

Appendix F

Correspondence with the Public

From: Male, Sean
Sent: Monday, May 14, 2012 11:08 AM
To: 'Adrian & Margaret Struyk'
Cc: 'Tom Hockin'; 334844; 'Carol-Ann Fletcher'
Subject: FW: northland power solar project
Attachments: SVTestProcedureforElectrical_Contractors.pdf

Hi Mr. and Mrs. Struyk,

Thank you again for your e-mail regarding the Empire Solar Project.

With respect to your concerns around stray voltage, I have consulted with both Hydro One and our internal electrical engineers and there are no known expectations for increases in stray voltage as a result of installation of solar projects. Hydro One has not seen any instances of stray voltage from solar projects installed to date.

However, Northland will agree to cover the expenses of baseline stray voltage testing should you desire. In our discussions with Hydro One, they indicated that standard practice is for the landowner to retain an electrician to conduct preliminary testing, and then if a problem is detected, Hydro One would complete additional testing and reimburse the cost of the electrician. Northland is proposing at this time that you go ahead and retain an electrician of your choosing, and then Northland will cover the electrician's costs to perform the baseline test. If possible, we would request that you provide the cost estimate for approval prior to completing the work. I have attached the Hydro One requirements for completing the baseline test. More information is also available at <http://www.hydroone.com/MyBusiness/MyFarm/Pages/StrayVoltage.aspx>.

Please do not hesitate to contact me if you would like to discuss this further.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Adrian & Margaret Struyk [<mailto:amstruyk@puc.net>]
Sent: Monday, March 19, 2012 1:04 PM
To: Male, Sean
Subject: northland power solar project

Hi Sean

We are writing you with concerns about the Empire Solar project in Cochrane Ontario . We own a dairy farm next door to the proposed site. It has been brought to our attention that there is an increase in stray voltage associated with these sites. As stray voltage is very detrimental to the health of the animals, we are asking if Northland Power would do testing prior to installation. With the testing we would have a baseline for future reference. Could you get back to us on this matter? Thank you Adrian & Margaret Struyk (705-272-5672)

From: Male, Sean
Sent: Friday, August 24, 2012 7:39 AM
To: catm@ntl.sympatico.ca
Cc: Rob Miller; 334844
Subject: RE: 115 KV TRANSMISSION LINE inquiry from Cathy Shier
Attachments: Abitibi, Empire and Martin's Meadows Solar Projects March 10, 2011.pdf

Hi Cathy,

Attached is the list of First Nation contacts as provided to us by the Ministry of the Environment.

You will note that this does not mention the Long Lake Solar Project. A separate list was provided for that Project, however all of the communities identified on that list were also captured on the list for the Projects in Glackmeyer.

With respect to the MNR, the other contact would be Jennifer Telford

Jennifer Telford
District Planner

Ministry of Natural Resources, Cochrane District
Phone (705) 272-7130
Fax (705)272-7183
jennifer.telford@ontario.ca

Jennifer was the lead contact for the Natural Heritage Assessment process for the Projects.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Rob Miller [<mailto:Rob.Miller@Northlandpower.ca>]
Sent: Wednesday, August 22, 2012 6:21 PM
To: catm@ntl.sympatico.ca
Cc: Male, Sean
Subject: RE: 115 KV TRANSMISSION LINE inquiry from Cathy Shier

Hello Cathy,

It was a pleasure meeting you last night at the PIC's.

Sean and I will endeavor to answer your questions as soon as possible.

Please find attached some of the requested contacts that I have on file. I will have to get you Hydro One, IESO, and OPA contacts information. Sean can provide First Nation contact information.

