmission lines in Haldimand County to connect their wind power facilities to the Hydro One Networks Inc. ("HONI") transmission network.
- 3) Each Applicant has proposed to construct significant segments of the proposed transmission line within municipal road allowances. Further, each Applicant has asserted a right to locate the proposed transmission line within the municipal right-of-way pursuant to section 41 of the *Electricity Act, 1998,* S.O.1998, c.15, (Schedule A) (the "**Electricity Act**").
- 4) HCHI acknowledges that other stakeholders may have an interest in the expansion of the transmission system but HCHI has restricted its comments to issues of interest to HCHI and electricity distributors.

Issues of General Concern

- 5) Each of the Applications will not connect to the HCHI distribution system but, if approved as currently proposed to use the municipal ROW, will have an impact upon HCHI and potentially, HCHI's ratepayers. The Applications are of importance to the electricity industry and include the following distributor utility related generic issues:
 - a) Can the OEB order the transmission line to be located underground? And if so, under what circumstances would the OEB make such an order?

- b) Are transmitters and distributors permitted to locate poles on both sides of municipal ROWs?
- c) If the answer to (b) is "no", are transmitters and distributors required to enter into joint use pole agreements? If so, is what space requirements are to be provided for future users and what form of agreements or rights are to included in such an arrangement?
- d) In EB-2011-0063, a form of easement agreement for the municipality is provided. The access to municipal ROWs through the use of an easement agreement may impact the existing rights of electricity distributors and potentially other utilities. Other utilities have rights of access to municipal ROWs but do not have easements. What is the appropriate form and content of land rights that should be granted by a municipality to transmitters in these situations?
- e) If the proposed transmission line has the potential to impact the distributor in respect of operating and maintenance costs, how does the distributor properly recover such costs?
- f) If the proposed transmission line requires or has the potential to require the distributor to purchase additional capital assets, such as a vehicle, is such an expenditure to be recovered from the generator/transmitter?
- g) What quality of service and reliability impacts may result from overhead transmission lines, such as induction and stray voltage;
- h) How does the Board's exclusive authority granted by section 19(6) of the OEB Act, see below, reconcile with the Ministry of the Environment's authority to issue a Renewable Energy Approval pursuant to section 47.3 of the *Environmental Protection Act* ("EPA")?
 19(6) The Board has exclusive jurisdiction in all cases and in respect of all matters in which jurisdiction is conferred on it by this or any other Act.

- 6) HCHI has provided the preliminary list of issues but is not suggesting these are the only issues and that a proper issues list should be developed during the generic proceeding.
- 7) HCHI feels that these issues, if not considered in a generic forum, will be revisited on multiple occasions in the future due to the potential for additional generation projects connecting to the transmission grid given the applications and contracts for such projects.

Additional Leave Applications are Likely

- HCHI is of the view that addition leave to construct proceedings for transmission lines to be located in municipal ROW will arise in the future.
- 9) HCHI would note that in EB-2011-0063, the Applicant has confirmed its intention to construct several similar facilities at Exhibit A, Tab 1, Schedule 1, page 3, item 11 where it stated:

"In particular, the Project will contribute a total of 253.1 MW of clean, renewable energy to the provincial electricity grid, and forms part of the Applicant's commitment, in conjunction with its affiliates, to develop 2500 MW of renewable energy in Ontario over the next five years."

- 10) On April 8, 2010 the Ontario Power Authority ("**OPA**") announced the awarding of 184 Feed-In Tariff Contracts ("**FIT Contracts**"). A copy of the List of Contracts may be found at Exhibit "**A**" to the Affidavit of Mr. Lloyd Payne. The OPA's list of launch projects includes 11 wind power projects that each have a contract capacity of 30MW or more (in some cases more than 100MW) and will likely require a transmission connection. In addition, there are several other wind and solar projects with contract capacities larger than 10MWs which appear to be located in close proximity to several other projects and there may be clusters of projects that require connection to the transmission grid.
- 11) On April 8, 2010, the OPA issued a second list of projects which were not awarded FIT
 Contracts but are awaiting the results of the Economic Connection Test ("FIT Applications
 ECT"). This list of projects included 47 wind projects each with contract capacities in

excess of 30MWs. Again, there are several other wind and solar projects with contract capacities larger than 10MWs which appear to be located in close proximity to other projects and may require connection to the transmission grid. A copy of the list of projects awaiting economic connection test results may be found at Exhibit "**B**" to the Affidavit of Mr. Lloyd Payne. Several of these projects also required an "Enabler Line".

- 12) On February 24, 2011 the OPA announced the second round of large scale projects to receive FIT Contracts ("FIT Contracts Second Round"). This announcement included 3 wind projects with a contract capacity in excess of 30MW. A copy of the list of projects for FIT Contracts – Second Round may be found at Exhibit "C" to the Affidavit of Mr. Lloyd Payne.
- 13) Further, the OPA has other generation procurement processes underway which have and may continue to result in new connections to the transmission system.

Other Jurisdictions, Proper Planning and Expansion of the Grid

14) HCHI is aware that certain jurisdictions, such as British Columbia and Virginia, have taken steps to review the issue of locating transmission lines in ROW. Attached as Exhibit "D" to the Affidavit of L. Payne is a copy of the report prepared for the British Columbia Ministry of Transportation titled "*Effects of High Voltage Transmission Line in Proximity of Highways*". This report provides a survey and recommendations regarding the practice of locating transmission lines near highways. This report is available on the Ministry of Transportation website at:

http://www.th.gov.bc.ca/publications/eng_publications/electrical/transmission_line_study.pdf

15) Virginia has also considered the issue of above-ground and underground transmission lines through the Virginia Joint Commission on Technology and Science.

- 16) However, HCHI is not aware of such guidance for Ontario's more than 80 distributors and 6 regulated transmitters.
- 17) HCHI is of the view that the request for a generic proceeding is consistent with and would further the Board's agenda for rational, efficient regional planning. A wind power proponent is concerned primarily with obtaining the lowest cost effective manner of connecting the wind project, not the most cost effective long-range evolution of the electricity grid. As such, the incorporation of these types of projects into a regional planning framework would be of benefit to distributors and ratepayers.
- 18) HCHI would note that on April 1, 2011, the Board announced a consultative proceeding, EB-2011-0043 to provide a framework for regional planning. The purpose of the proceeding is:

This consultation is intended to develop a regulatory framework for regional planning, having regard to the principles articulated in earlier TSC consultations as well as the following:

- that an optimized solution is desirable as being the lowest cost in the long term;
- that a coordinated solution is desirable as allowing for a consideration of broader needs and for involvement by a larger set of stakeholders; and
- that cost responsibility for optimized solutions is attributed in an appropriate manner.
- 19) The Summerhaven Wind Energy Centre is located in close proximity to the Port Dover and Nanticoke Wind Farm and the IESO recommended that a joint connection facility be utilized. Certainly, a coordinated regional plan would have benefits to ratepayers, utilities and generators.
- 20) Historically transmission lines have been located in dedicated utility ROW. However, HCHI is of the view that locating transmission facilities in municipal ROW will increasingly be a preferred option and quite possibly the default option for generators as:
 - a) The *Electricity Act* section 41 provides:

<u>41. (1)</u> A transmitter or distributor may, over, under or on any public street or highway, construct or install such structures, equipment and other facilities as it

considers necessary for the purpose of its transmission or distribution system, including poles and lines.

- b) The generator has fewer landowners with whom to negotiate;
- c) There is no ability to tax such facilities where locating such lines on private property would require payment to the landowner thus lowering costs for the generator; and
- d) It is expected that constructing in a previously disturbed ROW will raise fewer environmental issues.
- 21) HCHI is of the view that the policy and circumstances of the current market have evolved as the transmission lines associated with generation do not serve the ratepayers in the same manner as that of the traditional rate regulated transmission companies. When the market first opened in 2002 there were fewer than 6 licensed electricity transmitters. New transmitters were licensed to serve remote communities, a furtherance of the general public interest.
- 22) Traditional rate regulated transmission companies have obligations to provide access to load and generator customers which differ from those of the single purpose transmission asset for a wind power facility. The influx of transmitters may also raise issues regarding the further expansion of the electricity grid and issues of open access to transmission.
- 23) As such, the analysis and balancing of interests under section 41 may differ today given the different circumstances and policy objectives of the Province and mandate of the Ontario Energy Board.

Scope of Authority for Leave to Construct

24) The Board's scope of authority for leave to construct is limited by section 96(2) of the OEB Act, which is reproduced below: <u>96. (1)</u> If, after considering an application under section 90, 91 or 92 the Board is of the opinion that the construction, expansion or reinforcement of the proposed work is in the public interest, it shall make an order granting leave to carry out the work.

(2) In an application under section 92, the Board shall only consider the following when, under subsection (1), it considers whether the construction, expansion or reinforcement of the electricity transmission line or electricity distribution line, or the making of the interconnection, is in the public interest:

1. The interests of consumers with respect to prices and the reliability and quality of electricity service.

2. Where applicable and in a manner consistent with the policies of the Government of Ontario, the promotion of the use of renewable energy sources.

25) HCHI is of the view the Board must consider the impacts upon HCHI and HCHI's ratepayers

even though the transmission system is not connecting to HCHI electricity distribution system.

- 26) The Board is to consider the quality of service in its review of a leave to construct application. Also, HCHI would suggest that standard incident response capabilities imposed by the Board would lead to a consistent known standard which all such generators, transmitters and distributors would need to meet.
- 27) In HCHI's limited review of renewable energy approvals much of the information pertains to the wind turbines and very little appears to be related to the transmission lines. HCHI is concerned that without sufficient standards and guidance from the Board issues may arise to the potential detriment of ratepayers.
- 28) HCHI is concerned that a potential conflict between the Board's power and the Minister of the Environment's power under section 47.3 of the EPA may arise and that the development of guiding principles would reduce or avoid the likelihood of such a conflict.

Other

- 29) Locating transmission facilities within municipal ROW may impact other utilities and could lead to additional congestion in ROW as well as issues of grounding related to induced or stray voltage.
- 30) The municipal ROW is a public asset and the use of it by private generators raises different policy considerations in determining the appropriate course of action. For example, how are the rights balanced against the rights of other users of the ROW and those of ratepayers?
- 31) HCHI has retained Kinectrics, a consulting firm with considerable expertise in the area, to provide technical assistance to its participation in the Applications, and if appropriate, the generic proceeding.
- 32) HCHI has brought this motion for an orderly consideration of the issues that may arise for the connection of generation projects and the use of municipal ROW. It is felt that a considered approach to the general issues will result in a more efficient review of future specific projects rather than having a specific situation create rules of general application which are given precedential significance with the considered approach of establishing industry standards.

MATERIALS TO BE RELIED UPON

33) HCHI will rely upon the following materials:

- a) The Affidavit of Mr. Lloyd Payne sworn April 28th, 2011;
- b) The evidentiary record to date in the proceedings EB-2011-0027 and EB-2011-063;
- c) The Ontario Energy Board Rules of Practice and Procedure;
- d) The Board's decisions in other such similar matters; and
- e) Such other materials as counsel may advise and this Board will permit.

EB-2011-0027 EB-2011-0063 Notice of Motion by HCHI Page 10 of 11

ALL OF WHICH IS RESPECTFULLY SUBMITTED.

HALDIMAND COUNTY HYDRO INC.

int Stall.

By its Counsel Scott Stoll

Aird & Berlis LLP Suite 1800, Box 754 BCE Place 181 Bay Street Toronto, Ontario M5J 2T9

Tel: (416) 865-4703 Fax: (416) 863-1515 Email: sstoll@airdberlis.com

TO:

THE ONTARIO ENERGY BOARD

Kirsten Walli Board Secretary Ontario Energy Board 27th Floor, P.O. Box 2319 2300 Yonge Street Toronto Ontario M4P 1E4

Tel: 416-481-1967 Fax: 416-440-7656 E-mail:

AND TO: The Applicant

Grand Renewable Wind LP c/o Grand Renewable Wind GP Inc. 55 Standish Court Mississauga, ON L5R Attention: Mr. Jeong Tack Lee Tel: 905-285-1851 Fax: 905-285-1852 Email: leejt@samsung.com

EB-2011-0027 EB-2011-0063 Notice of Motion by HCHI Page 11 of 11

AND TO: Counsel of the Applicant George Vegh McCarthy Tetrault LLP Toronto Dominion Bank Tower 66 Wellington Street West Box 48, Suite 5300 Toronto, ON M5K 1E6

 Tel:
 416-601-7709

 Fax:
 416-868-0673

 Email:
 gvegh@mccarthy.ca

AND TO: Kristyn Annis McCarthy Tetrault LLP Toronto Dominion Bank Tower 66 Wellington Street West Box 48, Suite 5300 Toronto, ON M5K 1E6

> Tel: 416.601.7624 Fax: 416.868.0673 Email: kannis@mccarthy.ca

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EB-2011-0027 EB-2011-0063 Motion by HCHI Page 1 of 2

IN THE MATTER OF the *Ontario Energy Board Act, 1998,* S.O. 1998, c. 15 (Schedule B)

AND IN THE MATTER OF an Application by Summerhaven Wind LP for an Order granting leave to construct a new transmission line and associated facilities for the Summerhaven Wind Energy Centre

AND IN THE MATTER of an Application by Grand Renewable Wind LP for an Order or Orders granting Leave to Construct new Transmission Facilities within Haldimand County, Ontario

AFFIDAVIT OF LLOYD PAYNE (Sworn the 28TH day of April, 2011)

I, LLOYD PAYNE, of the Town of Caledonia, Ontario, MAKE OATH AND SAY AS FOLLOWS:

- I am the President and Chief Executive Officer of the Moving Party, Haldimand County Hydro Inc. ("HCHI"), and as such have knowledge of the matters hereinafter deposed to. Where my knowledge is based on information and belief, I have indicated the source of the information and my belief as to its truth.
- 2. Attached hereto and marked as Exhibit "A" hereto is the list of projects, as announced by the Ontario Power Authority on April 8, 2010, to receive FIT Contracts.
- 3. Attached hereto and marked as Exhibit "B" hereto is the list of projects, as announced by the Ontario Power Authority on April 8, 2010, awaiting Economic Connection Test.
- 4. Attached hereto and marked as Exhibit "C" hereto is the list of projects, as announced by the Ontario Power Authority on February 24, 2011, to receive FIT Contracts.

EB-2011-0027 EB-2011-0063 Motion by HCHI Page 2 of 2

5. Attached hereto and marked as Exhibit "D" hereto is a copy of the report prepared for the British Columbia Ministry of Transportation titled "*Effects of High Voltage Transmission Line in Proximity of Highways*".

)

)

SWORN before me at

Ontario, this 28thday of

ā LLOYD PAYNE

April, 2011. Topanne Uneugdent

A Commissioner for Taking Affidavits

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LEEANNE BETTY VREUGDENHIL, a Commissioner etc., Province of Ontario for McCarthy & Fowler, Barrister & Solictors, Expires April 14, 2013 The attached is Exhibit "A" to the

Affidavit of Lloyd Payne, sworn before

me this 28th day of April, 2011.

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Cheugdenhil A Commissioner, etc.

Machine BETTY VREUGDENHIL, a commissioner etc., Province of Ontario MacCarthy & Fowler, Barrister & Solictors. As April 14, 2013

LEEANNE BETTY VREUGDENHIL, a Commissioner etc., Province of Ontario for McCarthy & Fowler, Barrister & Solictors. Expires April 14, 2013

FIT Contracts April 8 10 - Applicant Legal Name Order

Applicant Legal Name	Project Name	Project City	Project Source Nameplate Capacity (kW)) Region	Current State
			Solar PV Groundmount		
2176047 Ontario Inc.	2176047	Brockville		10,000 East	CONTRACT OFFERED
2176050 Ontario Inc.	2176050	Brockville	Solar PV Groundmount	9,000 East	CONTRACT OFFERED
2225045 Ontario Inc.	Welland Ridge Road	Welland	Solar PV Groundmount	10,000 Niagara	CONTRACT OFFERED
2225049 Ontario Inc.	Longueil TS Malbouef	Alfred	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225050 Ontario Inc	Norfolk Bloomburg TS	Simcoe	Solar PV Groundmount	10,000 Niagara	CONTRACT OFFERED
2225051 Ontario Inc.	Belleville TS Demorestville	Demorestville	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225053 Ontario Inc.	Napanee TS Taylor Kidd	Odessa (Millhaven)	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225054 Ontario Inc.	Kingston Gardiner TS Odessa	Odessa	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225055 Ontario Inc.	Kingston Gardiner Hwy2 North	Odessa	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225056 Ontario Inc.	Kingston Gardiner Hwy2 South	Odessa	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225128 Ontario Inc	Kingston Gardiner TS Unity Road	Elginburg (Glenburnie)	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225213 Ontario Inc.	Mississippi Mills Solar Park	Mississippi Mills	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225228 Ontario Inc.	Alfred	Alfred	Solar PV Groundmount	10,000 East	CONTRACT OFFERED
2225249 Ontario Inc	Burritts Rapids	Ottawa	Solar PV Groundmount	7,000 East	CONTRACT OFFERED
2225256 Ontario Inc.	Liskeard 1	Temiskaming Shores	Solar PV Groundmount	10,000 Northeast	CONTRACT OFFERED
2225342 Ontario Inc.	Liskeard 3	Timiskiming Shores	Solar PV Groundmount	10,000 Northeast	CONTRACT OFFERED
2225345 Ontario Inc.	Liskeard 4	Temiskaming Shores	Solar PV Groundmount	10,000 Northeast	CONTRACT OFFERED
5324827 Canada Inc.	Birch Creek Hydro	Webbwood	Water	1,000 Northeast	CONTRACT OFFEREI
5718710 Canada Corporation	Latchford Dam	Latchford	Water	838 Northeast	CONTRACT OFFEREI
5718710 Canada Corporation	Latchford Dam 2	latchford	Water	419 Northeast	CONTRACT OFFEREI
Alderville First Nation	Alderville 3	Alnwick Township	Solar PV Groundmount	5,000 East	CONTRACT OFFEREI
Amik-BBF HydroKap L.P.	Big Beaver Falls Hydroelectric Project	Kapuskasing	Water	5,500 Northeast	CONTRACT OFFEREI
Amik-CTR HydroKap L.P.	Camp Three Rapids Hydroelectric Project	Kapuskasing	Water	5,500 Northeast	CONTRACT OFFEREI
Big Thunder Wind Park LP	Big Thunder Beta Windpark	Municipality of Neebing	Wind On-Shore	16,500 Northwest	CONTRACT OFFEREI
Bow Lake Phase 1 Wind Farm Ltd.	Bow Lake Phase 1	Montreal River Harbour	Wind On-Shore	20,000 Northeast	CONTRACT OFFEREI
Bow Lake Phase 2 Wind Farm Ltd.	Bow Lake Phase 2a	Montreal River Harbour	Wind On-Shore	20,000 Northeast	CONTRACT OFFERE
Bow Lake Phase 2 Wind Farm Ltd.	Bow Lake Phase 2b	Montreal River Harbour	Wind On-Shore	20,000 Northeast	CONTRACT OFFERE
Bracebridge Generation Ltd.	Wilson Falls Generating Station	Bracebridge	Water	2,300 Central	CONTRACT OFFERE
Bracebridge Generation Ltd.	Bracebridge Falls Generating Station	Bracebridge	Water	2,000 Central	CONTRACT OFFERE
3WP Wind Limited Partnership	Merlin Wind Farm	Merlin	Wind On-Shore	10,000 West of London	CONTRACT OFFERE
Canadian Shield Wind Power Inc.	Little Brit Power	Sudbury	Wind On-Shore	1,500 Northeast	CONTRACT OFFERE
Capital Power GP Holdings Inc.	Port Dover and Nanticoke Wind Project	Walpole		105,000 Niagara	CONTRACT OFFERE
CLEAN BREEZE WIND PARK GRAFTON LP	CLEAN BREEZE WIND PARK GRAFTON	GRAFTON	Wind On-Shore	10,000 East	CONTRACT OFFERE
CLEAN BREEZE WIND PARK LP	CLEAN BREEZE WIND PARK	BALTIMORE	Wind On-Shore	12,500 East	CONTRACT OFFERE
Clearydale Farms	Clearydale Farms	Spencerville	Bio-Gas	498 East	CONTRACT OFFEREI
CLOUDY RIDGE WIND PARK LP	SKYWAY 126 WIND ENERGY	SINGHAMPTON	Wind On-Shore	10,000 Niagara	CONTRACT OFFEREI
Comber Wind Limited Partnership	Comber East - C24Z Wind Project	Town of Lakeshore	Wind On-Shore	82,800 West of London	CONTRACT OFFEREI
Comber Wind Limited Partnership	Comber West - C23Z Wind Project	Town of Lakeshore	Wind On-Shore	82,800 West of London	CONTRACT OFFEREI
Conestogo Wind, LP	Conestogo Wind Energy Centre	Alma	Wind On-Shore	23,000 Niagara	CONTRACT OFFERE
Confederation Power Inc.	Goulais Wind Farm	Sault Ste. Marie	Wind On-Shore	25,000 Northeast	CONTRACT OFFERE
Coughlin Controls Inc	Driftwood Power	Monteith	Water	400 Northeast	CONTRACT OFFERE
Cyntech Corporation	Black Bay Solar Project Phase 2	Dorion Township	Solar PV Groundmount	750 Northwest	CONTRACT OFFEREI
De Bruin Farms Ltd.	DeBruin Farms Biogas	Wolfe Island	Bio-Gas	360 East	CONTRACT OFFEREI
EFFISOLAR ENERGY CORPORATION	EffiSolar Brockville Solar Farm (10MW)	ELIZABETHTOWN-KITLEY	Solar PV Groundmount	10,000 East	CONTRACT OFFERE
EFFISOLAR ENERGY CORPORATION	EffiSolar Beckwith Solar Farm (10MW)	Township of Beckwith	Solar PV Groundmount	10,000 East	CONTRACT OFFERE
EFFISOLAR ENERGY CORPORATION	EffiSolar Cornwall Solar Farm A (10MW)	Township of South Glengarry	Solar PV Groundmount	10,000 East	CONTRACT OFFERE
Ernestown Windpark LP	Ernestown Wind Park	Ernestown	Wind On-Shore	10,000 East	CONTRACT OFFERE
Farm Owned Power (Melancthon) Ltd.	Farm Owned Power (Melancthon) Ltd.	Shelburne	Wind On-Shore	100,000 Niagara	CONTRACT OFFERE
erme Geranik Inc.	Ferme Geranik Biogas	St. Albert	Bio-Gas	499 East	CONTRACT OFFERE
Gilead Power Corporation	Ostrander Point Wind Energy Park	Prince Edward County	Wind On-Shore	24,000 East	CONTRACT OFFERE
Gillette Farms Inc.	Powerbase / Gillette Farms Inc	Embrun	Bio-Gas	498 East	CONTRACT OFFERE
GLEN MANOR WIND FARM LP	SUNNY SHORES SOLAR FARM	WELLINGTON	Solar PV Groundmount	10,000 East	CONTRACT OFFERE
Grand Valley Wind Farms Inc. on behalf of Grand Va	Grand Valley Wind Farms (Phase 2)	Dundalk	Wind On-Shore	10,800 Niagara	CONTRACT OFFEREI
GREY HIGHLANDS CLEAN ENERGY LP	GREY HIGHLANDS CLEAN ENERGY	SINGHAMPTON	Wind On-Shore	20,000 Niagara	CONTRACT OFFERE
GREY HIGHLANDS ZERO EMISSION PEOPLE LP	GREY HIGHLANDS ZERO EMISSION PEOPLE	SINGHAMPTON	Wind On-Shore	10,000 Niagara	LOON TO LOT OFFERE
Grimsby Energy Inc	las a seconda de la companya de la c				CONTRACT OFFERE
Haliburton Forest & Wild Life Reserve Ltd	Grimsby Bioreactor Project	Grimsby	Bio-Gas	1,000 Niagara	
	Grimsby Bioreactor Project Haliburton Forest Biopower 1	Grimsby Haliburton			CONTRACT OFFERE
High Falls Development Partnership		Haliburton	Bio-Gas	1,000 Niagara	CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE
· · ·	Haliburton Forest Biopower 1 High Falls Hydropower Development	Haliburton District of Rainy River	Bio-Gas Biomass Water	1,000 Niagara 775 Central 6,400 Northwest	CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE
Horizon Hydro LP	Haliburton Forest Biopower 1 High Falls Hydropower Development Trout Lake River Hydroelectric Project	Haliburton District of Rainy River Ear Falls	Bio-Gas Biomass Water Water	1,000 Niagara 775 Central 6,400 Northwest 4,000 Northwest	CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE
Horizon Hydro LP Hybridyne Power Generation Site A Inc.	Haliburton Forest Biopower 1 High Falls Hydropower Development Trout Lake River Hydroelectric Project HPG Site A	Haliburton District of Rainy River Ear Falls Brownsville	Bio-Gas Biomass Water Water Solar PV Groundmount	1,000 Niagara 775 Central 6,400 Northwest 4,000 Northwest 2,000 East	CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE CONTRACT OFFERE
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WHISPERING WOODS WIND FARM LP WHISPERING WOODS WIND FARM MILLBROOK Wind On-Shore 10,000 East CONTRACT OFFERED	Wendigo Power Partnership Inc.			Water	3,000 Northeast	CONTRACT OFFERED
	WHISPERING WOODS WIND FARM LP	WHISPERING WOODS WIND FARM	IVIILLBROOK	wind Un-Snore		