<p>Boucher, Marc (MNR-Cochra... Ministry Of Natural Resources A/Lands & Waters Technical Specialist (... (705) 272-7196 Work marc.boucher@ontario.ca</p>	<p>Cameron, Amy (MNR) Southern Region Renewable Energy O... Ministry of Natural Resources (705) 875-7481 Mobile Amy.Cameron@ontario.ca</p>
<p>Doris Dumais MOE Director EAAB doris.dumais@ontario.ca</p>	<p>Vic Schroter (ENE) (416) 314-8573 Work Vic.Schroter@ontario.ca 2 St. Clair Avenue West, Floor 12A Toronto ON M4V, 1L5</p>
<p>Andrew Hinshelwood MTCS Archaeology Review Officer (807) 475-1632 Work andrew.hinshelwood@Ontario.ca 435 S. James St., Suite 334 Thunder Bay, ON, P7E 6S7</p>	

I have provided the list of Northland's projects and web sites. I wanted to point out that the web sites for Empire, Martin's Meadows, and Abitibi all have the archaeology assessment for the proposed transmission line route. I have attached page 60, which shows where the archaeology assessment was done along the shore of the lake.

Martins Meadows	http://www.northlandpower.ca/martinsmeadows
Abitibi	http://www.northlandpower.ca/abitibi
Empire	http://www.northlandpower.ca/empire
Long Lake	http://www.northlandpower.ca/longlake

As discussed at the PIC's, Northland's intention is to have the proposed transmission line well off and south of the shore of Deception Lake, over 100 metres off of the shore. I hiked there this morning with Mr. Luc Mayer, from Lot#8. We will provide you with the detailed topographical survey information and more engineering design information when it is available.

The agency (MNR and MTCS) Letters of Confirmation (LoC's) are contained in the appendices of the Executive Summaries. For Empire, Abitibi, and Martin's Meadows these are appendices Q and P respectively. For the Long Lake Project the LoC's are in appendices Q and P.

Regards,

Rob.

Rob Miller, M.Sc., P.Eng. | Manager, Solar Development
Northland Power Inc.
30 St. Clair Avenue West, 12th Floor, Toronto, ON M4V 3A1



From: Cathy Shier [<mailto:catm@ntl.sympatico.ca>]

Sent: Wednesday, August 22, 2012 5:34 PM

To: Rob Miller

Subject: 115 KV TRANSMISSION LINE

As per our conversation yesterday at the public meeting, I am requesting contact information for the following (in association with the proposed 115 KV Transmission Line running along concession 8 & 9 Clute Township). Please provide asap.

MNR
OPA
IESO
MOE
HYDRO ONE
MINISTRY OF TOURISM, CULTURE & SPORT
FIRST NATION

Thank-you
Cathy Shier
Cottage owner at Lower Deception Lake

**Hunta Area Landowners Association,
Tom Bailor, President,
R.R. 4,
Hunta ON P0L 1P0**

September 10, 2012

Sean Male,
REA Coordinator, Environmental Assessment and Management,
Hatch Ltd.,
4342 Queen Street, Suite 500,
Niagara Falls, ON
L2E 7J7

Dear Mr. Male,

Please find enclosed a copy of a letter addressed to Mr. Rob Miller, Manager of Solar Development at Northland Power, Inc. The Hunta Area Landowners Association protests Northland's proposal to develop three solar energy farms near Cochrane, and a 20 km transmission line from these farms to the Hunta substation.

We hope that you will gain an understanding of our objections from this letter, and that you will help us to advocate for changes to this very flawed plan. Please feel free to contact me if you have any questions or comments.

Yours truly,



Tom Bailor, President

705-272-3460

717-964-2195

**Hunta Area Landowners Association,
Tom Bailor, President,
R.R. 4,
Hunta ON P0L 1P0**

Rob Miller, M.Sc., P.Eng.,
Manager, Solar Development,
Northland Power Inc.,
30 St. Clair Avenue West, 12th Floor,
Toronto ON
M4V 3A1

Dear Mr. Miller,

This letter is to advise you of the following concerns on behalf of the land owners and concerned citizens of Clute Township and Lower Deception Lake who attended a meeting at the Hunta Mennonite Church on August 21, 2012. Subsequent to this meeting, the Hunta Area Landowners Association (HALA) was formed to advocate for the best interests of the area and of the association's membership. Copies of this letter are being mailed to several other organizations and individuals, as noted below.