WIND FARM COLLIE HILL LP	WIND FARM COLLIE HILL	HASTINGS	Wind On-Shore	5,600	East	CONTRACT OFFERED
Windstream Wolfe Island Shoals Inc.	Wolfe Island Shoals Wind Farm	Marysville	Wind Off-Shore	300,000	East	CONTRACT OFFERED
WOOLWICH BIO-EN INC.	Woolwich Bio-En Inc.	Elmira	Bio-Gas	2,852	Niagara	CONTRACT OFFERED
wpd Canada Corp.	Ballyduff Wind Farm	Pontypool	Wind On-Shore	11,500	East	CONTRACT OFFERED
wpd Canada Corp.	Fairview Wind Farm	Stayner	Wind On-Shore	18,400	Niagara	CONTRACT OFFERED
wpd WF1 Inc.	Belwood Wind Farm	Fergus	Wind On-Shore	9,200	Niagara	CONTRACT OFFERED
wpd WF2 Inc.	Whittington Wind Farm	Orangeville	Wind On-Shore	6,900	Niagara	CONTRACT OFFERED
Xeneca Limited Partnership	McGraw Falls 2089284	Thunder Bay District	Water	2,400	Northwest	CONTRACT OFFERED
Xeneca Limited Partnership	Lapinigam Rapids 6712517	Hearst District	Water	8,200	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	At Soo Crossing 2154061	Sudbury District	Water	4,300	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Cascade Fall 1723378	Sudbury District	Water	2,100	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Ivanhoe River, Third Falls - 2118964	Cochrane District	Water	5,100	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	McPherson Fall 2154065	Sudbury District	Water	2,000	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Wanatango Falls 2124716	Cochrane District	Water	4,670	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Four Slide Falls Ltd 1713400	Elliot Lake City Limits - Sault Ste Marie Region	Water	7,300	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Wabageshik Rapid at Outlet Lake 1723377	Sudbury District	Water	3,400	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Middle Twp Buchan 6712541	Hearst District	Water	5,000	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Allen and Struthers 2130769	Alban Municipality, Sudbury District	Water	2,800	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Big Eddy at CPR Bridge	Petawawa	Water	5,300		CONTRACT OFFERED
Xeneca Limited Partnership	Ivanhoe River, The Chute - 2124750	Chapleau District	Water	3,600	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Marter Twp, Blanche River - 2154070	Kirkland Lake District	Water	2,100	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	McCarthy Chute 1713399 Ltd.	Elliot Lake City Limits - Sault Ste Marie Region	Water	2,000	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Near North Boundary Twp Buchan 6712568	Hearst District	Water	3,750	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Outlet Kapuskasing Lake 6773770	Chapleau District	Water	2,500	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Larder Lake & Raven Falls 2118966	Kirkland Lake District	Water	1,250	Northeast	CONTRACT OFFERED
Xeneca Limited Partnership	Half Mile Rapids PGED	Petawawa	Water	4,800	East	CONTRACT OFFERED
ZEP WIND FARM GANARASKA LP	ZEP WIND FARM GANARASKA	ORONO	Wind On-Shore	20,000	East	CONTRACT OFFERED

The attached is Exhibit "B" to the

Affidavit of Lloyd Payne, sworn before

me this 28th day of April, 2011.

heugelenhi A Commissioner, etc.

LEEANNE BETTY VREUGDENHIL, a Commissioner efc., Province of Onlario for McCarthy & Fowler, Barrister & Solictore. Expires April 14, 2013

FIT Awaiting ECT April 8 10 - Applicant Legal Name Order

Applicant Legal Name						
	Project Name	Project City	Project Source	Nameplate Capacity (kW) Region	Current State	Enabler Requeste
1037193 Ontario Ltd.	SouthPoint Wind Offshore Wind Project - Leamington	Leamintgon	Wind Off-Shore	10,000 West of London	AWAITING ECT	
1037193 Ontario Ltd.	SouthPoint Wind Offshore Wind Project - Kingsville	Leamintgon	Wind Off-Shore	10,000 West of London	AWAITING ECT	
1037193 Ontario Ltd.	SouthPoint Wind Offshore Wind Project - Union	Leamintgon	Wind Off-Shore	10,000 West of London	AWAITING ECT	
1795205 Ontario Inc.	A&T ENERGY Solar Farm (Harty)	Harty	Solar PV Groundmount	8,250 Northeast	AWAITING ECT	
131403 Ontario Corp.	Seaforth Wind Farm	Seaforth	Wind On-Shore	10,000 Bruce	AWAITING ECT	
176052 Ontario Inc.	2176052	Elizabethtown-Kitley	Solar PV Groundmount	10,000 East	AWAITING ECT	
176089 Ontario Inc.	2176089	Brockville	Solar PV Groundmount	10,000 East	AWAITING ECT	
186632 Ontario Inc.	Arthur Wind Farm	Arthur	Wind On-Shore		AWAITING ECT	
				6,000 Niagara		
224614 Ontario Inc.	Lakeport	Cobourg	Solar PV Groundmount	9,900 East	AWAITING ECT	
224772 Ontario Inc.	Meyer Wind Farm	Paisley	Wind On-Shore	4,000 Bruce	AWAITING ECT	
225046 Ontario Inc.	Welland Moyer Road	Welland	Solar PV Groundmount	10,000 Niagara	AWAITING ECT	
225047 Ontario Inc.	Axio CNP Stevensville West	Fort Erie	Solar PV Groundmount	10,000 Niagara	AWAITING ECT	
225048 Ontario Inc.	CNP Stevensville East	Fort Erie	Solar PV Groundmount	10,000 Niagara	AWAITING ECT	
225057 Ontario Inc.	Greely DS West	Osgoode (Greely)	Solar PV Groundmount	10,000 East	AWAITING ECT	
225059 Ontario Inc.	Wilhaven DS	Cumberland (Ottawa)	Solar PV Groundmount	10,000 East	AWAITING ECT	
				5,000 East	AWAITING ECT	
225211 Ontario Inc.	Laurentian Valley Solar Park	Pembroke	Solar PV Rooftop			
225212 Ontario Inc.	Renfrew Valley Solar Park	Renfrew	Solar PV Groundmount	10,000 East	AWAITING ECT	
225238 Ontario Inc	Greely	Ottawa	Solar PV Groundmount	10,000 East	AWAITING ECT	
225253 Ontario Inc.	Tillsonburg 2	Tillsonburg	Solar PV Groundmount	5,000 West of London	AWAITING ECT	
225338 Ontario Inc.	Liskeard 2	Timiskaming Shores	Solar PV Groundmount	10,000 Northeast	AWAITING ECT	
225348 Ontario Inc.	Liskeard 5	Temiskaming Shores	Solar PV Groundmount	10,000 Northeast	AWAITING ECT	
225350 Ontario Inc.	Liskeard 6	Temiskaming Shores	Solar PV Groundmount	10,000 Northeast	AWAITING ECT	
225352 Ontario Inc.	Perth Solar Power Park	Perth	Solar PV Groundmount	10,000 East	AWAITING ECT	
225355 Ontario Inc.	True Grid Solar 1	Marter	Solar PV Groundmount	10,000 Northeast	AWAITING ECT	
225357 Ontario Inc.	True Grid Solar 2	Marter Township	Solar PV Groundmount	8,000 Northeast	AWAITING ECT	
225544 Ontario Inc.	Bio-Carbon Plant Development	Kenora		2,000 Northwest	AWAITING ECT	
			Biomass			
225614 Ontario Inc.	GS-02 - Preston Farm	Edwards	Solar PV Groundmount	10,000 East	AWAITING ECT	
25615 Ontario Inc.	GS-03 - Willem Farm	Edwards	Solar PV Groundmount	10,000 East	AWAITING ECT	
225616 Ontario Inc.	GS-04 - Barbers Farm	Ottawa	Solar PV Groundmount	10,000 East	AWAITING ECT	
225617 Ontario Inc.	GS-05 - River Farm	Burritts Rapids	Solar PV Groundmount	10,000 East	AWAITING ECT	
25618 Ontario Inc.	Willow Hawk Solar Park	Tillsonburg	Solar PV Groundmount	10,000 West of London	AWAITING ECT	
25619 Ontario Inc.	Tillsonburg 1	Tillsonburg	Solar PV Groundmount	3,000 West of London	AWAITING ECT	
25712 Ontario Inc.	Schlegel Wind Farm 1	Huron Kinloss	Wind On-Shore	21,000 Bruce	AWAITING ECT	
				10,000 West of London	AWAITING ECT	
neresco Canada Wind Power, Inc	Ameresco Colchester 1	Harrow	Wind On-Shore			
neresco Canada Wind Power, Inc	Ameresco Colchester 2	Harrow	Wind On-Shore	10,000 West of London	AWAITING ECT	
mow Wind Power LP	Armow Wind Farm	Municipality of Kincardine	Wind On-Shore	80,000 Bruce	AWAITING ECT	
ran Wind Project ULC	Arran Wind Energy		Wind On-Shore	115,000 Bruce	AWAITING ECT	
		Burgoyne				
ACONSFIELD BREEZES WIND PARK LP	BEACONSFIELD BREEZES WIND PARK	BURGESSVILLE	Wind On-Shore	10,000 West of London	AWAITING ECT	
g Thunder Wind Park LP	Big Thunder Alpha Windpark	Municipality of Neebing	Wind On-Shore	16,500 Northwest	AWAITING ECT	
g Thunder Wind Park LP	Big Thunder Gamma Windpark	Municipality of Neebing	Wind On-Shore	15,000 Northwest	AWAITING ECT	
g Thunder Wind Park LP	Big Thunder Delta Windpark	Municipality of Neebing	Wind On-Shore	16,000 Northwest	AWAITING ECT	
g Thunder Wind Park LP	Big Thunder Epsilon Windpark	Municipality of Neebing	Wind On-Shore	15,000 Northwest	AWAITING ECT	
ornish Wind, LP	Bornish Wind Energy Centre	Keyser	Wind On-Shore	73,500 West of London	AWAITING ECT	
oulevard Associates Canada, Inc.	Goshen Wind Energy Centre	Dashwood	Wind On-Shore	102,000 Bruce	AWAITING ECT	
ulevard Associates Canada, Inc.	East Durham Wind Energy Centre	Priceville	Wind On-Shore	23,000 Bruce	AWAITING ECT	
oulevard Associates Canada, Inc.	Jericho Wind Energy Centre	Thedford	Wind On-Shore	150,000 West of London	AWAITING ECT	ENABLER REQUES
oulevard Associates Canada, Inc.	Bluewater Wind Energy Centre	Zurich	Wind On-Shore	60,000 West of London	AWAITING ECT	ENABLER REQUES
						Entropeent ne que es
ampton Brick Limited	Brampton Brick Welland Solar Rooftop Project	Welland	Solar PV Rooftop	2,500 Niagara	AWAITING ECT	
WP Wind Limited Partnership	Harwich Wind Farm	Blenheim	Wind On-Shore	10,000 West of London	AWAITING ECT	
WP Wind Limited Partnership	Flat Creek II Wind Farm	Blenheim	Wind On-Shore		AWAITING ECT	
				10,000 West of London		
VP Wind Limited Partnership	Flat Creek I Wind Farm	Blenheim	Wind On-Shore	8,000 West of London	AWAITING ECT	
WP Wind Limited Partnership	Walker Marsh Wind Farm	Cottam	Wind On-Shore	10,000 West of London	AWAITING ECT	
NP Wind Limited Partnership	Arner Green Wind Farm	Kingsville	Wind On-Shore	10,000 West of London	AWAITING ECT	
VP Wind Limited Partnership	Laurel Wind Farm	Laurel	Wind On-Shore	12,000 Niagara	AWAITING ECT	
VP Wind Limited Partnership	St. Joachim Wind Farm	St. Joachim	Wind On-Shore	10,000 West of London	AWAITING ECT	
VP Wind Limited Partnership	Oakland Wind Farm	Staples	Wind On-Shore	8,000 West of London	AWAITING ECT	
nadian Shield Wind Power Inc.	North Channel Winds	Gore Bay	Wind On-Shore	3,000 Northeast	AWAITING ECT	
pital Power GP Holdings Inc.	Kingsbridge II Wind Power Project	Goderich	Wind On-Shore			
					AWAITING FCT	
stor River Windfarm Inc.	Miller's Creek Wind Farm	Rainy River		270,000 Bruce	AWAITING ECT	
Course all Users as Ltd			Wind On-Shore	20,000 Northwest	AWAITING ECT	
es Counseil Homes Ltd.	Cargill G.S.	Cargill		20,000 Northwest	AWAITING ECT	
	Cargill G.S. Clipton Energy ED 6 0MW Site	Cargill East Huron	Water	20,000 Northwest 500 Bruce	AWAITING ECT AWAITING ECT	
nton Energy Ltd	Clinton Energy FD 6.0MW Site	East Huron	Water Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce	AWAITING ECT AWAITING ECT AWAITING ECT	
nton Energy Ltd dwell Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project	East Huron Marathon	Water Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
nton Energy Ltd Idwell Wind Limited Partnership	Clinton Energy FD 6.0MW Site	East Huron	Water Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce	AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
nton Energy Ltd Idwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C23Z Wind Project	East Huron Marathon Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
nton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C21J Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C23Z Wind Project Comber East - C21J Wind Project Comber East - C22J Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C21J Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber East - C221 Wind Project Comber West - C221 Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
Iton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C232 Wind Project Comber Vest - C221 Wind Project Comber Vest - C221 Wind Project Comber West - C224 Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C21J Wind Project Comber East - C22J Wind Project Comber West - C22J Wind Project Comber West - C24J Wind Project Comber West - C24J Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
Iton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C21J Wind Project Comber East - C22J Wind Project Comber West - C22J Wind Project Comber West - C24J Wind Project Comber West - C24J Wind Project	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London	AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT AWAITING ECT	ENABLER REQUES
toon Energy Ltd dwell Wind Limited Partnership ber Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber West - C221 Wind Project Comber West - C242 Wind Project Comber West - C242 Wind Project Comber West - C211 Wind Project Comber West - C211 Wind Project Comber West - Phase II	East Huron Marathon Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 82,800 West of London 82,800 West of London 18,400 West of London	AWAITING ECT AWAITING ECT	ENABLER REQUES
nton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C232 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C24Z Wind Project Comber West - C24Z Wind Project Comber West - C24Z Wind Project Comber West - Phase II Comber East - Phase II	East Huron Marathon Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London	AWAITING ECT AWAITING ECT	ENABLER REQUES
Iton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber West - C221 Wind Project Comber West - C242 Wind Project Comber West - C242 Wind Project Comber West - C211 Wind Project Comber West - C211 Wind Project Comber West - Phase II	East Huron Marathon Town of Lakeshore Town of Lakeshore	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 82,800 West of London 82,800 West of London 18,400 West of London	AWAITING ECT AWAITING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership ber Wind Limited Partnership mber Wind Limited Partnership mbr Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber East - C221 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C211 Wind Project Comber West - C211 Wind Project Comber West - Phase II Comber West - Phase II Comber West - Phase II	East Huron Marathon Town of Lakeshore Town of Lakeshore Malahide township	Water Wind On-Shore Bio-Gas	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London	AWAITING ECT AWAITING ECT	ENABLER REQUES
too Energy Ltd dwell Wind Limited Partnership ber Wind Limited Partnership mber Systems Ltd mtar Inc	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C322 Wind Project Comber East - C321 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C424 Wind Project Comber West - C421 Wind Project Comber West - C411 Wind Project Comber West - Phase II Comber East - Phase II Walker Digester Chaudier (Ottawa) Hydro Project No 2	East Huron Marathon Town of Lakeshore Town of Lakeshore Malahide township Ottawa	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Bio-Gas Water	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 5,600 [East	AWAITING ECT AWAITING ECT	ENABLER REQUES
Iton Energy Ltd dwell Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C232 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C24Z Wind Project Comber West - C212 Wind Project Comber West - Phase II Comber East - Phase II Comber East - Phase II Comber East - Phase II Comber Cast - Phase II Comber Cast - Phase II Comber Cast - Phase II Chaudière (Ottawa) Hydro Project No 2 Chaudière (Ottawa) Hydro Project No 5	East Huron Marathon Town of Lakeshore Town of Lakeshore Malahide township Ottawa Ottawa	Water Wind On-Shore Bio-Gas Water	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 5,600 [East 5,600 [East	AWAITING ECT AWAITING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership ber Wind Limited Partnership mber Wind Limited Partnership mber Wind Limited Partnership ber Wind Limited Partnership mber State State State mber State State State State State mber State State State State State mber Limited Partnership mber State State State mber State State State State State Mark State State State State State Mark State St	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C212 Wind Project Comber West - C211 Wind Project Comber West - Phase II Comber Fast - Phase II Comber East - Phase II Comber East - Phase II Chaudière (Ottawa) Hydro Project No 5 Chaudière (Ottawa) Hydro Project No 3	East Huron Marathon Town of Lakeshore Town of Lakeshore Malahide township Ottawa Ottawa Ottawa	Water Wind On-Shore Bio-Gas Water Water	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 18,400 West of London 1,000 Niagara 5,600 East 5,600 East 5,600 East	AWATING ECT AWATING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Linited Partnership mber Linited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C212 Wind Project Comber West - C211 Wind Project Comber West - Phase II Comber Fast - Phase II Comber East - Phase II Comber East - Phase II Chaudière (Ottawa) Hydro Project No 5 Chaudière (Ottawa) Hydro Project No 3	East Huron Marathon Town of Lakeshore Town of Lakeshore Malahide township Ottawa Ottawa Ottawa	Water Wind On-Shore Bio-Gas Water Water	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 18,400 West of London 1,000 Niagara 5,600 East 5,600 East 5,600 East	AWATING ECT AWATING ECT	ENABLER REQUES
ton Energy Ltd dwell Wind Limited Partnership ber Wind Limited Partnership nber Wind Limited Partnership ntar Inc mtar Inc mtar Inc	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C322 Wind Project Comber East - C322 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C421 Wind Project Comber West - C421 Wind Project Comber West - Phase II Walker Digester Chaudière (Ottawa) Hydro Project No 2 Chaudière (Ottawa) Hydro Project No 3 Chaudière (Ottawa) Hydro Project No 1	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Malahide township Ottawa Ottawa Ottawa Ottawa Ottawa	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Bio-Gas Water Water Water Water Water	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 18,400 West of London 5,600 East 5,600 East 5,600 East 5,600 East	AWAITING ECT AWAITING ECT	ENABLER REQUES
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ton Energy Ltd dwell Wind Limited Partnership ber Wind Limited Partnership mber Wind Limited Partnership	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C322 Wind Project Comber East - C322 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C421 Wind Project Comber West - C421 Wind Project Comber West - Phase II Walker Digester Chaudière (Ottawa) Hydro Project No 2 Chaudière (Ottawa) Hydro Project No 3 Chaudière (Ottawa) Hydro Project No 1	East Huron Marathon Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Town of Lakeshore Malahide township Ottawa Ottawa Ottawa Ottawa Ottawa	Water Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Bio-Gas Water Water Water Water Water	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 18,400 West of London 5,600 East 5,600 East 5,600 East 5,600 East	AWAITING ECT AWAITING ECT	ENABLER REQUES
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nton Energy Ltd Idwell Wind Limited Partnership mber Wind Partnership wir Lane Systems Ltd mtar Inc mtar Inc mtar Inc mtar Inc mtar Inc mtar Reger Partnership yden Renewable Energy Corp mond Solar Power Inc. FISOLAR ENERGY CORPORATION FISOLAR ENERGY CORPORATION FISOLAR ENERGY CORPORATION STIVAL WIND FARM LP rest Wind Power Inc. and Bend Wind LP.	Clinton Energy FD 6.0MW Site Coldwell Wind Project Comber East - C232 Wind Project Comber East - C211 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C221 Wind Project Comber West - C212 Wind Project Comber West - C212 Wind Project Comber West - C213 Wind Project Comber West - Phase II Walker Digester Chaudière (Ottawa) Hydro Project No 2 Chaudière (Ottawa) Hydro Project No 3 Chaudière (Ottawa) Hydro Project No 3 Chaudière (Ottawa) Hydro Project No 3 Chaudière (Ottawa) Hydro Project No 4 Chaudière (Ottawa) Hydro Pro	East Huron Marathon Town of Lakeshore Ottawa Orden Chatham Dryden Chatham Dryden Township of South Glengarry Township of South Glengarry Township of Suth Glengarry Town Bay Yitenna STRATFORD <	Water Wind On-Shore Water Water Water Biomass Wind On-Shore Wind On-Shore Solar PV Groundmount Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore Wind On-Shore	20,000 Northwest 500 Bruce 6,000 Bruce 100,000 Northwest 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 82,800 West of London 18,400 West of London 18,400 West of London 18,400 West of London 1,000 Niagara 5,600 East 5,600 East 5,600 East 5,600 East 15,000 Northwest 15,000 Northwest 10,000 Northeast 7,000 East 10,000	AWAITING ECT AWAITING ECT	ENABLER REQUES ENABLER REQUES ENABLER REQUES