HALA members are in disbelief that the August 21, 2012 meeting with Northland Power representatives was stated to be the FINAL meeting prior to MOE approval of this project. A prior meeting was held concerning the Long Lake Solar project and at that time, some options of where the transmission line from the solar farms in Glackmeyer Township could run were displayed but not discussed. Apparently, there were other nearby connection options for the Glackmeyer Township projects but, according to Northland Power, these were deemed not feasible by Hydro One.

HALA members are appalled that the present proposal for the transmission line now involves a lengthy and expensive 20 km line from the Glackmeyer Township solar farms, along Concessions 8 & 9, around the environmentally sensitive south shore of Lower Deception Lake, and continuing along Concession 8 & 9 to where the Long Lake solar development would join the 20 km line and finally, hook up to the Hydro One substation in Hunta. Area residents have no concerns about the Long Lake solar farm project, as we feel that there will be little environmental or human impact from it.

When the government of Ontario proposed its Green Energy initiative, Northland Power got on the "band wagon" as they saw an opportunity to "cash in" on this 20 year government deal (selling power at prices that might be higher than the norm). We do not blame Northland Power for seeing an opportunity to expand its portfolio and generate extra income for their shareholders.

In our opinion, however, the purchase of lands for the purpose of constructing three solar farms was not fully thought out by Northland Power. Arrangements were made to purchase land in Glackmeyer Township without certain assurance from Hydro One as to where Northland could actually connect in close proximity to the grid. Good business judgment suggests that they should have fully informed themselves about this issue prior to making arrangements to purchase three large properties.

As to the fall-back option of a Glackmeyer-to-Hunta line, two separate options, each 20 km in length, were subsequently proposed, as shown in Fig. 1.3 of the Waterbody Report prepared by Hatch Inc. Now these options directly affect residents of Hunta and Lower Deception Lake! Residents of this area should not be "told" a transmission line will run in this area without further discussion or explanation.

The Hunta Area Landowners Association is strongly opposed to either of these "afterthought" transmission line options for several reasons:

1. **Health.** We are concerned about the safety of people living and working along the proposed transmission line along Concession road 8 & 9 between Lower Deception Lake and the Hunta Road (Highway 668). Children wait for the school bus in the proposed area; their parents and other adults are concerned about negative health consequences from proximity to high-voltage overhead lines. We are also concerned about the safety of road maintenance workers and landowners working in proximity to 115 KV conductors, many of whom may be inexperienced working around these highly energized conductors.
2. **Environment.** We are concerned about the impact that this proposed project will have on the pileated woodpecker, ospreys, eagles and other migratory birds that live, feed and nest around Lower Deception Lake and Deception Creek, especially in the wetland at the south end of the lake. Some birds are protected by the Ontario Endangered Species Act. Also there are other acts that must be observed, e.g., the Migratory Birds Convention Act and the Fish & Wildlife Conservation Act. HALA urges the necessity of an environmental impact study to be conducted by the Ministry of Natural Resources with regard to this proposed project.
3. **Forest Fire.** In the event of forest fire, we are concerned that the construction of hydro poles at the south end of the lake will prevent water bomber planes from landing and taking off from Lower Deception Lake, a lake which is known to be the only water body in close proximity (in this area) with sufficient length for landing and take off.
4. **Habitat.** We are concerned that this proposed transmission line will affect local trappers by creating open areas which leave martens and other small animals vulnerable to predation. The extent of normal habitats for many animals will be restricted by substantial clearing along the proposed transmission line route.
5. **Farms.** Local farmers have livestock in the fields near the proposed transmission line and are concerned about negative effects on their livestock, through lightning strikes or other electrical hazards.
6. **Property Values.** Property at Lower Deception Lake is a cottage development consisting of 29 lots as well as other properties adjacent to the lake and nearby Concession roads. Many of these are year round properties. Property owners have invested highly in their properties and now with this proposed transmission line in view at the south side of the lake, it is feared that these cottage and permanent home properties will lose value.
7. **Conflict of Interest.** We are concerned that the purchase of properties north of Cochrane violates Northland Power's own Code of Business Conduct and Ethics, as two of these properties belong to an employee of Northland Power. The Code of Business Conduct