Helios Project III Limited Partnership	Ottawa Solar Project	Ottawa	Solar PV Groundmount	10,000	East	AWAITING ECT	
Innergex renewable energy inc.		Greater Madawaska	Wind On-Shore	100,000		AWAITING ECT	ENABLER REQUESTED
Innergex renewable energy inc. Innergex renewable energy inc.		Greenstone Greenstone	Wind On-Shore Wind On-Shore		Northwest Northwest	AWAITING ECT AWAITING ECT	ENABLER REQUESTED ENABLER REQUESTED
Innergex renewable energy inc.			Wind On-Shore		Northeast	AWAITING ECT	ENABLER REQUESTED
Innerkip Windfarm Inc.	Innerkip Wind Farm	Innerkip	Wind On-Shore	19,000	Niagara	AWAITING ECT	
Integrated Gas Recovery Services Inc.	Essex Regional Landfill Gas Utilization	Essex	Landfill		West of London	AWAITING ECT AWAITING ECT	
International Power Canada, inc. International Power Canada, inc.		Annan Chatham-Kent	Wind On-Shore Wind On-Shore	46,800 99,000	West of London	AWAITING ECT	
International Power Canada, inc.		Dunnville	Wind On-Shore		Niagara	AWAITING ECT	
International Power Canada, inc.		Essex	Wind On-Shore		West of London	AWAITING ECT	
International Power Canada, inc. International Power Canada, inc.	Blue Sky Wind I Blue Sky Wind III	Essex Essex	Wind On-Shore Wind On-Shore		West of London West of London	AWAITING ECT AWAITING ECT	
International Power Canada, inc.	Belle River Wind	Lakeshore	Wind On-Shore		West of London	AWAITING ECT	
International Power Canada, inc.		Ripley	Wind On-Shore	125,000	Bruce	AWAITING ECT	
International Power Canada, inc.		Wallaceburg	Wind On-Shore		West of London	AWAITING ECT	
Kenogami Industries Inc. Kent Centre Wind Farm Inc.	Longlac Biomass Cogeneration Project Kent Centre Wind Farm	Longlac Blenheim	Biomass Wind On-Shore		Northwest West of London	AWAITING ECT AWAITING ECT	
Kerr's Ridge Windfarm Inc.	Kerr's Ridge Wind Farm	Mountain	Wind On-Shore	20,000		AWAITING ECT	
Kruger Energy Chatham II L.P.			Wind On-Shore		West of London	AWAITING ECT	
Lac Seul First Nation LAKESIDE BREEZES LP	Bluffy Lake Hydro WSR-2007-49 LAKESIDE BREEZES I	unorganized area IONA STATION	Water Wind On-Shore		Northwest West of London	AWAITING ECT AWAITING ECT	
LAKESIDE BREEZES LP	LAKESIDE BREEZES I	IONA STATION	Wind On-Shore		West of London	AWAITING ECT	
Lakewind Power Cooperative Inc.		Kincardine	Wind On-Shore	20,000		AWAITING ECT	
Liberty Energy Inc.	Liberty Energy Centre Phase 1	Hamilton	Biomass		Niagara	AWAITING ECT	
Loch Lomond Hydro LP Loch Lomond Wind Energy LP		Thunder Bay Thunder Bay	Water Wind On-Shore		Northwest Northwest	AWAITING ECT AWAITING ECT	
LongLake 58 First Nation	LongLake 1	Longlac	Solar PV Groundmount		Northwest	AWAITING ECT	
LongLake 58 First Nation	Long Lake 2	Longlac	Solar PV Groundmount	5,000	Northwest	AWAITING ECT	
Lower Lake Hydro Limited Partnership		Terrace Bay	Water		Northwest	AWAITING ECT	
Loyalist Wind Project LP Loyalist Wind Project LP		Milford Milford	Wind On-Shore Wind On-Shore	32,000		AWAITING ECT AWAITING ECT	
Mahekun Energy Limited Partnership		Calstock	Water		Northeast	AWAITING ECT	
Mainstream Sydenham Renewable Power Inc.	Sydenham Wind Energy Centre	RR5 Bothwell	Wind On-Shore	66,700	West of London	AWAITING ECT	
Majestic Energy Inc. (6736785 Canada Inc.)		Paisley	Wind On-Shore	2,000		AWAITING ECT	
Manitoulin Greenhead Windpark LP Marlborough Windfarm Inc.	Greenhead Wind Park Marlborough Wind Farm	Town of Northeastern Manitoulin and the Islands Richmond	Wind On-Shore Wind On-Shore	8,000	Northeast Fast	AWAITING ECT AWAITING ECT	
Maximum Breeze Energy Co-operative	Maximum Breeze	Lucan	Wind On-Shore	10,000		AWAITING ECT	
McLean's Mountain Wind L.P.	McLeans Mountain Wind Farm 4	Little Current	Wind On-Shore		Northeast	AWAITING ECT	
McLean's Mountain Wind L.P.		Little Current Little Current	Wind On-Shore Wind On-Shore		Northeast	AWAITING ECT AWAITING ECT	
McLean's Mountain Wind L.P. McLean's Mountain Wind L.P.	McLeans Mountain Wind Farm 6 McLeans Mountain Wind Farm 2	Little Current	Wind On-Shore		Northeast Northeast	AWAITING ECT	
Merlin Quinn Wind Power LP		TILBURY	Wind On-Shore		West of London	AWAITING ECT	
Michipicoten First Nation		Wawa	Water		Northeast	AWAITING ECT	
Morphy's Falls Windfarm Inc.	Beckwith Wind Farm	Carleton Place	Wind On-Shore	12,500		AWAITING ECT AWAITING ECT	
Multistream Power Corporation Muskoo Energy Limited Partnership	Fourth Chute GS Muskoo Project	Township of Bonnechere Valley Calstock	Water Water		Northeast	AWAITING ECT	
Neekik Energy Limited Partnership		Calstock	Water		Northeast	AWAITING ECT	
Neguaquon Lake Hydro Development Projects LP			Water		Northwest	AWAITING ECT	
New Liskeard Solar Power Inc. Nimaasing Wind Limited Partnership	New Liskeard Nimaasing Wind Project	New Liskeard Sault Ste Marie	Solar PV Groundmount Wind On-Shore		Northeast Northeast	AWAITING ECT AWAITING ECT	ENABLER REQUESTED
North Shore Power Group Inc.		Blind River	Solar PV Groundmount		Northeast	AWAITING ECT	ENABLER REQUESTED
NORTHERN LIGHTS WIND PARK LP		MARKDALE	Wind On-Shore	10,000		AWAITING ECT	
Northland Power Solar Brockville L.P.		Brockville	Solar PV Groundmount	10,000		AWAITING ECT	
Northland Power Solar Gold L.P. Northland Power Solar Hunta L.P.	Northland Power Solar Gold Northland Power Solar Hunta	Cochrane Hunta	Solar PV Groundmount Solar PV Groundmount		Northeast Northeast	AWAITING ECT AWAITING ECT	
Northland Power Solar Ramore L.P.	Northland Power Solar Ramore	Ramore	Solar PV Groundmount		Northeast	AWAITING ECT	
Northland Power Solar Smith Falls L.P.	Northland Power Solar Smith Falls L.P.	Jasper	Solar PV Groundmount	10,000		AWAITING ECT	
Northland Power Solar Theriault L.P.		Matheson	Solar PV Groundmount		Northeast	AWAITING ECT	
Ojibways of the Pic River First Nation Ojibways of the Pic River First Nation	High Falls Hydropower Development Manitou Falls Hydropower Development	Heron Bay Heron Bay	Water Water		Northwest Northwest	AWAITING ECT AWAITING ECT	
Ontario Clean Power Bonfield Inc. JV with Windstream Energy			Wind On-Shore		Northeast	AWAITING ECT	
Ontario Clean Power South River Inc. JV with Windstream End	South River Wind Farm Phase 2	Powassan	Wind On-Shore	10,000	Northeast	AWAITING ECT	
Ontario Clean Power South River JV with Windstream Energy		Powassan	Wind On-Shore		Northeast	AWAITING ECT	
Ontario Solar PV Fields 5 Limited Partnership Ontario Solar PV Fields 6 Limited Partnership	Mountjoy North Solar Park Dalton Road South Solar Park	Timmins Timmins	Solar PV Groundmount Solar PV Groundmount		Northeast Northeast	AWAITING ECT AWAITING ECT	
Ontario Solar PV Fields 8 Limited Partnership	Photon Solar Park	Kapuskasing	Solar PV Groundmount		Northeast	AWAITING ECT	
Penn Energy Renewables, Ltd.	Penn Energy - Eliza-Kitley_Brockville 1	Brockville	Solar PV Groundmount	10,000		AWAITING ECT	
Penn Energy Renewables, Ltd. Penn Energy Renewables, Ltd.	Penn Energy - Edwardsburgh_Brockville-2 Penn Energy - Edwardsburgh_Brockville-1	Edwardsburgh/Cardinal Edwardsburgh/Cardinal	Solar PV Groundmount Solar PV Groundmount	7,460 9,333	East	AWAITING ECT AWAITING ECT	
Penn Energy Renewables, Ltd.		Thunder Bay	Solar PV Groundmount		Northwest	AWAITING ECT	
PIONEER WIND PARK LP	PIONEER WIND PARK	Shedden	Wind On-Shore	10,000	West of London	AWAITING ECT	
POLAR BEAR WIND PARK LP			Wind On-Shore	20,000		AWAITING ECT	
Preneal Canada Inc. Quixote One Wind Energy Corp			Wind On-Shore Wind On-Shore	150,000 2,500		AWAITING ECT AWAITING ECT	ENABLER REQUESTED
Quixote Three Wind Energy Corp.		Clinton	Wind On-Shore	2,500		AWAITING ECT	
Quixote Two Wind Energy Corp.	Q2WEC	Kincardine	Wind On-Shore		Bruce	AWAITING ECT	
RE Adelaide 1 ULC		Strathroy	Solar PV Groundmount		West of London	AWAITING ECT	
RE Adelaide 1 ULC RE Adelaide 1 ULC		Strathroy Strathroy	Solar PV Groundmount Solar PV Groundmount		West of London West of London	AWAITING ECT AWAITING ECT	
RE Smiths Falls 3 ULC	RE Smiths Falls 3a	Smiths Falls	Solar PV Groundmount	1,000	East	AWAITING ECT	
RE Smiths Falls 3 ULC		Smiths Falls	Solar PV Groundmount	500		AWAITING ECT	
RE Smiths Falls 3 ULC RE Sunningdale 1 ULC		Smiths Falls Thorndale	Solar PV Groundmount Solar PV Groundmount	500	East West of London	AWAITING ECT AWAITING ECT	
RE Waubaushene 5 ULC		Coldwater	Solar PV Groundmount Solar PV Groundmount		Central	AWAITING ECT	
RE Waubaushene 5 ULC		Coldwater	Solar PV Groundmount	500	Central	AWAITING ECT	
RE Wonderland 1 ULC	RE Wonderland 1	London	Solar PV Groundmount			AWAITING ECT	
Redbird Energy Renfrew Power Generation Inc.	Redbird Energy SEGP Wind Farm First Chute	Billings Horton	Wind On-Shore Water	10,000	Northeast Fast	AWAITING ECT AWAITING ECT	
Renfrew Power Generation Inc.			Water	4,000		AWAITING ECT	
Ronald Dagg	Eirin Wind Farm	Forest	Wind On-Shore	10,000	West of London	AWAITING ECT	
Roubos Wind Energy Ltd.		Moorefield/Township of Wellington North	Wind On-Shore	1,200		AWAITING ECT	
Saturn Power Inc. Saturn Power Inc.	Forest Lea Solar Farm Goshen Solar Farm	Pembroke Renfrew	Solar PV Groundmount Solar PV Groundmount	6,500 5,000	Central Fast	AWAITING ECT AWAITING ECT	
				5,000			

Schneider Power Spring Bay Inc.	Spring Bay	Township of Central Manitoulin	Wind On-Shore	4,000 Northeast	AWAITING ECT	
Schouten Corner View Farms Ltd.	Schouten Corner View Farms Ltd.	Richmond	Bio-Gas	498 East	AWAITING ECT	
Schouten Dairy Farms Inc.	Schouten Dairy Farms Inc.	Richmond	Bio-Gas	498 East	AWAITING ECT	
Sequoia Loch Lomond Solar Energy LP	Giizis Power	Thunder Bay	Solar PV Groundmount	10,000 Northwest	AWAITING ECT	
Silvercreek Solar Park Inc.	Silvercreek Solar Park	Aylmer	Solar PV Groundmount	10,000 West of London	AWAITING ECT	
Sky Generation Inc.	Proof Line II	Forest	Wind On-Shore	3,600 West of London	AWAITING ECT	
SkyPower CL 1 LP	Crown Solar 1	Grant/Charlton	Solar PV Groundmount	10,000 Northeast	AWAITING ECT	
SkyPower Napanee Roads LP	Napanee Roads	Napanee	Solar PV Groundmount	10,000 East	AWAITING ECT	
SkyPower Otonabee LP	Otonabee	Peterborough	Solar PV Groundmount	10,000 East	AWAITING ECT	
Skyway 127 Wind Energy Inc.	Skyway 127	Port Elgin	Wind On-Shore	100,000 Bruce	AWAITING ECT	
Solar Semiconductor Inc.	Great Lakes One	Newburgh	Solar PV Groundmount	9,500 East	AWAITING ECT	
St. Catharines Hydro Generation Inc.	Shickluna Hydro Electric Generating Station	St. Catharines	Water	4,000 Niagara	AWAITING ECT	
St. Columban Energy LP	St. Columban 2 Wind Energy Project	Seaforth	Wind On-Shore	15,000 Bruce 18,000 Bruce	AWAITING ECT AWAITING ECT	
St. Columban Energy LP Summerhaven Wind, LP	St. Columban 1 Wind Energy Project Adelaide Wind Energy Centre	Seaforth Kerwood	Wind On-Shore Wind On-Shore	60,000 West of London	AWAITING ECT	
Suncor Energy Products Inc.	Camlachie Wind Power Project	Camlachie	Wind On-Shore	20,000 West of London	AWAITING ECT	
Suncor Energy Products Inc.	Cedar Point Wind Power Project Phase II	Forest	Wind On-Shore	100,000 West of London	AWAITING ECT	
Suncor Energy Products Inc.	Cedar Point Wind Power Project Phase I	Forest	Wind On-Shore	50,000 West of London	AWAITING ECT	
Suncor Energy Products Inc.	Adelaide Wind Power Project	Strathroy	Wind On-Shore	40,000 West of London	AWAITING ECT	
SunE James LP	SunE James	Township of Drummond	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE McGale LP	SunE McGale	Jasper	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE McWilliams LP	SunE McWilliams	Ottawa	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE Paddock LP	SunE Paddock	Jasper	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE Ray LP	SunE Ray	Township of North Elmsley	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE Saar LP	SunE Saar	Pembroke	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE South Stormont LP	SunE South Stormont	Newington	Solar PV Groundmount	10,000 East	AWAITING ECT	
SunE Steepe LP	SunE Steepe	Perth	Solar PV Groundmount	10,000 East	AWAITING ECT	
Superior Shores Wind Farm L.P.	Superior Shores Wind Farm	Heron Bay	Wind On-Shore	25,300 Northwest	AWAITING ECT	
Superior Windfarm LP	Superior Windfarm	Dorion	Wind On-Shore	13,800 Northwest	AWAITING ECT	
Teviotdale Wind Power Inc.	Teviotdale 1	Moorefield/Township of Wellington North	Wind On-Shore	10,000 Bruce 9,912 Central	AWAITING ECT	
Toronto Hydro Energy Services Inc. Toronto Hydro Energy Services Inc., OPPL	ABTP Biogas Cogen Plant Green Lane	Toronto St. Thomas	Bio-Gas Landfill	9,912 Central 9,912 West of London	AWAITING ECT AWAITING ECT	
TTD Wind Project ULC	Twenty Two Degree Energy	Holmesville	Wind On-Shore	150,000 Bruce	AWAITING ECT	
UDI Renewables Corporation	UDI Nanticoke Wind Farm	Nanticoke	Wind On-Shore	10,000 Niagara	AWAITING ECT	
Upper Canada Windfarm Inc.	Upper Canada Wind Farm	Lansdowne	Wind On-Shore	12,500 East	AWAITING ECT	
Vortex Wind Power Limited	Kefkatikgwam Mountain Phase 3	Nipigon	Wind On-Shore	20,000 Northwest	AWAITING ECT	ENABLER REQUESTED
Vortex Wind Power Limited	Kefkatikgwam Mountain Phase 1	Nipigon	Wind On-Shore	20,000 Northwest	AWAITING ECT	ENABLER REQUESTED
Vortex Wind Power Limited	Kefkatikgwam Mountain Phase 2	Nipigon	Wind On-Shore	20,000 Northwest	AWAITING ECT	ENABLER REQUESTED
Walpole Island First Nation	Wind Bkejer	Wallaceburg	Wind On-Shore	10,000 West of London	AWAITING ECT	
Weber Wind Farm Inc.	Weber Wind Farm	Mapleton	Wind On-Shore	10,000 Niagara	AWAITING ECT	
Westhills Power Corp.	Horton Solar Park	Renfrew	Solar PV Groundmount	10,000 East	AWAITING ECT	
Wikwemikong-Preneal Wind 100 LP	Wikwemikong 100 MW	Wikwemikong	Wind On-Shore	100,000 Northeast	AWAITING ECT	ENABLER REQUESTED
Wikwemikong-Preneal Wind 26 LP	Wikwemikong 26 MW	Wikwemikong	Wind On-Shore	26,000 Northeast	AWAITING ECT	
Wind Energy Niagara LTD.	Wainfleet Wind Power Development	Wainfleet	Wind On-Shore	10,000 Niagara	AWAITING ECT	
WIND FARM STONETOWN LP	WIND FARM STONETOWN	ST. MARYS	Wind On-Shore	10,000 West of London	AWAITING ECT	
Windstream Bruce Inc.	Bruce Peninsula Wind Farm	Municipality of South Bruce	Wind On-Shore	125,000 Bruce	AWAITING ECT	
Windstream Elk Lake Inc. JV with Windstream Energy Inc &		Elk Lake	Wind On-Shore	200,000 Northeast	AWAITING ECT	
Windstream North Inc.	Ranger Lake Wind Farm A Phase 2	Searchmont	Wind On-Shore	50,000 Northeast	AWAITING ECT	
Windstream North Inc. Windstream North Inc.	Ranger Lake Wind Farm B Phase 2 Ranger Lake Wind Farm A Phase 1	Searchmont Searchmont	Wind On-Shore Wind On-Shore	50,000 Northeast 50,000 Northeast	AWAITING ECT AWAITING ECT	
Windstream North Inc.	Ranger Lake Wind Farm B Phase 1	Searchmont	Wind On-Shore	50,000 Northeast	AWAITING ECT	
Windstream Temagami Inc. JV with Windstream Energy Inc		Best & Gillies Limit TWP/ Latchford	Wind On-Shore	100,000 Northeast	AWAITING ECT	
wpd Canada Corp.	Shiloh Wind Farm	Alvinston	Wind On-Shore	46,000 West of London	AWAITING ECT	
wpd Canada Corp.	Napier Wind Farm	Kerwood	Wind On-Shore	5,400 West of London	AWAITING ECT	
wpd Canada Corp.	Petrolia Wind Farm	Petrolia	Wind On-Shore	18,400 West of London	AWAITING ECT	
wpd Canada Corp.	Wilkesview Wind Farm	Sombra	Wind On-Shore	13,800 West of London	AWAITING ECT	
Xeneca Limited Partnership	Quibell: Lots 2 & 6 Con III-V Wabigoon - 2127613	Dryden District	Water	4,500 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Island Falls 2130760	Fort Frances District	Water	3,000 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Long Rapids 2130752	Fort Frances District	Water	3,600 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Wabigoon Falls - 6774008	Kenora District	Water	3,900 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Above Ball Lake 2127580	Kenora District	Water	4,100 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Jocko River - 2089282	North Bay District	Water	4,400 Northeast	AWAITING ECT	
Xeneca Limited Partnership	Flower Falls - 2125852	Sioux Lookout District	Water	9,900 Northwest	AWAITING ECT	
Xeneca Limited Partnership	7th - 5th Falls	Sioux Lookout District	Water	6,400 Northwest	AWAITING ECT	
Xeneca Limited Partnership	12th Falls - 8th Falls - 2125855	Sioux Lookout District	Water	5,800 Northwest	AWAITING ECT	
Xeneca Limited Partnership	13th Fall McDougall Mills 2188163	Sioux Lookout District	Water	3,000 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Shabaqua Corner 2124726	Thunder Bay District	Water	2,400 Northwest	AWAITING ECT	
Xeneca Limited Partnership	Roaring Rapids 3.2km from Mouth 2118969	Thunder Bay District	Water	5,100 Northwest	AWAITING ECT	ENABLER REQUESTED
Xeneca Limited Partnership	Kamiskotia Falls 2130765	Timmins District	Water	3,800 Northeast	AWAITING ECT	
Xeneca Limited Partnership ZERO EMISSION PEOPLE PLEASANT BAY LP Zurich Wind Power LP	Kamiskotia Falls 2130765 ZERO EMISSION PEOPLE PLEASANT BAY Zurich Wind Farm	Timmins District WELLINGTON Municipality of Bluewater	Water Wind On-Shore Wind On-Shore	20,000 East 37,500 Bruce	AWAITING ECT AWAITING ECT AWAITING ECT	

The attached is Exhibit "C" to the

Affidavit of Lloyd Payne, sworn before

me this 28th day of April, 2011.

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 $\it O$ Uneugdenhi A Commissioner, etc.

LEEANNE BETTY VREUGDENHIL, a Commissioner etc. Province of Ontario for McCarthy & Foc. er. Baroster & Soliciona. Expires April 14, 2014

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FIT Contracts Offered February 24 - Applicant Legal Name Order

Applicant Legal Name	Project Name	Project City	Project Source	Nameplate Capacity (kW) R	Region	Current State
Aria LP	Aria	Elmvale	Solar PV Groundmount	9,000 Ce	-	CONTRACT OFFERED
Atlantic Packaging Products Ltd.	Atlantic Packaging - 5711 Atlantic Dr	Mississauga	Solar PV Rooftop	500 Ce		CONTRACT OFFERED
Atlantic Packaging Products Ltd.	Atlantic Packaging - 1900 Thickson Rd	Whitby	Solar PV Rooftop	500 Ea		CONTRACT OFFERED
Balsam Lake Green Energy	Balsam Lake Green Energy Solar Farm	Kawartha Lakes	Solar PV Groundmount	3,000 Ce		CONTRACT OFFERED
BeamLight LP	BeamLight	Georgina	Solar PV Groundmount	10,000 Ce		CONTRACT OFFERED
Canadian Solar Developers Ltd.	Canadian Solar Developers Ltd. L.P. #15	Barrie	Solar PV Groundmount	250 Ce		CONTRACT OFFERED
Canadian Solar Developers Ltd.	Canadian Solar Developers Ltd. L.P. #16	Barrie	Solar PV Groundmount	250 Ce	Central	CONTRACT OFFERED
Canadian Solar Developers Ltd.	Canadian Solar Developers Ltd. L.P. #17	Barrie	Solar PV Groundmount	250 Ce	Central	CONTRACT OFFERED
CityLights LP	CityLights	Chesterville	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
DiscoveryLight LP	DiscoveryLight	Thorah	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
EarthLight LP	EarthLight	Pefferlaw	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
FotoLight LP	FotoLight	Prince Edward County	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
GoldLight LP	GoldLight	Georgina	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
GoodLight LP	GoodLight	Eldon	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
Illumination LP	Illumination	Scugog	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
LunarLight LP	LunarLight	Belleville	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
MightySolar LP	MightySolar	Chesterville	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
Nigig Power Corporation	Nigig Power Corporation	Pickerel	Wind On-Shore	300,000 Ce	Central	CONTRACT OFFERED
Penn Energy Renewables, Ltd.	Penn Energy - Ridgefield	Kawartha Lakes	Solar PV Groundmount	8,000 Ce	Central	CONTRACT OFFERED
Penn Energy Renewables, Ltd.	Penn Energy - Brantgate	Burford Township	Solar PV Groundmount	5,000 Ni	liagara	CONTRACT OFFERED
Penn Energy Renewables, Ltd.	Penn Energy - Brantgate (i-1)	Burford Township	Solar PV Groundmount	2,000 Ni	liagara	CONTRACT OFFERED
Penn Energy Renewables, Ltd.	Penn Energy - Brantgate (i-2)	Burford Township	Solar PV Groundmount	1,000 Ni	liagara	CONTRACT OFFERED
Penn Energy Renewables, Ltd.	Penn Energy - VanDorp	Port Hope	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
Penn Energy Renewables, Ltd.	Penn Energy - Roseplain	Uxbridge	Solar PV Groundmount	6,500 Ce	Central	CONTRACT OFFERED
Perpetual Energy Systems, LLC	Perpetual Cleanpower Lindsay	Lindsay	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
Perpetual Energy Systems, LLC	Perpetual Cleanpower Oro 4 Line	Oro-Medonte	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
RayLight LP	RayLight	Wyebridge	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
Renewable Energy Business (R.E.B.) Limited	Niagara Region Wind Farm	Smithville	Wind On-Shore	230,000 Ni	liagara	CONTRACT OFFERED
Saturn Power Inc.	David Brown Solar Park	Ingleside	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
SOLAR SPIRIT LP	SOLAR SPIRIT 4	Belleville	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
Solray Energy Corporation	Solray Energy Forfar 3	Forfar	Solar PV Groundmount	500 Ea	ast	CONTRACT OFFERED
Solray Energy Corporation	Solray Energy Epsom	Port Perry	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
Solray Energy Corporation	Solray Energy Sunderland	Beaverton	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
SparkleLight LP	SparkleLight	Kawartha Lakes	Solar PV Groundmount	10,000 Ce	Central	CONTRACT OFFERED
SunE Ray LP	SunE Newboro 1	Drummond	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
SunE Ray LP	SunE Newboro 4	Rideau Lakes	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
SunE South Stormont LP	SunE Bruining 1	Ingleside	Solar PV Groundmount	10,000 Ea	ast	CONTRACT OFFERED
Timber Run Hydropower Corporation	Norland Dam Hydropower Development	Kawartha Lakes	Water	500 Ce	Central	CONTRACT OFFERED
UDI Renewables Corporation	UDI Port Ryerse Wind Farm	Simcoe	Wind On-Shore	10,000 Ni	liagara	CONTRACT OFFERED
Windlectric Inc.	Amherst Island Wind Project	Stella	Wind On-Shore	75,000 Ea	ast	CONTRACT OFFERED

The attached is Exhibit "D" to the

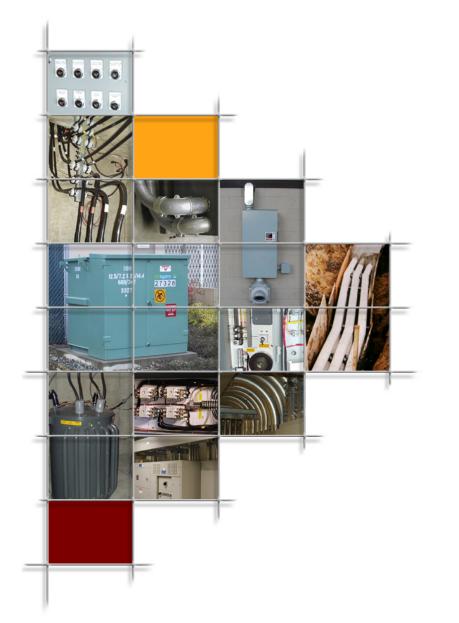
Affidavit of Lloyd Payne, sworn before

me this 28th day of April, 2011.

Cheugdenhil leane A Commissioner, etc.

LEEANNE BETTY VREUGDENHIL, a Commissioner etc. Province of Ontario for McCarthy & Fowler. Barrister & Solictors. Expires April 14, 2013

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Submitted to



Ministry of Transportation

Submitted By



DMD & Associates Ltd. Surrey, BC

> 1369-05 September 30, 2005

BC Ministry of Transportation

Executive Summary

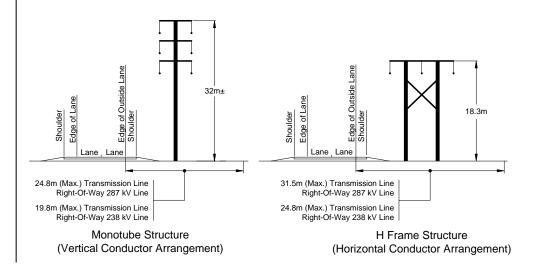
This study is a follow-up to the 2001 *Review of Overhead Transmission Lines in Highway Right-of-Ways* report undertaken by DMD and Associates Ltd. The original report reviewed issues and impacts of locating 138kV (and smaller) transmission lines within Ministry right-of-way's. The purpose of this follow-up report is to define impacts and required clearances from 230 kV and 287 kV transmission lines to Ministry roadways and buildings.

This study is a joint effort between DMD and Associates Ltd and Lex Engineering Ltd with design calculations undertaken by Detmold Consulting Ltd. Calculations were undertaken to verify corona inception, radio interference, audio noise, magnetic field and electric field so clearance from transmission lines to the traveled roadway can be defined. Results calculated were within industry standards and practice.

Relaxing MoT's policy to allow transmission lines rated at 230kV and 287kV within a highway right-of-way should have little effect on normal highway operations and the general public. However, the existence of a transmission line within the highway right-of-way will effect the placement of parallel utilities, mainly communications systems. Future building placement will also be impacted.

Based on calculations for single circuit transmission, for a transmission line with the conductors arranged horizontally on an 18m high structure, the right-of-way requirements would be approximately 24.8m for a 238kV line and 31.5m for a 287kV line assuming a tangent road cross-section. If the conductors are arranged vertically, on a 32m high mono-tube structure the requirements would be 19.8m for a 238kV Line and 24.8m for a 287kV line. These right-of-way distances would be measured from the edge of travel lanes. Additional right-of-way will be required for curved road sections.

A formal submittal shall be made where there is a request for placement of a transmission line within a MoT right-of-way or in proximity to a highway. Calculations and designs should be undertaken based on established design criteria (copy in appendix) and submitted for review. The design criteria would serve as a basis for acceptance.







BC Ministry of Transportation

TABLE OF CONTENTS

EXECUTIVE SUMMARY

STUDY

1. Introduction	Page 1
2. Define pole/structure and line configurations	Page 1
3. Electrical and Magnetic Effects	Page 3
4. Right of Way Requirements	Page 4
5. Vertical Transmission Clearances	Page 6
6. Impacts on Other Utilities	Page 7
7. Impacts on Highways Maintenance	Page 7
8. Review of all Applicable Codes and Regulations	Page 8
9. Survey of the practice of Other Jurisdictions in North America	Page 9
10. Impacts on Other Utilities & Crossings	Page 9
11. 500kV Transmission Lines F	Page 10
12. Highway 37 Corridor	Page 10
13. Conclusions	² age 10

APPENDIX

Design Criteria BC Hydro Standards Utility Policies Survey Calculations Sketches 1A, 1B, 2A & 2B





BC Ministry of Transportation

1. Introduction	This study is a follow-up to the 2001 <i>Review of Overhead Transmission Lines in Highway Right-of-Ways</i> report undertaken by DMD and Associates Ltd. The original report reviewed issues and impacts of locating 138kV (and smaller) transmission lines within Ministry right-of-way's. The purpose of this follow-up report is to define impacts and required clearances from 230 kV and 287 kV transmission lines to Ministry roadways and buildings. We have undertaken calculations to verify required horizontal clearance between transmission lines and the traveled roadway.
	The information in this report is a joint effort between DMD and Associates Ltd. and Lex Engineering Ltd. Calculations were undertaken by Detmold Consulting Ltd.
2. Define pole/structure and line configurations	Various pole configurations exist for supporting transmission lines of 138 kV or greater. Some example configurations are lattice towers, steel mono-tube structures and wood H-frame structures as shown in the photos below.
	Overhead transmission lines require a separation between the overhead conductors which transmit the power in separate three phase circuits. Each of these three phase circuits will typically require a minimum of 6.7m separation for voltages of 230 kV and above. This separation can be achieved by stacking the conductors vertically or horizontally. The photographs on page 2 show various scenarios. The arrangement of the conductors typically defines the type of structure.
	There is no simple method for determining what configuration is used in any given area, without going through a detailed design. Each pole line is designed for the specifics of the area, voltage and number of conductors and circuits. Some factors which impact the type of structure are soils, grades, right-of-way width, wind pressures, ambient temperature range, seismic zone, etc.
	Steel mono-tube structures are typically used in an urban setting where development is located on one side of the pole line and the road is on the other side. These structures have three groups of conductors stacked vertically above each other. This requires a very tall pole to provide the required vertical clearances. The main advantage of mono-tube structures is that they can be set at greater distance apart requiring fewer poles. As well, the horizontal foot- print of the structure is relatively small and as such can be used in narrow urban right-of-ways. The disadvantages are the relatively high cost and tall poles which are typically more visible. Steel mono-tube Y type structures will allow conductors to be arrayed horizontally and as such may reduce structure height.
	Wood H-frame structures are typically used in rural areas where lower mounting heights and shorter spans between poles can be applied. Wood H- frame structures are far cheaper than steel mono-tube or lattice type structures and as such are typically the most cost effective option. Conductors are only arrayed horizontally thus reducing the required mounting heights.
	Lattice type structures are typically used in both mono-tube and wood H-frame structure applications. They will typically have a much larger foot print than mono-tube or H frame structures. Conductors can be arrayed vertically or horizontally with a lattice structure.



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An order of magnitude installation cost per kilometer with wood H-structures would be approximately \$200K to \$400K per kilometer. In comparison, an installation with steel mono-tube or lattice poles would be approximately \$300K to \$600K per kilometer. We would caution that the above costs may vary drastically depending on the type of soils, grades, right-of-way width, wind pressures, seismic zone, etc and should not be used for cost estimation. These costs are for the installation of the poles and conductors only and don't include right-of-way costs, cost for clearing, etc.

Poles with a vertical conductor arrangement will require higher mounting heights than those with horizontal conductor arrangement.

A line constructed with mono-tube structures will typically be more expensive to construct, however, this type of structure has advantages in urban areas with limited right-of-way, or where longer spans between poles are required, or where additional vertical clearances are required for highway crossings.

In terms of maintaining the required clear zone, a Y or Mono-tube structure will be much better suited to narrow urban right-of-ways. The clear zone should apply not only to the transmission structures, but also to the associated guys and anchors. The selection of a particular structure design should be the responsibility of the transmission line designer.



230kV Double Cct Mono-tube Steel Pole (Right Side of Photo) – Vertical Conductor Spacing



500kV Single Circuit Steel Lattice Tower (Left Structure) – Horizontal Conductor Spacing 230kV Double Circuit Steel Lattice Tower (Right Structure) – Vertical Conductor Spacing



230kV Single Circuit Wood Pole H-Frame – Horizontal Conductor Spacing



500kV Single Circuit Steel 'Y' Structure – Horizontal Conductor Spacing



STUDY

Effects of High Voltage Transmission Line In Proximity of Highways

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3. Electrical and Magnetic Effects

To verify the required offsets and clearances, we have undertaken transmission line calculations using transmission line design software. Calculations undertaken include corona inception, radio interference, audible noise, electric field and magnetic fields. In all cases, the results for both 238kV and 287kV transmission lines are within recommended guidelines based on offsets shown on sketches 1A, 1B, 2A and 2b which are in the Appendix.