states that "the Corporation expects that none of Northland's Representatives will take personal advantage of any business opportunity discovered through (his) position or through the use of the property or information of Northland."

Additional Questions:

1. Should the public road allowance be allowed to be used as part of the right of way for a private utility transmission line of this size?
2. Is the current road allowance wide enough for 115 KW lines?
3. Would this be a precedent setting installation, i.e., would other private businesses elsewhere be allowed to construct transmission lines of this size on public road allowances?
4. Shouldn't the road allowance be set aside for use of utilities that provide distribution services to local residents?
5. What would be the induction effect on existing utilities? Could there be voltage surges during storms caused by a 115 KV line close to a distribution line?
6. What if the 115 KV line comes in contact with the distribution line? Would there be damages to private property and should damages occur, who will pay for those damages?
7. Has there been a health study regarding the human impact of this proposed project?

We feel, as taxpaying citizens of Ontario, we have a right to oppose the construction of this private transmission line. We feel that Northland Power poorly planned the solar projects in Glackmeyer Township, and because of this poor planning, they now want to construct a 20 km transmission line to a distant hydro substation. Surely, better planning would have allowed them to purchase solar farm sites in much closer proximity to the necessary grid hook-up.

At the meeting of August 21, 2012, several attendees gave suggestions to Northland Power as to a more feasible solution which Northland staff said they would explore; however, they repeatedly said that the meeting was the Final Meeting and that they intended to proceed in February 2013 with construction of the transmission line. In other words, we residents felt the meeting was just a formality and that there was little that we could do about this...it was a "done deal".

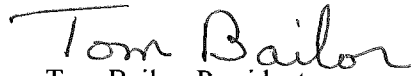
Other issues aside, one of the suggestions given to Northland Power was to review the Algonquin Power private line in the area which was constructed from the Long Sault Dam to Hunta several years ago. Could they not discuss with Algonquin Power the use of the land to construct the transmission line parallel to their line? This seems to us a good solution. Even if that easement were to be widened, there would not be additional harmful effect on the environment and wildlife in the area.

Shareholders and employees of Northland Power should not benefit financially (due to poor planning) at others' expense. The residents of Hunta and Lower Deception Lake are not opposed to Green Energy, but when we see an injustice and an unnecessary 20 km transmission line being built where other options should have been explored, we are appalled.

In conclusion, the residents of Clute Township near Lower Deception Lake DO NOT WANT THIS TRANSMISSION LINE. We have requested further meetings with Northland Power to obtain answers to many of these and other unanswered issues.

We look forward to your prompt reply to our concerns as soon as possible. You may contact me at 705-272-3460, and after September 18, 2012 at 717-964-2195.

Yours truly,



Tom Bailor, President,
Hunta Area Landowners Association

CC :

Charlie Angus MP
Gilles Bisson MPP
Marc Boucher MNR
Amy Cameron MNR
Bruce Campbell IESO
Cochrane Times-Post
Doris Dumais EAAB
Gary Funnell MNR
Pierre Gloutney, Northland Power Inc.
Martha Heidenheim MNR
Hunta Local Roads Board
Andrew Hinshelwood MCTS
Hunta Local Roads Board
Michael Lord, Northland Power Inc
Sean Male, Hatch Ltd.
André Marin, Ontario Ombudsman