Commentary on the calculations is as follows:

- **Corona Inception**: Corona is the ionization of the air close to an energized conductor caused when the voltage gradient of the conductor is high enough to pull the electrons of the air molecules out of their orbits (producing ions). The voltage gradient at which this happens is the corona inception gradient. This is why the maximum voltage gradient of the conductor should be below the corona inception gradient. This is to avoid radio interference. Based on our calculations, the maximum voltage gradients are below the positive corona inception.
- **Radio Interference**: Values were calculated at 15m outside the outer conductor (closest to the road) and meet CSA maximum allowable radio interference levels in fair weather (CSA doesn't define requirement in foul weather). Any MoT Guidelines should include a statement that the transmission line is to be designed to comply with CSA standards for Maximum Allowable Radio Interference (Fair Weather).
- Audible Noise: This would not be an issue on a typical highway. However, it could be of concern in residential areas where local noise bylaws are present. The calculations undertaken do include noise levels. However, the audible noise from the transmission lines would be far less impacting than the sound from the traffic itself.
- **Electric Field**: This is the most critical element. The electric field strength within the right-of-way has been calculated and is shown on each of the sketches attached. The calculated levels at the edge of the driving lanes are:
 - i. Sketch 1A- 1.2kV/m
 - ii. Sketch 2A- 1.1kV/m
 - iii. Sketch 1B- 1.4kV/m
 - iv. Sketch 2B- 1.7kV/m

In our report, we will define maximum levels that would apply to the traveled portion of the roadway and pull-outs, parking areas, etc. It appears that a common standard in the US is a maximum 10kV/m at the edge of the roadway. The *BC Hydro Transmission Engineering, Technical Procedures Manual* recommends the electric field at the edge of the right-of-way shall not exceed 10kV/m. We recommend the electrical field not exceed 5kV/m at edge of roadway and / or right-of-way which in this case would be met.

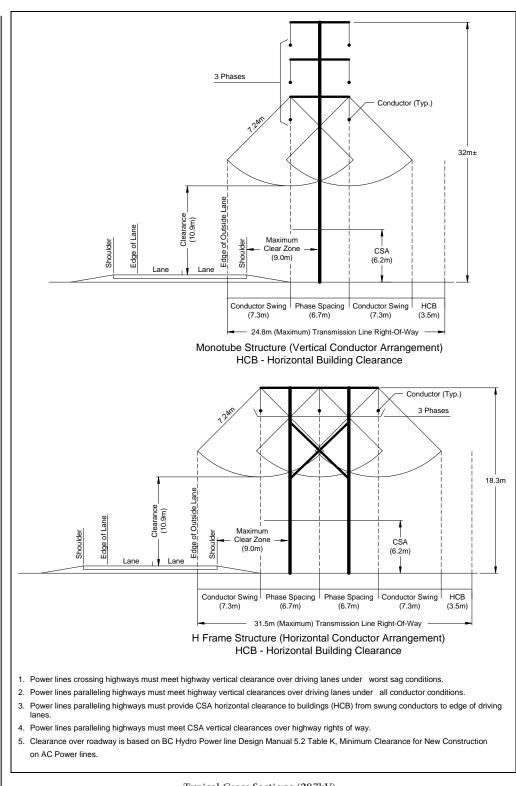


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Vehicle fueling could be an issue only for large vehicles parked parallel to the transmission line. The induced voltage between a large transport truck and a fuel truck could conceivably be large enough to cause a spark. This problem can easily be eliminated by attaching a ground wire between the two vehicles during refueling. In general, we would not recommend locating vehicle fueling facilities under or immediately adjacent to power lines. Magnetic Field: This is another key element to consider. The magnetic field strength within the right-of-way has been calculated and is shown on sketches 1A, 1B, 2A and 2b. The calculated levels at the edge of the driving lanes are: Sketch 1A-95 milliGauss v. vi. Sketch 2A- 65 milliGauss vii. Sketch 1B- 125 milliGauss viii. Sketch 2B-85 milliGauss US Standards appear to be a maximum of 150 or 200 milliGauss at the edge of the highway right-of-way. To put this in perspective, 1000 milliGauss is the maximum general public exposure where interference with human heart pacemakers can occur. The magnetic field is another safety issue, and as such the maximum field level that would apply to the traveled portion of the roadway and pull-outs, parking areas, etc should not exceed 200 milliGauss which in this case would be met. As with all these effects, it is critical that calculations be undertaken on a per project basis to verify impacts. 4. Right of Way The main issues in determining the right-of-way is determining the horizontal and vertical clearances from the traveled portion of the roadway, including Requirements allowance for conductor swings out over the roadway. To determine this clearance, we have retained the services of a transmission line designer to undertaken calculations using transmission design software. Based on calculations for single circuit transmission, for a transmission line with the conductors arranged horizontally, the right-of-way requirements would be approximately 24.8m for a 238kV line and 31.5m for a 287kV line assuming a tangent road cross-section. If they conductors are arranged vertically, on a mono-tube structure the requirements would be 19.8m for a 238kV Line and 24.8m for a 287kV line. These right-of-way distances would be measured from the outside edge of travel lanes. Additional right-of-way will be required for curved road sections. Typical road cross sections with mono-tube and H-frame structures are defined below.



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Typical Cross Sections (287kV)



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All poles, guys, anchors and other power line components subject to physical damage should be installed beyond the MoT designated clear zone for the roadway in question.

	Minimum Clear Zone Width (m)							
Design AADT		Design Speed (km/h)						
Ũ	60	70 to 80	90	100	110 to 120			
Under 750	2.0	3.0	4.0	5.0	6.0			
750-1500	3.0	4.0	5.0	6.0	7.0			
1501-6000	4.0	5.0	6.0	8.0	9.0			
over 6000	5.0	6.0	7.0	9.0	9.0			

MoT Clear Zone	(from Tech	Bulletin	DS96001)
	(

5. Vertical Transmission Clearances

Overhead transmission can run parallel with the road or highway and cross the road or highway provided the required vertical clearances listed below are achieved and poles are located outside of the MoT clear zone. Note that running transmission lines over buildings will require special permission from the *British Columbia Safety Authority* which is not typically granted.

Vertical clearances of overhead lines from ground surface or pavement crown shall conform to **BC Hydro Transmission Engineering**, **Technical Procedures Manual** – *5.2 Table K Minimum Clearances for New Construction on AC Power Lines*. The clearances specified in *CAN/CSA-C22.3 No. 1-01* are minimum requirements and in certain situations these standards are considered too low and have therefore been modified by BC Hydro to suit conditions in BC. Vertical clearances should be increased accordingly if there is any possibility of future under building with another power line or a communications line. A copy of the *BC Hydro Transmission Design Manual* – *5.2 Table K* is located in the appendix.

	Voltage Class (Phase to Phase)			
Crossing Over	230kV	287kV		
Land Accessible to:				
Vehicles and Equipment -	7.1m	7.5m		
Pedestrians Only -	6.0m	6.4m		
Roads – where no provision is				
made for future power lines along:				
Minor Roads	7.9m	8.3m		
Highways	10.5m	10.9m		
Roads – where provision is made				
for future power lines up to 25kV				
along:				
Minor Roads and Highways	13.6	14.1m		
Logging and Mining Roads	L + 3.5m	L + 3.9		
(L = load height)				

Minimum Vertical Clearance of Transmission Lines (From BCH 5.2 Table K)

Minimum distances between electrical power lines and any highway structure shall conform to WCB regulations; the distances are summarized below. Special



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precautions and proper work procedure must still be followed even if minimum clearance distances are maintained. WCB clearances would also be an issue where transmission lines run over buildings or MoT signal, lighting and sign poles.

Voltage (Phase to Phase)	Minimum Distance (Meters)
0 to 750	1.0
Over 750 to 75,000	3.0
Over 75,000 to 250,000	4.5
Over 250,000 to 550,000	6.0

Minimum WCB Clearances from Overhead Lines

When defining vertical clearances future development as well as other utilities will impact clearances and must be considered.

6. Impacts on Other Utilities

BC Hydro policy would not permit placing a distribution circuit (25kV or less) on the same structures as 138kV and higher voltage lines. The distribution line would have to be on the opposite side of the highway.

Communications lines along the power line would have to be ADSS (all dielectric).

The purpose of the two requirements above is to avoid unsafe induction voltages on the distribution or communications systems.

Pipelines would have to be separated from any transmission line 66kV and up by 10m minimum horizontally as per *CAN/CSA22.3 No.6*. This is to provide adequate working space for pipeline maintenance.

7. Impacts on Highways Maintenance

In very heavy snow areas, snow removed from the road should not be piled directly under the transmission line to a depth which would reduce clearances below code clearances for a person standing on the snow bank.

Over height equipment moved along the highway could be a problem for the line designs relying on vertical separation. The problems that normally relate to line crossings would now also be a concern continuously along one side of the highway.

We had contacted various MoT District Highway Operations staff and the Road and Bridge Maintenance Contractor, Yellowhead Road and Bridge in Fort St John, where recent 138kV transmission lines have been installed to discuss concerns / issues. No maintenance issues or concerns where registered.

Power line maintenance should have little impact on highway operations and maintenance as any work to the line would be done off the highway.



Effects of High Voltage Transmission Line In Proximity of Highways

BC Ministry of Transportation

8. Review of all Applicable Codes and Regulations

The Provincial and National standards that regulate and/or recommended minimum standards for the design, construction, operation and maintenance of transmission lines and other utilities and structures in the vicinity of transmission lines are as follow:

- *CAN/CSA-C22.3 No. 1-01 Overhead Systems* which covers the requirements for construction of overhead systems. The *BC Hydro Transmission Engineering: Technical Procedures* would normally be used for design purposes because it has more stringent requirements than *CAN/CSA 22.3*. The BC Hydro standards are also more detailed than the *CAN/CSA 22.3* and as such are an excellent guideline for those designing a transmission line.
- BC Hydro Transmission Engineering: Technical Procedures Vertical Clearances for Overhead Lines on BC Hydro Transmission Systems covers the minimum vertical clearance of AC transmission lines crossing over land, roads, railways, pipelines and other wires. Since BC Hydro's standards for vertical clearance are more stringent than CAN/CSA-C22.3 No. 1-01, BC Hydro Technical Procedures are recommended.
- *Industrial Health and Safety Regulations, Workers Compensation Board (WCB)* covers minimum distances between exposed, energized high voltage electrical equipment and conductors and any worker, work, tool, machine, equipment or material. This will typically apply to signal and lighting poles.
- *CAN/CSA-C22.3 No. 3-98 Electrical Coordination* which covers the principles and practices applicable for the purpose of effecting electrical coordination between organizations that operate electrical supply or communication systems. It addresses power system influences due to electrical, magnetic and conductive coupling between the two systems during normal power system operation as well as abnormal or fault conditions. This Standard also provides guidelines to mitigate these power system influences thereby reducing shock hazards and equipment failures. When dealing with transmission lines 230kV and above it is likely only fibre optic cables can be installed in the right-of-way as they will not be impacted by the transmission lines
- *CAN/CSA-C22.3 No. 5.1-93 Recommended Practices for Electrical Protection - Electric Contact Between Overhead Supply and Communication Lines* covers the principles and general practices of electrical protection applicable to overhead supply systems operating at more than 750V but less than 50kV phase to phase and communication systems. When these principal are applied it is intended to minimize the risk associated with electrical contact. However, if contact does occur it ensures that the contact voltage does not exceed a predetermined limit therefore providing a degree of protection to people, property and equipment. When dealing with transmission lines 230kV and above it is likely only fibre optic cables can be installed in the right-of-way as they will not be impacted by the transmission lines.



Effects of High Voltage Transmission Line In Proximity of Highways

BC Ministry of Transportation

• *CAN/CSA-C22.3 No. 6-M91 Principles and Practices of Electrical Coordination Between Pipelines and Electric Supply Lines* which covers methods of electrical coordination between pipelines and power lines having line-to-ground voltages greater than 35kV (60kV phase to phase). This Standard describes mutual interference effects and specifies methods that will reduce these effects.

9. Survey of the Practice of Other Jurisdictions in North America

Numerous surveys and information collection was undertaken as part of the 2001 DMD Transmission Line Study. In the 2001 study, we determined that the only jurisdictions in Canada which regulate voltages of transmission lines in right-of-ways were Quebec and British Columbia. In the United States, each state has different policies regarding locating transmission lines in their right-of-ways. Most states review applications on an individual basis.

Based on a brief internet search and some basic research, listed below are some specific requirement from other jurisdictions:

Electric Field

- Several US states guidelines 10kV/m
- ESB (Ireland) Guidelines 5kV/m general public exposure
- BC Hydro Transmission Design Standards 5kV/m at edge of the rightof-way

Magnetic Fields

- Transmission Line Guideline (Florida) 150mG at edge of ROW
- Transmission Line Guideline (New York) 200mG at edge of ROW
- ESB (Ireland) Guidelines 1000mG general public exposure

Radio Interference

• CSA Maximum allowable RI (Fair Weather) - 50.0 dB

10. Impacts on Other Utilities & Crossings

Copper conductors for telephone, cable TV or other similar services would not be placed on the same poles or structures as the transmission conductors. Copper communication cables have serious restrictions when placed on or near transmission lines. Sufficient horizontal separation does allow installation on the same right of way. ADSS cables are the preferred communication cable for placement on transmission lines. All communications conductors in the same right-of-way as a transmission line should be ADSS (all dielectric) fibre cables.

Metallic pipelines should be adequately separated from the transmission line, preferably by locating the pipeline on the opposite side of the roadway. The recommendations of Standard CAN/CSA-22.3 No.6-M91 are that any pipeline be located a minimum of 10m from power line footings and other below-ground fault current discharge facilities.

Access roads to a highway will require a vertical clearance to a transmission line consistent with BC Hydro standards, WCB and CSA codes. This could limit locations of access roads to the highway if the transmission line is not designed



Effects of High Voltage Transmission Line In Proximity of Highways

BC Ministry of Transportation

	with adequate vertical clearance. It is important to note that transmission lines will have to be installed high enough to permit the installation of new access roads wherever they may be required or planned.
11. 500kV Transmission Lines	The electrical and magnetic fields associated with transmission lines increase with the operating voltage of the line. It is recommended that 500kV transmission lines be avoided in common right-of-ways with highways however if it can't be avoided they must be reviewed on a per project basis.
12. Highway 37 Corridor	As requested we have contacted the Stikine District regarding installing a transmission line on Highway 37. We have had some discussions with Fred Saychuck of the Stikine District Office. However, he advised that we should talk to Sheri Applegate as she has been the most involved with transmission lines. Fred did advise that the right-of-way on Highway 37 varies from as narrow as up to the edges of the road shoulder to as wide as 100m. Additional right-of way would therefore be required to construct a transmission adjacent to Highway 37. Sheri offered the following comments:
	 Consideration should be given to the impacts on the aesthetics of the highway corridor with the installation of a transmission line. Designated view points should be maintained.
	• Avalanche zones should be considered and may be an issue.
	 Archeological as well first nations concerns were issues with the construction of the 138kV Coast Mountain Transmission Line and should be investigated.
	• A full environmental impact study (EIS) should be undertaken prior to approving the transmission line adjacent to any highway.
	• Transmission lines may have impacts on roads used for aviation landing. Areas where aircraft are allowed to land on roads should be reviewed taking into account potential hazard to aircraft.
13. Conclusions	The use of 230kV or 287kV transmission lines would require greater vertical clearances specified in the standards than for lower voltages as noted in this study. Otherwise, there are no special requirements for 230kV or 287kV lines. Issues to be considered are:
	• Building transmission lines will ultimately open the door to development. However, the line itself will limit development adjacent to the highway. Provisions would have to be made to accommodate access and future access roads.
	 Advance planning should take into account other potential utilities which may be installed in the right-of-way.
	• Transmission line clearances should be increased for those lines that cross the highway at cross roads to accommodate signals and roadway lighting which has specific clearance requirements.



Effects of High Voltage Transmission Line In Proximity of Highways

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- Electric and magnetic fields at the edge of the traveled portion of the roadway, including pull-outs, shoulders and other areas likely to be used for parking of vehicles should not exceed the following at a height of one metre above finished grade:
 - 1. Electric Field Not to exceed 5kV rms/ meter
 - 2. Magnetic Field Not to exceed 200 milliGauss
- Radio interference at the edge of the traveled portion of the roadway, including pull-outs, shoulders and other areas likely to be used for parking of vehicles should not exceed CSA Maximum Allowable RI (fair weather) of 50dB.
- For Corona inception the maximum voltage gradients (kV/cm) for each conductor shall be below the corona inception gradient (kV/cm). This is to avoid radio interference.



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APPENDIX

Design Criteria BC Hydro Standards Utility Policies Survey Calculations Sketches 1A, 1B, 2A & 2B





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APPENDIX

Design Criteria



Design Criteria for 230kV and 287kV Transmission Lines Adjacent to Highways

- 1. Agency requesting transmission lines in MoT right-of-way shall obtain the appropriate permit from MoT prior to proceeding. As part of the approval process the agency requesting the transmission lines shall retain an APEGBC registered electrical engineer qualified in transmission line design to undertake calculations and verify that all of the pertinent criteria listed below have been addressed.
- 2. The transmission line design shall comply with the requirements of :
 - BC Hydro Transmission Engineering: Technical Procedures Vertical Clearances for Overhead Lines on BC Hydro Transmission Systems
 - CAN/CSA-C22.3 No. 3-98 Electrical Coordination
 - CAN/CSA-C22.3 No. 1-M87 Overhead Systems
 - Industrial Health and Safety Regulations, Workers Compensation Board (WCB)
 - CAN/CSA-C22.3 No. 5.1-93 Recommended Practices for Electrical Protection - Electric Contact Between Overhead Supply and Communication Lines
 - CAN/CSA-C22.3 No. 6-M91 Principles and Practices of Electrical Coordination Between Pipelines and Electric Supply Lines
- 3. Clearances shall meet BC Hydro required vertical clearances over the traveled portion of the roadway, including pull-outs, shoulders and other areas likely to be used for parking of vehicles. Vertical clearances should also be maintained where access roads enter the highway or where MoT envisions access roads could enter the highway in the future.
- 4. All poles, guys, anchors and other power line components should be installed beyond the MoT designated clear zone for the roadway in question.
- 5. In very heavy snow areas, snow removed from the road should not be piled directly under the line to a depth which would reduce clearances below code clearances for a person standing on the snow bank. Increase vertical clearance or move the line further out to compensate.
- 6. Electrical and magnetic fields at the edge of the traveled portion of the roadway, including pull-outs, shoulders, future access roads and other areas likely to be used for parking of vehicles should not exceed the following using a sensor height 1 metre above finished grade:

Electric Field	5kV rms per meter
Magnetic Field	200milliGauss

- 7. Radio interference at the edge of the traveled portion of the roadway, including pull-outs, shoulders and other areas likely to be used for parking of vehicles should not exceed CSA Maximum Allowable RI (fair weather) of 50dbu.
- 8. For Corona inception the maximum voltage gradients (kV/cm) for each conductor shall be below the corona inception gradient (kV/cm). This is to avoid radio interference.

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APPENDIX

BC Hydro Standards



1	B. C.	HYDRO	TRANS	SMISSION	ENGINEER	ING
NO. 41K	SECTION 3.3	PAGE 2	REVISION	DATE Oct. 88	REPLACES	DATE
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TABLE 1

The Electric Field Limits Imposed by the

5 mA Induced Current Rule

<u>Item</u>	Transport Truck	Farm Machinery	Farm Tractor	Pickup With <u>Camper</u>	Full Size Sedan	School Bus
Size(m)	20.0 x 2.4	7.6 x 2.4	3.7 x 1.5	6.4x2.3	5.3×2	10.7x2.4
Height(m)	4.15	4.15	2.1	2.9	1.4	2.7
Electric Field (kV/m)	6.2	11.4	38.5	15.6	45.5	12.8

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TABLE H

HIGHWAY CLEARANCES

(When no allowance is made for underbuilding of future powerlines)

Nominal Voltage	69 kV	<u>138 kV</u>	230 kV	<u>287 kV</u>	345 kV	500 kV
Basic Clearance (m)	9.0	9.0	9.0	9.0	9.0	
Electrical Clearance (m)	0.6	0.9	1.5	1.9	2.2	
Total (m)	9.6	9.9	10.5	10.9	11.2	14.2*1

*1 This clearance is due to induction from a tractor trailer assuming a 525 kV normal operating voltage and a 5 mA "let go" current.

(c) Other Crossings

For all other crossings, the MOC is considered sufficient for new construction.