Matachewan First Nation
Metis Nation of Ontario
Metis Nation of Ontario - Timmins
Northern Lights Metis Council
Ontario Energy Board
Ontario Ministry of Energy
Ontario Power Authority
Charles Proulx MTO
Jeff Reid Hydro One
Vic Schroter MOE
TaykwaTagamou Nation

Jennifer Telford MNR
Doug Theobald, NOW
John Vanthof, MPP
Wahgoshig First Nation

September 13, 2012

Chad Cote
Box 615
Cochrane, ON
P0L 1C0

Dear Mr. Cote:

Subject: Response to Comment Sheet from August 21, 2012 Public Meeting

Thank you for your comments, on the Northland Power – Abitibi, Empire and Martin's Meadows Solar Projects and the associated 115kV Transmission Line, submitted during the Public Meeting on August 21, 2012.

Please find the following responses to your specific comments below:

- With respect to your request for a topographic survey, Northland Power is currently completing such a survey of the area. Northland Power will consider your request to view this information once the survey is completed.
- In regards to your question about whether the transmission line will affect your present service, there will be no impact to your present electrical service as a result of the construction or operation of the Projects. It is anticipated that the transmission line will be constructed on the opposite side of the roadway from the existing Hydro One line.

If you have any further questions or comments, please do not hesitate to contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc.

Environmental Coordinator

cc: Rob Miller, Northland Power



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September 13, 2012

Cathy Shier
6 Centennial Court, Apt. 202
Kapuskasig, ON
P5N 3C9

Dear Ms. Shier:

Subject: Response to Comment Sheet from August 21, 2012 Public Meeting

Thank you for your comments, on the Northland Power – Long Lake Solar Project and the associated 115 kV Transmission Line, submitted during the Public Meeting on August 21, 2012.

Please find the following responses to your specific comments below:

1. Additional Public Meeting and Alternate Routes

As you will note in the attached letter, Northland will be having another public meeting on this Project in early October. This meeting is being held in response to interest in the 115 kV transmission line, including that expressed through the petition presented at the meeting. At this upcoming meeting, Northland will discuss the various transmission line options that have been considered, including the option of following the Algonquin Transmission Line.

2. Property Devaluation/Affects to Residents' Way of Life

The transmission line will be located primarily within the municipal road right of way. Transmission lines are permitted uses of municipal road right of ways, and this line will be consistent with other distribution lines present in the area. Unless you provide your permission, no aspect of the transmission line will be located on your property, and the operation of the line will not prevent you from accessing or using any portion of your property.

Northland Power will work with the community to mitigate potential effects to adjacent landowners to the greatest extent possible.

3. Impacts to Wildlife and the Ecosystem.

Potential impacts to wildlife and the ecosystem of the transmission line have been assessed within the Construction Plan Report and the Natural Heritage Environmental Impact Study for the Project. The transmission line is addressed within each of the reports associated with the Abitibi, Martin's Meadows



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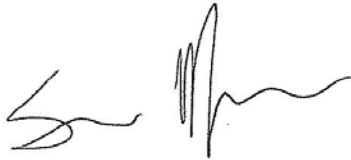
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September 13, 2012

and Empire Solar Projects. Mitigation measures to address environmental impacts of the transmission line are provided within these reports.

If you have any further questions or comments, please do not hesitate to contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean K. Male'.

Sean K. Male, M.Sc.

Environmental Coordinator

cc: Rob Miller, Northland Power

September 13, 2012

Luc Mayer
PO Box 2511,
Cochrane, ON
P0L 1C0

Dear Mr. Mayer:

Subject: Response to Comment Sheet from August 21, 2012 Public Meeting

Thank you for your comments, on the Northland Power – Long Lake Solar Project and the associated 115 kV Transmission Line, submitted during the Public Meeting on August 21, 2012.