5.1 - TABLE J

MINIMUM OPERATING CLEARANCES FOR UPRATING OF AC TRANSMISSION LINES (m)

		Nomina	1 Line to	Line Vol	tage	
Crossing Over*1 *10	<u>69 kV</u>	138 kV	<u>230 kV</u>	<u>287 kV</u>	<u>345 kV</u>	500 kV
GROUND*6 Accessible to:			(e.			
Vehicles & Equipment*11	5.2	5.5	6.1	6.5	6.8	9.6**
Pedestrians Only*2 *9	5.0	5.4	6.0	6.4	6.7	7.7
ROADS						
Minor Roads & Highways	6.9	7.3	7.9	8.3	9.4*8	14.2**
Logging & Mining Roads'	³ L+2.5 I	+2.9	L+3.5	L+3.9	L+4.2	L+5.2
RAILWAYS*7	8.4	8.7	9.3	9.7	10.0	11.0
	-					
PIPELINES	8.6	9.0	9.6	10.0	10.3	11.3
WIRES*4 (STRUCTURES)*5						
0 - 25 kV	1.4(1.4)	2.0(2.0)	2.6(2.6)	3.1(3.1)	3.5(3.5)	4.2(4.2)
69 kV	1.4(1.4)	2.0(2.0)	2.6(2.6)	3.1(3.1)	3.5(3.5)	4.2(4.2)
138 kV		1.5(2.3)	2.1(2.9)	2.7(3.4)	3.0(3.8)	4.2(4.5)
230 kV			2.4(2.8)	3.0(3.3)	3.4(3.7)	4.5(4.4)
287 kV				3.1(3.3)	3.6(3.7)	4.7(4.4)
345 kV					3.7(3.3)	4.9(4.0)
500 kV						5.4(3.7)

*1 The crossing conductors are considered to be in their maximum final sag position. Additional clearance must be provided for survey and construction tolerances.

*2 This is generally ground where the slope is greater than 30° to the horizontal.

TABLE J - (cont'd)

- *3 Some judgement must be exercised when determining the value of L (load height). The travelling load height must be obtained from the companies involved. If it is not possible to determine the height, use a value of 7.6 m for L. Regardless of the value used for L, the clearance over main haul roads cannot be less than the value required for minor roads crossed by lines of that voltage class.
- *4 Upper conductors at final sag shall be above the straight line between the support points of the lower wire. Where the sag of the lower wire exceeds 6 m, the clearance may be reduced by one half the difference between this sag and 6 m.
- *5 These clearances apply if the upper conductor in the swung position, as determined in Note 6, is within 3 m horizontally of a structure.
- *6 To determine clearances to sidehills, horizontal deviation shall be calculated using the non-sheltered span curve from Table 1 of CAN/CSA-C22.3 No. 1-M87 and applying the design clearance requirements for ground normally accessible to pedestrians only (Table 2).
- *7 These clearances also apply where the conductors are along roads or railway tracks, if the conductors in the swung position as calculated in Note 6 are closer than the horizontal distances shown below, to the vertical projection of edge of travelled way or closest rail. Reference CAN/CSA-C22.3 No. 1-M87 Clauses 4.4 (Table 6), 4.7.3.2 and 4.7.3.3 (Table 9).

Location	Voltage						
	69 kV	138 kV	230 kV	287 kV	345 kV	500 kV	
Roads	1.8	2.2	2.8	3.2	3.5	4.5*	
Main Rail	4.0	4.3	4.9	5.3	5.6	6.6	
Sidings	3.4	3.7	4.3	4.7	5.0	6.0	

Or 12 m from the rest position, whichever is the greater.

*8 Values apply only to the structure configurations shown in Fig.1.

*9 Where snow depths are known to be greater than 1 m, the clearance shall be increased accordingly.

- *10 For elevations over 1000 m, increase the electrical component of the clearances (see Table A) by 1 percent for each additional 100 m.
- *11 When it is determined that higher objects will be present, the clearances shall be increased by the amount that the object height exceeds 4.15 m. In the case of high pressure irrigation systems, the object height to be used is 6 m. For 345 kV and 500 kV, a study of electrostatic induction effects may be required.

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 \mathbf{a}

5.2 - TABLE K

MINIMUM CLEARANCES FOR NEW CONSTRUCTION ON AC TRANSMISSION LINES

(m)

		Nomi	nal Line	to Line V	oltage	
Crossing Over*1 *10	<u>69 kV</u>	<u>138 kV</u>	230 kV	<u>287 kV</u>	<u>345 kV</u>	<u>500 kV</u>
LAND*6 Accessible to:						
Vehicles & Equipment*	11 6.2	6.5	7.1	7.5	7.8	9.6*8
Pedestrians Only*2 *9	5.0	5.4	6.0	6.4	6.7	7.7
ROADS						
Where no provision is m for future powerlines a						
 Minor Roads 	6.9	7.3	7.9	8.3	9.4*8	14.2*8
 Highways 	9.5	9.9	10.5	10.9	11.2	14.2*8
Where provision is made future powerlines up to 25 kV along minor roads and highways:)	13.0	13.6	14.1	14.6	15.2
Logging & Mining Road	is*3 L+2.5	L+2.9	L+3.5	L+3.9	L+4.2	L+5.2
RAILWAYS*7	8.4	8.7	9.3	9.7	10.0	11.0
PIPELINES	8.6	9.0	9.6	10.0	10.3	11.3
WIRES*4 (STRUCTURES)*5						
0 - 25 kV	L.4(1.4)	2.0(2.0)	2.6(2.6)	3.1(3.1)	3.5(3.5)	4.2(4.2)
69 kV	1.4(1.4)	2.0(2.0)	2.6(2.6)	3.1(3.1)	3.5(3.5)	4.2(4.2)
138 kV		1.5(2.3)	2.1(2.9)	2.7(3.4)	3.0(3.8)	4.2(4.5)
230 kV			2.4(2.8)	3.0(3.3)	3.4(3.7)	4.5(4.4)
287 kV				3.1(3.3)	3.6(3.7)	4.7(4.4)
345 kV					3.7(3.3)	4.9(4.0)
500 kV						5.4(3.7)

Refer to Table J for notes.

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BC Ministry of Transportation

APPENDIX

Utility Policies Survey



UTILITY POLICIES FROM OTHER PROVINCES AND STATES

The survey of jurisdictions listed below was undertaken in 2001. From discussions with the Transportation Departments of other Provinces and review of available documents, it was determined that very little information was available and minimal guidance is given for the installation of power lines within highway right-of-ways. For example, in Alberta's Utility Guidance Manual it allows single poles to parallel the highway and to be located within the ROW. The Provinces of PEI and Newfoundland didn't even have a utility policy in place. Only Quebec mentioned that 50kV and above is considered a transmission and is therefore not allowed in the ROW. Many of the Provinces just deals with the installation of utility poles within the ROW on an individual and first come first served basis and are not concerned with voltage. A summary of these finding are detailed below.

Province	Voltage Limit	Location Within Right-Of-Way	Other Restrictions
Alberta	None	- Within 1m of edge of ROW	 Single wood poles Based on a first come first served basis Double pole transmission lines and tower mounted transmission lines paralleling highway should normally be positioned outside and beyond 30m of the ROW
Manitoba		- Within 0.6m of ROW	 No policy in place Generally only allow single pole lines
New Brunswick			 NB Power transmission lines not normally located on highway ROW Transmission lines defined as lines above 25kV phase to phase
Newfoundland			- No policy in place
Nova Scotia	None	 20m ROW: within 1.5m of boundary line with min. 4.5m from shoulder line 30m ROW: min. 4.5m from shoulder line, min. 12m from centre line preferred 	 Not allowed on controlled access highways Permit required for utility lines within 60m of boundary of controlled access highway Permit not normally approved for utility lines within 15m of outside limit of boundary of controlled access highway
PEI			- No policy in place
Quebec	50kV		- If above voltage limit not allowed in ROW
Saskatchewan	None		- If there is sufficient room within ROW

Yukon	- Policy does "not address transmission lines, which will be dealt with on an individual
	basis"

Summary of Utility Polices from Other Provinces as it Relates to Transmission Lines

The Federal Highway Administration (FHWA) has a document which deals with utility use of freeway right-of-ways. It stipulates that "each State must decide, as part of its utility accommodation plan, whether or not to allow longitudinal utility installation within the access control line of freeways and under what circumstances". This utility accommodation plan applies to Federal-aid projects, however each State Transportation Department found it difficult to adopt two policies, one for Federally funded highway projects and the other for State funded highway projects. As a result each State Transportation Department have generally adopted only one policy to cover all highway projects whether federally funded or State funded.

After reviewing many different State utility accommodation policies, the information from State to State varied. Some States do not allow longitudinal installation of utilities at all, some States only disallow longitudinal installation of utilities along interstates, freeways and expressways and some States had no restrictions. What was fairly consistent was that when longitudinal installations were allowed on highway right-of-ways they were limited to single pole construction and that they encouraged the joint use of poles. The only constant from policy to policy was there was no maximum voltage applied to power lines located within the highway right-of-way. A summary of these finding are detailed in Table 3.

State	Location Within Right-Of-Way	Restrictions
California (Caltrans)	 Generally located as close as possible to ROW line and outside slope limits or behind curbs Minimum desirable setback from clear zone is 6.09m Not closer than 0.45m behind a curb face or less than 0.60m from edge of a slope catch point or a driveway, or within a drainage ditch 	 Not permitted within access control line of any freeway or expressway Prohibit installation in scenic highway corridors

Kansas (KDOT)	 Locate on uniform alignment and preferably within 2.1m of ROW line Rural areas: outer limits of ROW, preferably within 0.6m or less of ROW line and as a minimum not closer than the clear zone Suburban areas with rural type highways and speeds 70km/h or lower: at least 4.5m from edge of travelled lane with preferred location near ROW line Curbed sections: at least 1.8m back of curb, 2.4m is desirable and near the ROW line preferred 	 Along interstates and fully controlled access highways only if determined that denial would result in severe hardship or is contrary to the public interest Use durable materials designed for long service life expectancy and relatively free from routine servicing and maintenance Location in scenic areas reviewed on an individual basis Locate to minimize need for later adjustment to accommodate future highway improvements, to permit servicing with minimal interference to highway traffic and without increasing the difficulty or cost to highway maintenance Only single pole type construction allowed with vertical configuration of conductors Joint use of poles encouraged
Montana (MDT)	 Rural areas: preferably along outer portion of ROW but in no case within the clear recovery area without prior approval Urban areas: outer edge or ROW, behind sidewalk, or a minimum of 0.61m behind face of curb Clear recovery area defined as min. of 12.8m from centreline on unpaved roads, and 9.2m from outer edge of outside-travelled lane on paved roads, or the clear zone, whichever is greater. 	- Not permitted on interstates - Not permitted in scenic areas, historic sites, public parks, archaeological sites, wet lands or any other environmentally sensitive area
Nebraska (NDOR)	 Rural areas: beyond the clear zone, if insufficient ROW use breakaway design or regrade the ROW Suburban areas with rural-type roadways and and speed limits of 72km/h and lower: at least 4.5m from edge of paved travel way with preferred location near ROW line Urban areas with curb sections: back of sidewalk or a minimum 1.8m back of curb 	 Joint use of poles encouraged Within Interstate or Freeway may be considered as a last resort Avoid scenic byways, scenic strips, overlooks, rest areas, recreation areas, wildlife and waterfowl refuges, public parks and historic sites

r		
Nevada (NDOT)	 Outside the clear recovery area and at or as near to the ROW as possible In areas with curbs, gutters and sidewalks, locate behind or at back edge of sidewalk if possible and not closer than 0.6m behind face of curb 	 Allow longitudinal encroachment only if utility provides service to the general public or a significant segment thereof Not permitted on controlled access freeways Only self-supporting armless, single- pole construction allowed with vertical configurations of conductors and cables Not within ROW adjacent to areas of scenic or natural beauty, including public parks and recreation lands, wildlife and waterfowl refuges, historic sites, scenic strips, overlooks, rest areas or landscaped areas
Oregon (ODOT)		- May impose joint use occupancy
Utah (UDOT)	 Locate on a uniform alignment within 0.9m to the ROW line and as a minimum outside the recovery and clear zone area If installed behind curb and gutter shall be minimum 0.46m behind front face of curb when no sidewalk exists or preferably 0.46m behind the sidewalk when both barrier curb and gutter and sidewalk exist when ROW is available 	 Locate to minimize need for later adjustment to accommodate future highway improvements Use durable materials designed for long service life expectancy and relatively free from routine servicing and maintenance Only single pole type construction allowed Joint use of poles encouraged Avoid scenic strips, overlooks, rest areas, recreation areas, public parks and historic sites
Washington (WSDOT)	- Outside control zone	 Reduce number of poles through joint use of poles and increasing span lengths Avoid placing poles on outside of horizontal curves Consider alternate pole designs to allow construction at/or close to ROW line
Wyoming (WYDOT)	 As close as possible to the highway ROW line Outside clear recovery area unless using an approved breakaway design 	 Only single pole type construction allowed Joint use of poles encouraged No poles located within inslopes or back slopes of 2:1 and steeper

Summary of Utility Accommodation Polices from Other States as it Relates to Transmission Lines

In general each State Transportation Department has variances to their guidelines because they recognize that conditions may arise which make it impractical, infeasible or unreasonably costly to comply with the guidelines. In these situations variances must be adequately supported and justified while also considering traffic safety. Examples of conditions that make it impractical to comply with utility offset guidelines include:

- Right-of-way that is not adequate to accommodate utilities outside of the clear zone. In these situations the safety of the motorist is provided by the breakaway design of the utility structure or the installation of guard rails or other protective devices or structures;
- Terrain or other features that do not warrant full compliance with clear zone, such as the top of cut slopes;
- In timbered areas, adherence to the principles of occupying the outer portion of the ROW or adherence to the clear recovery area distance may result in unwarranted cutting of trees along the highway or cutting of a new path along the ROW line.

Variances to the avoidance of scenic areas are considered only where:

- Other locations are unusually difficult and unreasonably costly, or more desirable from the standpoint of visual quality;
- Underground installation is not technically feasible or is unreasonably costly or is more detrimental to the scenic appearance of the area;
- The proposed installation can be made at a location and will employ suitable designs and materials, which give it adequate attention to the visual qualities of the area being traversed; and
- Utility installation is needed for highway purposes, such as for continuous highway lighting or to serve a weigh station, rest or recreational area.



BC Ministry of Transportation

APPENDIX

Calculations



_____ ELECTRICAL EFFECTS PROGRAM _____ Rogers Engineering Inc. (403) 282-4750 ------Input Data File Information _____ Date: 2005-07-12 Name: M2TH230.DAT Desc: MoTH Study - Bluebell - 230 (2) _____ Dist. from Height to Subcon Subcon Voltage Phase Tower C-LBdl Mid PtDiam.SpacingL-GCurrentAngle(metre)(metre)(cm.)(cm.)(kV)(Amps)(degrees) PHA-5.5014.152.971.00132.80665.0.00PHB.0014.152.971.00132.80665.0120.00PHC5.5014.152.971.00132.80665.0240.00 _____

CORONA INCEPTION CALCULATION

Altitude	:	500.0 (m)
Temperature	:	65.0 (deg C)
Relative air density (RAD)	:	.830
Conductor Surface Factor	:	.8
Radius of Conductor	:	1.485 (cm)

Conductor	Surface	e Gradient	for			
Positive (Corona I	inception		:	17.895	(kV/cm)

MAXIMUM VOLTAGE GRADIENTS (kV/cm)

PHA	14.4062
PHB	15.4354
PHC	14.4062

RADIO INTERFERENCE SPECIFICATIONS

	1.0 00.0 20.0	00 mmho/m
Values at Standard Distance (15 m) from	Oute	er Phase
Foul Weather Radio Interference (L50) Fair Weather Radio Interference (L50)		54.3 dbu 37.3 dbu
CSA Maximum Allowable RI (Fair Weather)	=	50.0 dbu

Maximum Radio Interference (dbu)

Lateral			
Dist.	Phase	Rain	Fair
(m)	THASE	L50	L50
()			
.0	PHB	64.4	47.4
2.0	PHB	64.2	47.2
4.0	PHB	63.6	46.6
6.0	PHB	62.8	45.8
8.0	PHB	61.7	44.7
10.0	PHB	60.6	43.6
12.0	PHB	59.3	42.3
14.0	PHB	58.1	41.1
16.0	PHB	56.9	39.9
18.0	PHB	55.7	38.7
20.0	PHB	54.6	37.6
22.0	PHB	53.6	36.6
24.0	PHB	52.5	35.5
26.0	PHB	51.6	34.6
28.0	PHB	50.7	33.7
30.0	PHB	49.9	32.9
32.0	PHB	49.1	32.1
34.0	PHB	48.3	31.3
36.0	PHB	47.6	30.6
38.0	PHB	47.0	30.0
40.0	PHB	46.3	29.3
42.0	PHB	45.7	28.7
44.0	PHB	45.2	28.2
46.0	PHB	44.6	27.6
48.0	PHB	44.1	27.1
50.0	PHB	43.6	26.6
52.0	PHB	43.2	26.2
54.0	PHB	42.7	25.7
56.0	PHB	42.3	25.3
58.0	PHB	41.9	24.9
60.0	PHB	41.5	24.5

AUDIBLE NOISE SPECIFICATIONS

Antenna Height = 1.524 m Altitude = 500.0 m Lateral Distance From Center of Tower = 30.5 m

Values at Standard Distance (30.5 m) from Centerline

= 40.4 DBA Audible Noise (Rain L50) Audible Noise (Fair Weather L50) = 15.4 DBA

Audible Noise (Rain L5) = 49.3 DBA Audible Noise (Fair Weather L5) = 24.3 DBA

AUDIBLE NOISE (Values DBA)

	L5	50	L5	
Lateral Dist. (m)	Rain	Fair	Rain	 Fair
.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	$\begin{array}{c}\\ 44.9\\ 44.8\\ 44.7\\ 44.5\\ 44.2\\ 43.9\\ 43.5\\ 43.2\\ 42.8\\ 42.4\\ 42.0\\ 41.7\\ 41.4\\ 42.0\\ 41.7\\ 41.4\\ 41.0\\ 40.7\\ 40.4\\ 40.2\\ 39.9\\ 39.6\\ 39.4\\ 39.2\\ 38.9\\ 38.7\\ 38.5\end{array}$	$\begin{array}{c}\\ 19.9\\ 19.8\\ 19.7\\ 19.5\\ 19.2\\ 18.9\\ 18.5\\ 18.2\\ 17.8\\ 17.4\\ 17.0\\ 16.7\\ 16.4\\ 17.0\\ 16.7\\ 16.4\\ 16.0\\ 15.7\\ 15.4\\ 15.2\\ 14.9\\ 14.6\\ 14.4\\ 14.2\\ 13.9\\ 13.7\\ 13.5\end{array}$	$\begin{array}{c}\\ 53.6\\ 53.4\\ 53.2\\ 53.0\\ 52.7\\ 52.3\\ 52.0\\ 51.6\\ 51.3\\ 50.9\\ 50.6\\ 50.3\\ 49.9\\ 49.6\\ 49.3\\ 49.1\\ 48.8\\ 48.5\\ 48.3\\ 48.5\\ 48.3\\ 48.0\\ 47.8\\ 47.6\\ 47.4\end{array}$	$\begin{array}{c}\\ 28.6\\ 28.4\\ 28.2\\ 28.0\\ 27.7\\ 27.3\\ 27.0\\ 26.6\\ 26.3\\ 25.9\\ 25.6\\ 25.3\\ 24.9\\ 24.6\\ 24.3\\ 24.1\\ 23.8\\ 23.5\\ 23.3\\ 23.0\\ 22.8\\ 22.6\\ 22.4\\ \end{array}$
48.0 50.0 52.0 54.0 56.0 58.0 60.0	38.3 38.1 37.9 37.8 37.6 37.4 37.3	13.3 13.1 12.9 12.8 12.6 12.4 12.3	47.1 46.9 46.7 46.5 46.4 46.2 46.0	22.1 21.9 21.7 21.5 21.4 21.2 21.0

=========[EEFFECTS (V2.2C) - Detmold Consulting] ===========

ELECTRIC FIELD (E-FIELD) CALCULATIONS

Sensor Height = 1 metre

	E-FIELD R	ESULTANTS	E-FIELD XY VECTOR COMPONENTS			
X (m)	E-FIELD (kV/m)	THETA	E-FIELD X (kV/m)	THETA X	E-FIELD Y (kV/m)	THETA Y
.0 2.0 4.0 6.0 8.0 10.0 12.0	.26 .49 .78 1.01 1.13 1.15 1.10 1.00 .88 .76 .65 .55	90.0 70.8 79.6 84.7 88.1 90.5 92.1 93.2 93.9 94.4 94.6 94.7 -85.3 -85.4 -85.5 -85.6 -85.8 -85.9 -85.9 -86.0 -86.2 -86.3 -86.4 -86.6 -86.7	.21 .20 .16 .11 .06	30.0 41.1 51.8 63.3 83.7 148.2 -160.5 -146.6 -141.2 -138.5 -137.0 -136.2 -135.7 -135.4 -135.2 -135.	(kV/m) .26 .46 .77 1.00 1.13 1.15 1.10 1.00 .88 .76 .65 .55 .47 .40 .34 .29 .25 .22 .19 .16 .14 .13 .11 .10	2.0 21.5 30.7 36.1 39.5 41.6 43.0
48.0 50.0 52.0 54.0 56.0 58.0 60.0	.09 .08 .07 .06 .06 .05 .05	-86.8 -86.9 -87.0 -87.1 -87.2 -87.3 -87.4	.00 .00 .00 .00 .00 .00	-135.2 -135.1 -135.1 -135.0 -135.0 -134.9 -134.8	.09 .08 .07 .06 .06 .05 .05	46.5 46.7 46.9 47.1 47.3 47.5 47.8

=========[EEFFECTS (V2.2C) - Detmold Consulting] ===========

MAGNETIC FIELD (B-FIELD) CALCULATIONS

Sensor Height = 1 metre

	B-FIELD	RESULTANTS	B-FIELD XY VECTOR COMPONENTS				
X (m)	B-FIELD (mGauss)	ТНЕТА	B-FIELD X (mGauss)	ТНЕТА Х	B-FIELD Y (mGauss)	THETA Y	
$\begin{array}{c} . 0 \\ 2 . 0 \\ 4 . 0 \\ 6 . 0 \\ 8 . 0 \\ 10 . 0 \\ 12 . 0 \\ 14 . 0 \\ 16 . 0 \\ 18 . 0 \\ 20 . 0 \\ 22 . 0 \\ 24 . 0 \\ 26 . 0 \\ 28 . 0 \\ 30 . 0 \\ 32 . 0 \\ 34 . 0 \\ 36 . 0 \end{array}$	62.36 61.55 59.15 55.35 50.52 45.16 39.75 34.66 30.09 26.10 22.70 19.81 17.37 15.31 13.57 12.08 10.82 9.73 8.79	118.4 132.3 145.4 157.5 168.5 178.1 -173.5 -166.2 -159.9 -154.5 -149.7 -145.6 -141.9 -138.7 -135.9 -133.3 -131.0	15.06 20.69 30.41 38.11 41.89 41.82 38.96 34.64 29.89 25.36 21.33 17.89 15.02 12.64 10.69 9.09 7.77 6.68 5.77	120.0 169.4 191.9 203.1 209.4 213.2 215.4 216.7 217.4 217.7 217.8 217.8 217.8 217.8 217.6 217.5 217.2 217.0 216.8 216.5 216.3	62.36 59.75 52.38 41.62 29.58 18.36 9.42 4.03 4.45 6.56 7.93 8.60 8.79 8.67 8.37 7.98 7.53 7.08 6.63	$\begin{array}{r} 40.8\\ 45.6\\ 50.5\\ 56.8\\ 69.4\\ 110.4\\ 176.7\\ 197.9\\ 205.2\\ 208.6\\ 210.4\\ 211.5\\ 212.1\\ 212.5\\ 212.8\\ 212.9\\ 213.0\\ \end{array}$	
38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0	7.97 7.26 6.64 6.09 5.61 5.18 4.80 4.45 4.14 3.87 3.61 3.39	-128.9 -127.1 -125.4 -123.8 -122.4 -121.0 -119.8 -118.7 -117.7 -116.7 -115.8 -114.9	5.02 4.38 3.85 3.39 3.01 2.67 2.39 2.14 1.93 1.74 1.57 1.43	216.1 215.8 215.6 215.5 215.3 215.1 214.9 214.8 214.6 214.5 214.4 214.2	5.06 4.74 4.44 4.16 3.90 3.67 3.45 3.25	213.1 213.0 213.0 213.0 212.9 212.9 212.9 212.8 212.7 212.7 212.6 212.6	

_____ ELECTRICAL EFFECTS PROGRAM -----Rogers Engineering Inc. (403) 282-4750 _____ Input Data File Information _____ Date: 2005-07-11 Name: MOTH230.DAT Desc: MoTH Study - Bluebell - 230 _____ Dist. from Height to Subcon Subcon Voltage Phase Tower C-LBdl Mid PtDiam.SpacingL-GCurrentAngle(metre)(metre)(cm.)(cm.)(kV)(Amps)(degrees) PHA-5.5011.252.971.00132.80665.0.00PHB.0011.252.971.00132.80665.0120.00PHC5.5011.252.971.00132.80665.0240.00 _____ _____

CORONA INCEPTION CALCULATION

:	500.0 (m)
:	65.0 (deg C)
:	.830
:	.8
:	1.485 (cm)
	:

Conductor Surface Gradient for Positive Corona Inception : 17.895 (kV/cm)

> MAXIMUM VOLTAGE GRADIENTS (kV/cm)

PHA	14.4668
PHB	15.4323
PHC	14.4668

RADIO INTERFERENCE SPECIFICATIONS

Antenna Height	=	1.000 m
RI Frequency	=	1.00 MHz
Altitude	=	500.0 m
Ground Conductivity	=	20.00 mmho/m
Lateral Dist From Outside Phase	=	15.0 m

Values at Standard Distance (15 m) from Outer Phase Foul Weather Radio Interference (L50) = 53.6 dbu

Fair Weather Radio Interference (L50) = 36.6 dbu

CSA Maximum Allowable RI (Fair Weather) = 50.0 dbu

Maximum Radio Interference (dbu)

Lateral Dist. (m)	Phase	Rain L50	Fair L50
.0	РНВ	66.6	49.6
2.0	РНВ	66.3	49.3
4.0	РНВ	65.4	48.4
6.0	РНС	64.1	47.1
8.0	РНС	62.7	45.7
10.0	РНС	61.7	44.7
12.0	РНС	60.3	43.3
14.0	РНС	58.8	41.8
16.0	РНС	57.2	40.2
18.0	РНС	55.6	38.6
20.0	РНС	54.0	37.0
22.0	РНС	52.6	35.6
24.0	РНС	51.3	34.3
26.0	PHB	50.2	33.2
28.0	PHB	49.3	32.3
30.0	PHB	48.3	31.3
32.0	PHB	47.5	30.5
34.0	PHB	46.7	29.7
36.0	PHB	45.9	28.9
38.0	PHB	45.2	28.2
40.0	PHB	44.6	27.6
42.0	PHB	44.0	27.0
44.0	PHB	43.4	26.4
46.0	PHB	42.8	25.8
48.0	PHB	42.3	25.3
50.0	PHB	41.8	24.8
52.0	PHB	41.3	24.3
54.0	PHB	40.9	23.9
56.0	PHB	40.4	23.4
58.0	PHB	40.0	23.0
60.0	PHB	39.6	22.6

AUDIBLE NOISE SPECIFICATIONS

Antenna Height = 1.524 m Altitude = 500.0 m Lateral Distance From Center of Tower = 30.5 m

Values at Standard Distance (30.5 m) from Centerline

Audible N Audible N		,	L50)	40.6 15.6	
Audible N Audible N		- 1	L5)	49.5 24.5	

AUDIBLE NOISE (Values DBA)

	L	50	L5		
Lateral					
Dist.	Rain	Fair	Rain	Fair	
(m)					
.0	46.1	21.1	54.8	29.8	
2.0	46.1	21.1	54.7	29.7	
4.0	45.9	20.9	54.5	29.5	
6.0	45.6	20.6	54.3	29.3	
8.0	45.2	20.2	53.9	28.9	
10.0	44.8	19.8	53.5	28.5	
12.0	44.3	19.3	53.1	28.1	
14.0	43.8	18.8	52.6	27.6	
16.0	43.3	18.3	52.2	27.2	
18.0	42.9	17.9	51.8	26.8	
20.0	42.5	17.5	51.4	26.4	
22.0	42.1	17.1	51.0	26.0	
24.0	41.7	16.7	50.6	25.6	
26.0	41.4	16.4	50.3	25.3	
28.0	41.0	16.0	49.9	24.9	
30.0	40.7	15.7	49.6	24.6	
32.0	40.4	15.4	49.3	24.3	
34.0	40.1	15.1	49.0	24.0	
36.0	39.9	14.9	48.8	23.8	
38.0	39.6	14.6	48.5	23.5	
40.0	39.4	14.4	48.2	23.2	
42.0	39.1	14.1	48.0	23.0	
44.0	38.9	13.9	47.8	22.8	
46.0	38.7	13.7	47.5	22.5	
48.0	38.5	13.5	47.3	22.3	
50.0	38.3	13.3	47.1	22.1	
52.0	38.1	13.1	46.9	21.9	
54.0	37.9	12.9	46.7	21.7	
56.0	37.7	12.7	46.5	21.5	
58.0	37.6	12.6	46.3	21.3	
60.0	37.4	12.4	46.1	21.1	

File: MOTH230.DAT

=========[EEFFECTS (V2.2C) - Detmold Consulting] ============

ELECTRIC FIELD (E-FIELD) CALCULATIONS

Sensor Height = 1 metre

	E-FIELD RESULTANTS		E-FIELD XY VECTOR COMPONENTS				
Х		THETA	E-FIELD X	THETA X	E-FIELD Y	THETA Y	
(m)	(kV/m)		(kV/m)		(kV/m)		
.0	.60	90.0	.36	30.0	.60	-60.0	
2.0	.89	75.0	.34	47.1	.86	-4.8	
4.0	1.32	80.8	.28	61.7	1.30	20.1	
6.0	1.64	85.9		78.1	1.63	32.2	
8.0	1.75	89.7	.07	121.5	1.75	38.6	
10.0	1.68	92.4	.08		1.68		
12.0		94.1	.11	-145.7	1.49	44.0	
14.0	1.26	95.1	.11	-139.2	1.26		
16.0		-84.4	.10	-136.4	1.04		
18.0	.85	-84.2	.09	-135.1	.85		
20.0	.70	-84.2	.07	-134.4	.69		
22.0	.57	-84.3	.06	-134.2	.57	45.7	
24.0	.47	-84.5	.05	-134.1	.46		
26.0	.39	-84.7	.04	-134.2	.38		
28.0	.32	-84.9	.03	-134.2	.32		
30.0	.27	-85.1	.02	-134.4	.27		
32.0	.23	-85.3	.02	-134.5	.23		
34.0	.20	-85.5	.02	-134.6	.19		
36.0	.17	-85.7	.01	-134.7	.17		
38.0	.14	-85.9	.01	10110	.14		
40.0	.13	-86.1	.01	-134.9	.13		
42.0	.11	-86.2	.01	-134.9	.11		
44.0	.10	-86.4	.01	-135.0	.10		
46.0	.09	-86.5	.01	-135.0	.09		
48.0	.08	-86.6	.00	-135.0	.08		
50.0	.07	-86.8	.00	-135.0	.07		
52.0	.06	-86.9	.00	-135.0	.06		
54.0	.05	-87.0	.00	-134.9	.05		
56.0	.05	-87.1		-134.9	.05		
58.0	.04	-87.2		-134.8	.04		
60.0	.04	-87.3	.00	-134.7	.04	47.8	

=========[EEFFECTS (V2.2C) - Detmold Consulting] ============

MAGNETIC FIELD (B-FIELD) CALCULATIONS

Sensor Height = 1 metre

B-FIELD RESULTANTS B-FIELD XY VECTOR COMPONENTS						
Х	B-FIELD	THETA	B-FIELD X	THETA X	B-FIELD Y	THETA Y
(m)	(mGauss)		(mGauss)		(mGauss)	
.0	93.63	90.0	29.01	120.0	93.63	30.0
2.0	92.27	106.2	36.89	168.1	88.92	38.6
4.0	88.03	122.8	51.56	194.0		46.2
6.0	80.91	139.2	62.44	207.0	54.62	52.8
8.0	71.67	154.8	65.11	213.8	32.85	
10.0	61.65	168.8	60.51	217.2	15.19	
12.0	52.08	-179.1	52.07	218.9	6.70	135.7
14.0	43.66	-168.9	42.87	219.7	9.51	190.0
16.0	36.61	-160.5	34.53	219.8	12.59	204.0
18.0	30.84	-153.5	27.62	219.7	13.92	209.1
20.0	26.17	-147.6	22.12	219.5	14.09	211.5
22.0	22.38	-142.6	17.81	219.1	13.61	212.7
24.0	19.30	-138.4	14.46	218.8	12.82	213.3
26.0	16.78	-134.8	11.84	218.4	11.91	213.7
28.0	14.70	-131.7	9.79	218.0	10.98	213.8
30.0	12.97	-129.0	8.17	217.7	10.08	213.9
32.0	11.52	-126.6	6.87	217.3	9.25	213.9
34.0	10.29	-124.4	5.82	217.0	8.49	213.9
36.0	9.24	-122.5	4.98	216.7	7.79	213.8
38.0	8.34	-120.8	4.28	216.4	7.16	213.7
40.0	7.57	-119.3	3.71	216.2	6.60	213.6
42.0	6.89	-117.9	3.23	215.9	6.09	213.5
44.0	6.31	-116.7	2.83	215.7	5.64	213.4
46.0	5.79	-115.5	2.49	215.5	5.22	213.3
48.0	5.33	-114.4	2.21	215.3	4.85	213.2
50.0	4.93	-113.5	1.96	215.1	4.52	213.2
52.0	4.56	-112.6	1.75	214.9	4.21	213.1
54.0	4.24	-111.7	1.57	214.8	3.94	213.0
56.0	3.95	-111.0	1.41	214.6	3.69	212.9
58.0	3.69	-110.2	1.28	214.5	3.46	212.8
60.0	3.45	-109.6	1.16	214.3	3.25	212.7

_____ ELECTRICAL EFFECTS PROGRAM Rogers Engineering Inc. (403) 282-4750 _____ Input Data File Information _____ Date: 2005-07-11 Name: MOTH287.DAT Desc: MoTH Study - Columbine - 287 _____ Dist. from Height to Subcon Subcon Voltage Phase Tower C-LBdl Mid PtDiam.SpacingL-GCurrentAngle(metre)(metre)(cm.)(cm.)(kV)(Amps)(degrees) PHA-6.7011.203.402.00165.70780.0.00PHB.0011.203.402.00165.70780.0120.00PHC6.7011.203.402.00165.70780.0240.00 _____ _____

CORONA INCEPTION CALCULATION

Altitude	:	500.0 (m)
Temperature	:	65.0 (deg C)
Relative air density (RAD)	:	.830
Conductor Surface Factor	:	.8
Radius of Conductor	:	1.701 (cm)

Conductor Surface Gradient for Positive Corona Inception : 17.645 (kV/cm)

MAXIMUM VOLTAGE GRADIENTS (kV/cm)

PHA	15.6849
PHB	16.6429
PHC	15.6849

RADIO INTERFERENCE SPECIFICATIONS

Antenna Height	=	1.000 m
RI Frequency	=	1.00 MHz
Altitude	=	500.0 m
Ground Conductivity	=	20.00 mmho/m
Lateral Dist From Outside Phase	=	15.0 m

Values at Standard Distance (15 m) from Outer Phase

Foul Weather Radio Interference (L50) = 60.2 dbu Fair Weather Radio Interference (L50) = 43.2 dbu

CSA Maximum Allowable RI (Fair Weather) = 50.0 dbu

Maximum Radio Interference (dbu)

Lateral			
Dist.	Phase	Rain	Fair
(m)		L50	L50
.0	PHB	72.9	55.9
2.0	PHB	72.6	55.6
4.0	PHB	71.7	54.7
6.0	PHB	70.4	53.4
8.0	PHC	69.7	52.7
10.0	PHC	69.0	52.0
12.0	PHC	67.8	50.8
14.0	PHC	66.3	49.3
16.0	PHC	64.7	47.7
18.0	PHC	63.1	46.1
20.0	PHC	61.5	44.5
22.0	PHC	60.0	43.0
24.0	PHC	58.6	41.6
26.0	PHC	57.2	40.2
28.0	PHC	56.0	39.0
30.0	PHC	54.8	37.8
32.0	PHC	53.8	36.8
34.0	PHB	53.0	36.0
36.0	PHB	52.2	35.2
38.0	PHB	51.5	34.5
40.0	PHB	50.8	33.8
42.0	PHB	50.2	33.2
44.0	PHB	49.6	32.6
46.0	PHB	49.1	32.1
48.0	PHB	48.5	31.5
50.0	PHB	48.0	31.0
52.0	PHB	47.6	30.6
54.0	PHB	47.1	30.1
56.0	PHB	46.7	29.7
58.0	PHB	46.3	29.3

File: MOTH287.DAT				2005-07-11
================[EEFFECTS	(V2.2C)	- Detmold	Consulting]	

60.0 PHB 45.9 28.9

AUDIBLE NOISE SPECIFICATIONS

Antenna Height = 1.524 m Altitude = 500.0 m Lateral Distance From Center of Tower = 30.5 m

Values at Standard Distance (30.5 m) from Centerline

Audible Noise (Rain L50)=48.0 DBAAudible Noise (Fair Weather L50)=23.0 DBAAudible Noise (Rain L5)=55.5 DBAAudible Noise (Fair Weather L5)=30.5 DBA

AUDIBLE NOISE (Values DBA)

		L50		L5
Lateral Dist. (m)	 Rain			
.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	53.3 53.3 53.1 52.9 52.5 52.1 51.7 51.2 50.7 50.3 49.9 49.4 49.1 48.7 48.4 48.1 47.7 47.5 47.2 46.9 46.7 46.5 46.2 46.0 45.8	28.3 28.1 27.9 27.5 27.1 26.7 26.2 25.7 25.3 24.9 24.4 24.1 23.7 23.4 23.1 22.7 22.5 22.2 21.9 21.7 21.5 21.2 21.0 20.8	60.6 60.2 59.9 59.5 59.1 58.6 58.2 57.8 57.4 57.0 56.6 56.3 55.9 55.6 55.3 55.0 54.2 54.2 54.2 54.2 54.2 54.2 53.3	35.6 35.4 35.2 34.9 34.5 34.1 33.6 32.8 32.4 32.0 31.6 31.3 30.9 30.6 30.3 30.0 29.7 29.5 29.2 29.0 28.7 28.5 28.3
50.0 52.0 54.0 56.0 58.0 60.0	45.4 45.2 45.1 44.9	20.6 20.4 20.2 20.1 19.9 19.7	52.7 52.5	27.7 27.5

ELECTRIC FIELD (E-FIELD) CALCULATIONS

	E-FIELD R	ESULTANTS	E-FI	ELD XY VEC	TOR COMPONEN	TS
X (m)	E-FIELD (kV/m)	THETA	E-FIELD X (kV/m)	THETA X	E-FIELD Y (kV/m)	THETA Y
.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0	1.14 1.34 1.79 2.24 2.49 2.48 2.26 1.95 1.63 1.33 1.09 .89 .73 .60 .50 .42 .35 .30 .26 .22 .19 .17 .15 .13	90.0 81.5 81.8 85.1 88.6 91.5 93.5 -85.2 -84.2 -84.2 -84.2 -84.2 -84.2 -84.4 -84.6 -84.8 -85.0 -85.3 -85.5 -85.7 -85.8 -86.0 -86.2 -86.5 -86.5 -86.6	.46 .46 .41 .30 .15	103.1 172.1 -150.3 -139.8 -135.8 -134.0 -133.2 -132.9 -132.8	1.14 1.32 1.78 2.24 2.49 2.48 2.26 1.94 1.62 1.33 1.08	$\begin{array}{c} -16.8\\ 12.2\\ 28.5\\ 37.3\\ 42.0\\ 44.5\\ 45.8\\ 46.4\\ 46.6\\ 46.6\\ 46.6\\ 46.6\\ 46.4\\ 46.3\\ 46.1\\ 46.3\\ 46.1\\ 46.0\\ 45.9\end{array}$
50.0 52.0 54.0 56.0 58.0 60.0	.10 .09 .08 .07 .07	-86.7 -86.8 -87.0 -87.1 -87.2 -87.2	.01 .01 .00 .00 .00 .00	-134.9 -134.9 -135.0 -135.0 -135.1 -135.1	.10 .09 .08 .07 .07	45.9 46.0 46.1 46.2 46.3 46.5