Please find the following responses to your specific comments below:

1. Additional Public Meeting and Alternate Routes

Northland values the opinion of all members of the public and considers public consultation to be an integral part of the Renewable Energy Approval process. As you will note in the attached letter, Northland will be having another public meeting on this Project in early October. This meeting is being held in response to the interest in the 115 kV transmission line. At that meeting, Northland will discuss the various options that have been considered, including the option of following the Algonquin Transmission Line.

There are no plans to construct a transmission line through the south end of Lower Deception Lake itself. As you are aware, Rob Miller of Northland visited the area south of Lower Deception Lake with yourself following the public meeting to view the area considered for the transmission line. Northland is currently assessing the placement of the transmission line to minimize the impact on surrounding residents to the greatest extent possible.

2. Impacts to Natural Features.

Potential impacts to natural features and waterbodies of the transmission line have been assessed within the Construction Plan Report, the Waterbodies Environmental Impact Study and the Natural Heritage Environmental Impact Study for the Project. The transmission line is addressed within each of the reports associated with the Abitibi, Martin's Meadows and Empire Solar Projects. Mitigation measures to address environmental impacts of the transmission line are provided within these reports.



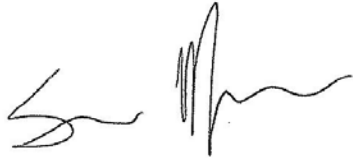
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September 13, 2012

If you have any further questions or comments, please do not hesitate to contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean K. Male'.

Sean K. Male, M.Sc.

Environmental Coordinator

cc: Rob Miller, Northland Power



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September 13, 2012

Amy Kindree
Concession 9
Hunta, ON
P0L 1C0

Dear Ms. Kindree:

Subject: Response to Comment Sheet from August 21, 2012 Public Meeting

Thank you for your comments, on the Northland Power – Abitibi, Empire and Martin's Meadows Solar Projects and the associated 115kV Transmission Line, submitted during the Public Meeting on August 21, 2012.

Please find the following responses to your specific comments below:

1. Notifications

As was noted in our previous correspondence, Northland Power identified a need to revise the location of the 115-kV transmission line from that proposed at the original meeting in 2011. As you were not located near the Project at that time, you would not have been included in the mailing list, hence the previous correspondence was your first notification of the Project. As you will see in the attached letter, Northland will be having another public meeting on this Project in early October. At that meeting, Northland will discuss the various options that have been considered. We hope that you will be able to attend.

2. Presentation Format

Northland values the opinion of all members of the public and considers public consultation to be an integral part of the Renewable Energy Approval process.

Our objective is to ensure that all members of the public are adequately informed about the public meeting. Detailed reports relating to the Project have been available both online and for public inspection for 60 days prior to the public meeting, and additional information was presented at the meeting. Can you please provide further information as to how you are misinformed so that we can provide you with appropriate responses?

The public meeting was advertised and held as an open house meeting. There was information on the Project presented on display boards and there were several Project representatives in attendance at the meeting to discuss your specific concerns about the Project. We have used this meeting style in the past



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on several occasions and have found it to be an effective method of providing information while also facilitating interaction with Project representatives to have your specific questions answered.

3. Health Concerns

Electromagnetic fields (EMF) consist of a mix of electric and magnetic waves travelling together at the speed of light (World Health Organization (WHO), 1998)). Magnetic fields are caused by the motion of an electric current, such as in a transmission or distribution line. Magnetic fields are measured in microtesla units (μT) and are proportional to current; however, in the case of three phase power, (such as is associated with the 115 kV transmission line), the three fields tend to cancel each other out at any one time, so the magnetic effect is only proportional to the leakage. The amount of leakage depends upon the configuration of the transmission line. Magnetic fields are also strongest closest to their source and diminish in strength with distance from the source (WHO, 1998).