MAGNETIC FIELD (B-FIELD) CALCULATIONS

	B-FIELD	RESULTANTS	B-FI	ELD XY VEC	TOR COMPONEN	TS
X (m)	B-FIELD (mGauss)	THETA	B-FIELD X (mGauss)	ΤΗΕΤΑ Χ	B-FIELD Y (mGauss)	THETA Y
(m) .0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	(mGauss) 121.56 120.59 117.14 100.15 87.89 75.25 63.57 53.48 45.09 38.23 32.66 28.12 24.41 21.35 18.81 16.68 14.89 13.36 12.05	118.9 134.5 150.0 164.4 177.1	46.10 51.54 65.55 80.25 87.46 84.77 75.16	120.0 159.2 187.9 204.6 213.5 218.1 220.4 221.4 221.7 221.6 221.4 221.0 220.6 220.1 219.7 219.3 218.9 218.5 218.1 217.8	121.56 117.49 104.18 81.48 53.82 28.40 12.13 11.95 16.64 19.16 19.81 19.37 18.36 17.12 15.81 14.54 13.34 12.23 11.23	48.3 55.2 62.4 74.9 112.9 178.3 200.8 208.2 211.5
40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0	12.03 10.92 9.94 9.08 8.33 7.67 7.08 6.56 6.09 5.67 5.30 4.95	-119.5 -118.0 -116.7 -115.6 -114.5 -113.5 -112.6 -111.7 -111.0	5.38 4.68 4.09 3.60 3.18 2.83 2.52 2.26 2.03 1.83	217.8 217.5 217.2 216.9 216.7 216.4 216.2 216.0 215.8 215.6 215.4 215.3	9.51 8.77 8.11 7.52 6.98 6.50 6.06 5.66 5.30 4.97	214.5 214.4 214.3 214.2 214.1 214.0 213.8 213.7 213.6 213.5 213.4 213.3

ELECTRICAL EFFECTS PROGRAM -----Rogers Engineering Inc. (403) 282-4750 _____ Input Data File Information _____ Date: 2005-07-12 Name: M2TH287.DAT Desc: MoTH Study - Columbine - 287 (2) _____ Dist. from Height to Subcon Subcon Voltage Phase Tower C-LBdl Mid PtDiam.SpacingL-GCurrentAngle(metre)(metre)(cm.)(cm.)(kV)(Amps)(degrees) PHA-6.7014.103.402.00165.70780.0.00PHB.0014.103.402.00165.70780.0120.00PHC6.7014.103.402.00165.70780.0240.00 _____ _____ _____

CORONA INCEPTION CALCULATION

Altitude	:	500.0 (m)
Temperature	:	65.0 (deg C)
Relative air density (RAD)	:	.830
Conductor Surface Factor	:	. 8
Radius of Conductor	:	1.701 (cm)
Conductor Surface Gradient for		
Positive Corona Inception	:	17.645 (kV/cm)

MAXIMUM VOLTAGE GRADIENTS (kV/cm)

PHA	15.5977
PHB	16.6365
PHC	15.5977

RADIO INTERFERENCE SPECIFICATIONS

	y uctivity t From C	outside Phase	e = 15.	00 MHz 0 m 00 mmho/m 0 m
Values at Stand		ance (15 m)		
Foul Weather R Fair Weather R				
CSA Maximum Al	lowable	RI (Fair Wea	ather) =	50.0 dbu
		-		
		Interference		
Lateral				
	Phase	Rain	Fair	
(m)		L50		
.0	PHB	70.7	53.7	
2.0	PHB	70.5	53.5	
4.0	PHB	69.9	52.9	
6.0	PHB	69.1	52.1	
8.0	PHB	68.0	51.0	
			49.8	
		66.0		
		65.0		
		63.9		
18.0	PHC		45.7	
20.0	PHC	61.4	44.4	
22.0	PHC	60.2	43.2	
24.0 26.0	PHC PHC	59.0	42.0 40.9	
20.0	PHC	57.9	40.9	
28.0	סעם	56.9	39.9	
	PHB	56.1	39.1	
32.0	PHB	55.3	38.3	
34.0	PHB	54.6	37.6	
36.0	PHB	53.9	36.9	
38.0	PHB	53.2	36.2	
40.0	PHB	52.6	35.6	
42.0	PHB	52.0	35.0	
44.0	PHB	51.4	34.4	
46.0	PHB	50.9	33.9	
48.0	PHB	50.3	33.3	
50.0	PHB	49.9	32.9	
52.0	PHB	49.4	32.4	
54.0	PHB	48.9	31.9	
56.0	PHB	48.5	31.5	
58.0	PHB	48.1	31.1	
60.0	PHB	47.7	30.7	

AUDIBLE NOISE SPECIFICATIONS

Antenna Height = 1.524 m Altitude = 500.0 m Lateral Distance From Center of Tower = 30.5 m

Values at Standard Distance (30.5 m) from Centerline

Audible Noise (Rain L50)=47.7 DBAAudible Noise (Fair Weather L50)=22.7 DBA

Audible Noise (Rain L5)=55.2 DBAAudible Noise (Fair Weather L5)=30.2 DBA

AUDIBLE NOISE (Values DBA)

TEO

- F

	L	50	L	5
Lateral	Dein	To i to	Dein	Dein
Dist. (m)	Rain	Fair	Rain	Fair
()				
.0	52.1	27.1	59.4	34.4
2.0	52.0	27.1	59.4	34.4
4.0	51.9	26.9	59.3	34.3
6.0	51.7	26.7	59.1	34.1
8.0	51.4	26.4	58.9	33.9
10.0	51.1	26.1	58.6	33.6
12.0	50.8	25.8	58.3	33.3
14.0	50.4	25.4	57.9	32.9
16.0	50.1	25.1	57.6	32.6
18.0	49.7	24.7	57.2	32.2
20.0	49.3	24.3	56.9	31.9
22.0	49.0	24.0	56.5	31.5
24.0	48.6	23.6	56.2	31.2
26.0	48.3	23.3	55.9	30.9
28.0	48.0	23.0	55.6	30.6
30.0	47.7	22.7	55.3	30.3
32.0	47.4	22.4	55.0	30.0
34.0	47.2	22.2	54.7	29.7
36.0	46.9	21.9	54.5	29.5
38.0	46.7	21.7	54.2	29.2
40.0	46.4	21.4	54.0	29.0
42.0	46.2	21.2	53.7	28.7
44.0	46.0	21.0	53.5	28.5
46.0	45.8	20.8	53.3	28.3
48.0	45.6	20.6	53.1	28.1
50.0	45.4	20.4	52.9	27.9
52.0	45.2	20.2	52.7	27.7
54.0	45.0	20.0	52.5	27.5
56.0	44.9	19.9	52.3	27.3
58.0	44.7	19.7	52.1	27.1
60.0	44.5	19.5	51.9	26.9

ELECTRIC FIELD (E-FIELD) CALCULATIONS

	E-FIELD R	ESULTANTS	E-FIELD XY VECTOR COMPONENTS				
X (m)	E-FIELD (kV/m)	THETA	E-FIELD X (kV/m)	THETA X	E-FIELD Y (kV/m)	THETA Y	
.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 24.0 26.0 30.0 32.0 34.0 36.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 46.0 50.0	.55 .75 1.10 1.41 1.61 1.68 1.63 1.51 1.34 1.17 1.00 .85 .72 .62 .52 .45 .39 .33 .29 .25 .22 .19 .17 .15 .14 .12	90.0 76.8 80.6 84.4 87.5 89.8 91.6 92.9 93.7 94.2 -85.5 -85.4 -85.4 -85.3 -85.4 -85.5 -85.6 -85.7 -85.9 -86.0 -86.1 -86.3 -86.5 -86.8 -86.8 -86.9	.28 .27 .24 .18 .11 .05 .06 .08 .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	43.4 55.4 66.8 82.7 123.4 -173.7 -150.6 -142.4 -138.5 -136.6 -135.5 -134.8 -134.5 -134.4 -134.3 -134.3 -134.4 -134.5 -134.7 -134.7 -134.8 -134.9 -135.0	.55 .73 1.08 1.40 1.61 1.68 1.63 1.51 1.34 1.16 1.00 .85 .72 .61 .52 .45 .38 .33 .29 .25 .22 .19 .17 .15 .14 .12	-11.0 13.5 26.4 33.9 38.5 41.4 43.2 44.2 44.2 44.2 44.2 45.3 45.6 45.8 45.8 45.9	
52.0 54.0 56.0 58.0 60.0	.10 .09 .08	-87.0 -87.1 -87.2 -87.2 -87.3	.01 .01 .00 .00 .00	-135.0 -135.0 -135.1 -135.1 -135.1	.11 .10 .09 .08 .07	46.0 46.2 46.3 46.4 46.6	

MAGNETIC FIELD (B-FIELD) CALCULATIONS

	B-FIELD	RESULTANTS	B-FI	ELD XY VEC	TOR COMPONEN	TS
X (m)	B-FIELD (mGauss)	THETA	B-FIELD X (mGauss)	THETA X	B-FIELD Y (mGauss)	THETA Y
.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	83.62 82.80 80.31 76.13 70.47 63.80 56.73 49.82 43.45 37.80 32.91 28.73 25.19 22.19 19.64 17.48 15.64 14.05	116.2 129.4 142.3 154.5 165.6 175.6 -175.6 -168.0 -161.4 -155.7	24.69 29.83 40.41 50.37 56.49 57.79 55.00 49.68 43.32 36.98 31.20 26.19 21.98 18.49 15.62 13.26 11.32 9.71	120.0 161.6 186.5 200.4 208.5 213.4 216.3 217.9 218.8 219.3 219.4 219.4 219.4 219.2 219.0 218.7 218.5 218.2 217.9	83.62 80.84 72.67 59.96 44.68 29.43 16.49 7.70 6.03 8.70 10.85 12.00 12.41 12.33 11.95 11.42 10.81	
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0	$12.69 \\ 11.50 \\ 10.47 \\ 9.57 \\ 8.77 \\ 8.07 \\ 7.45 \\ 6.89 \\ 6.40 \\ 5.95 \\ 5.55 \\ 5.19 \\ 4.86 $	-131.3 -129.2 -127.3 -125.5 -123.9 -122.5 -121.1 -119.9 -118.8 -117.7 -116.7 -115.8 -115.0	8.38 7.28 6.35 5.57 4.90 4.34 3.86 3.44 3.08 2.77 2.50 2.26	217.6 217.4 217.1 216.9 216.6 216.4 216.2 216.0 215.8 215.6 215.5 215.3 215.1	9.53 8.92 8.33 7.79 7.28 6.81 6.38 5.98 5.61	213.7 213.7 213.7 213.7 213.6 213.6 213.6 213.5 213.4 213.4 213.3 213.2

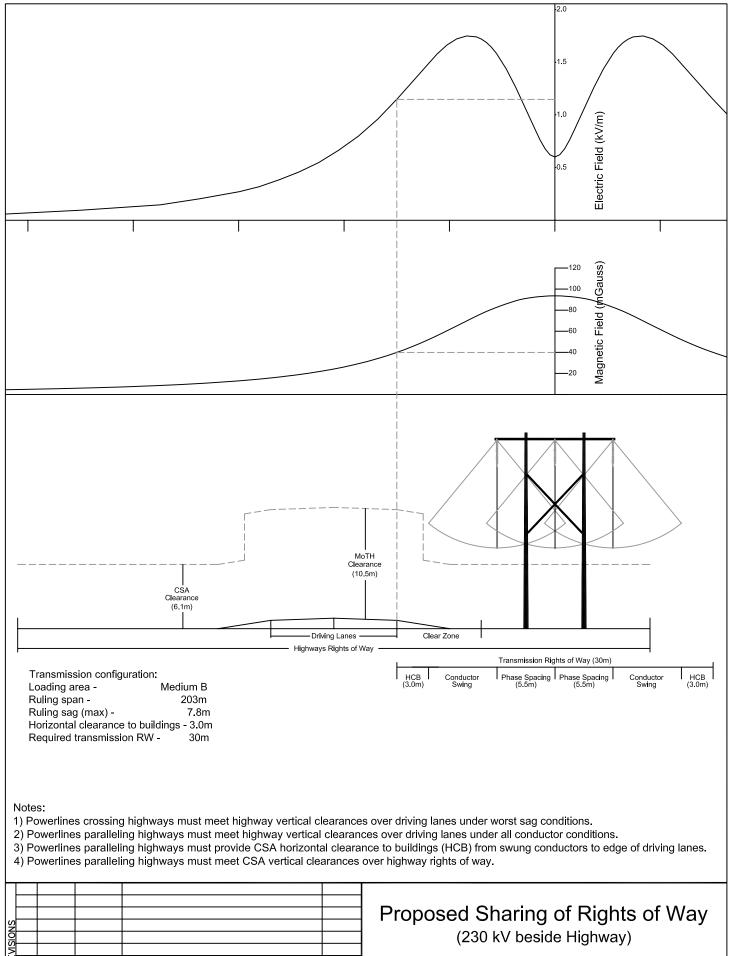
Effects of High Voltage Transmission Line In Proximity of Highways

BC Ministry of Transportation

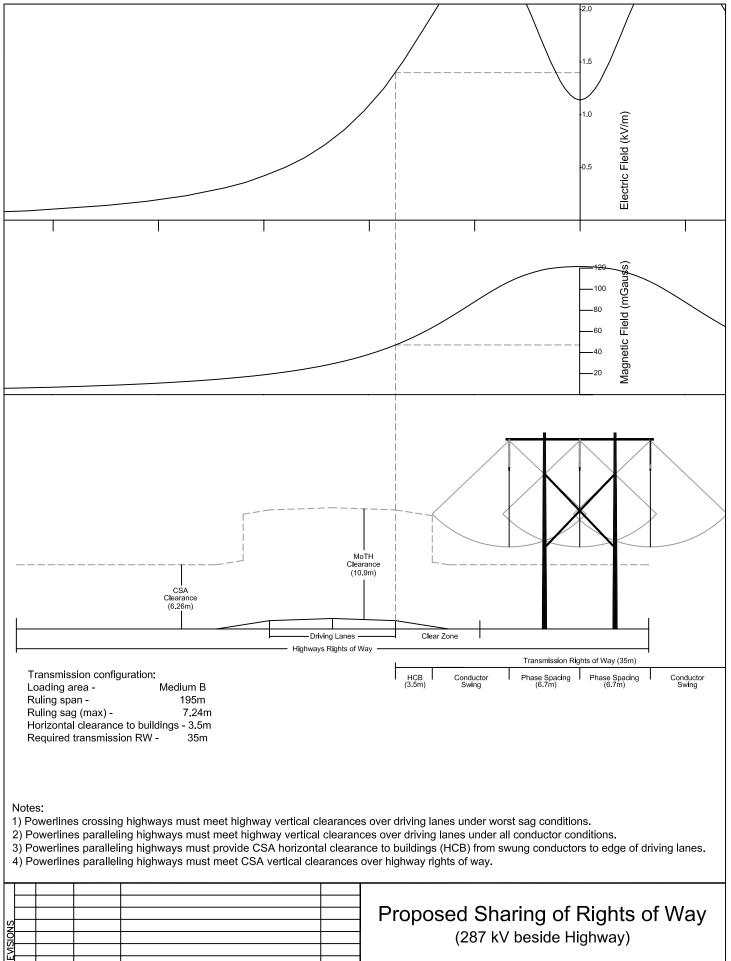
APPENDIX

Sketches 1A, 1B, 2A & 2B





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1	JMD	05/08/11	ADDED CLEARANCE DIMENSIONS			DRAWING No.	REV.
-	JMD	, ,	NEW DRAWING		Detmold Consulting Ltd.	Skatab 1A	4
No	BY	DATE	DESRIPTION	APP.		Sketch 1A	



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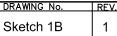
 JMD
 05/07/15
 NEW
 DRAWING
 Detmold
 Consulting
 Ltd.

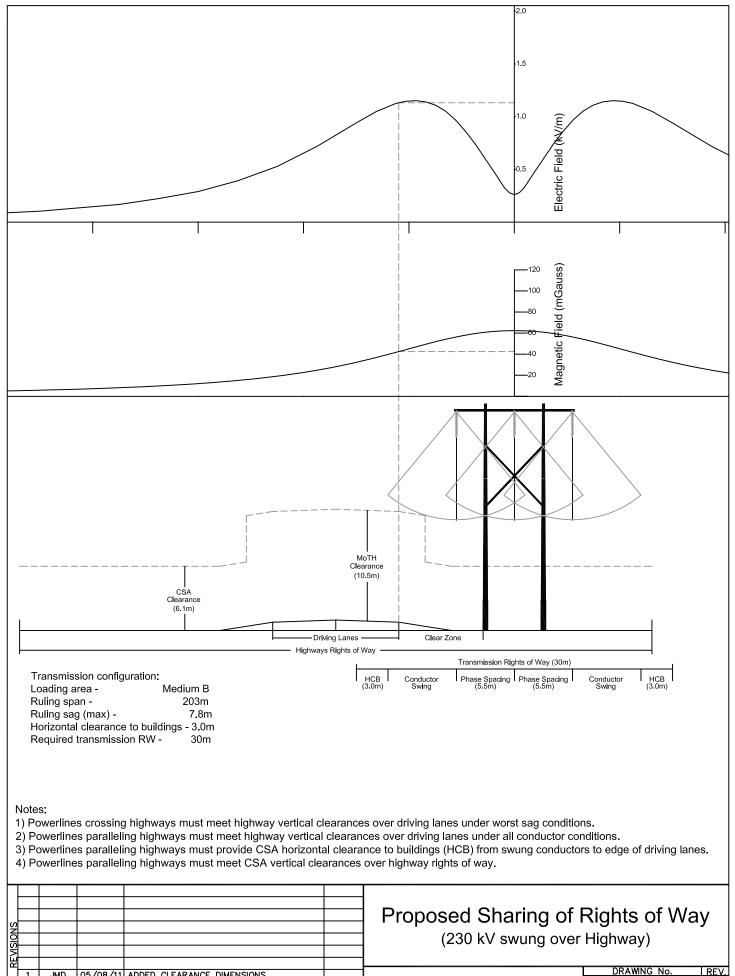
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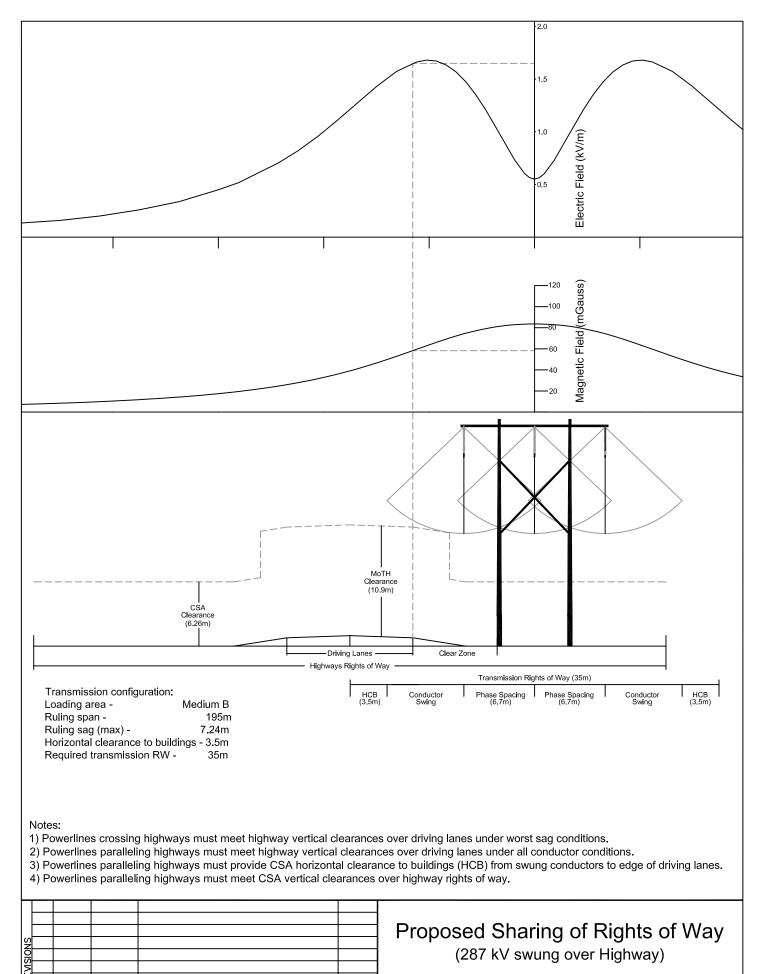
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JMD	05/08/11	ADDED CLEARANCE DIMENSIONS			DRAWING No.
JMD	05/07/15	NEW DRAWING		Detmold Consulting Ltd.	Sketch 2A
BY	DATE	DESRIPTION	APP.	_	

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_	1	JMD	05/08/11	ADDED CLEARANCE DIMENSIONS			DRAWING No. REV
ŀ	<u>.</u>		, ,	NEW DRAWING		Detmold Consulting Ltd	
						Detinoia consulting hta	· Sketch 2B 1
	No.	BY	DATE	DESRIPTION	APP.		