WHO (2007) indicates that magnetic field strength is not dependant on voltage, although higher voltage transmission lines usually produce higher magnetic fields. The National Institute of Environmental Health Science (NIEHS), 1995 found that magnetic fields from a 115 kV transmission line generated a magnetic field of 6.3 μT maximum during Peak times on the right-of-way and 3 μT maximum on the right-of-way during average usage. Field strength decreased to 1.4 μT at a distance of 15 m from the line, and 0.04 μT at a distance of 91 m from the line (NIEHS, 1995; cited in WHO, 2007). WHO also studied the strength of magnetic fields generated from typical appliances in the home. They found that washing machines generated magnetic fields between 0.1 and 3 μT and microwave ovens generated magnetic fields between 0.1 and 20 μT (WHO, 2007). Thus, the magnetic field generated from the proposed transmission line will be within the range, and possibly significantly lower than magnetic fields generated in the home, from things like hair dryers, toasters, TV's, etc.. Please see the attached IEEE figure, which depicts typical EMF levels form common household items, and shows EMF levels for power lines connecting to homes.

WHO (2007) conducted a review of the potential health effects of magnetic fields. They found that there may be some acute (short term) biological effects due to exposure to magnetic fields in the range of up to 100 kHz. WHO (2007) therefore, recommended that exposure limits be set to prevent adverse effects and stated that international guidelines already exist to address this issue. Regarding longer term effects, WHO (2007) found that "consistent epidemiological evidence suggests that chronic low intensity ELF magnetic field exposure is associated with an increased risk of childhood leukemia. However, the evidence for a causal relationship is limited, therefore exposure limits based upon epidemiological evidence are not recommended, but some precautionary measures are warranted. Similarly, Health Canada, in its brochure entitled: Electric and Magnetic Fields At Extremely Low Frequencies, Updated January 2010 IT'S YOUR HEALTH, states:

"The International Agency for Research on Cancer (IARC) has evaluated the scientific data and has classified ELF magnetic fields as being "possibly carcinogenic" to humans. ... To put this into context, it is important to understand that the "possibly carcinogenic" classification is also applied to coffee, gasoline engine exhaust and pickled vegetables, and is often used for agents that require further study. In summary, when all of the studies are evaluated together, the evidence suggesting that EMFs may contribute to an increased risk of cancer is very weak."



Further, the Federal Provincial Territorial Radiation Protection Committee (FPTRPC), in Canada concluded from a review of all available evidence that “adverse health effects from exposure to power-frequency (e.g., transmission line frequency) EMFs, at levels normally encountered in homes, schools and offices, have not been established (FPTRPC, 2005a).

There are no national standards for residential or occupation exposure to EMF in Canada (FPTRPC,2005b); however, some countries have adopted standards for exposure, particularly for sensitive members of the population. For example, Italy recommends a goal of 10 μT for children’s playgrounds, residential dwellings, schools and areas where people stay for more than 4 hours per day (FPTRPC, 2005b). They also state a quality goal of 3 μT for new power lines in neighbourhoods (FPTRPC, 2005b). These guidelines and goals are higher than the expected exposure levels to the fields generated by the proposed transmission line from a distance of 15 m during peak times (1.4 μT).

In summary, even if the fields are measured directly beneath the transmission line, the effect of the electric field and the magnetic fields would be very small, probably even less than would be encountered in the average home. Therefore, based on this review, no adverse health effects due to EMF are predicted to occur as a result of the 115 kV transmission line and no mitigation measures are therefore necessary.

For your consideration, Northland Power has attached several reference documents with respect to potential health concerns of electric and magnetic fields.

References:

Federal Provincial Territorial Radiation Protection Committee – Canada (FPTRPC). 2005a. Position Statement for the General Public on the Health Effects of Power-Frequency (60 Hz) Electric and Magnetic Fields – Issued on January 20, 2005.

FPTRPC. 2005b. Health Effects and Exposure Guidelines Related to Extremely Low Frequency Electric and Magnetic Fields – an Overview. Prepared by the ELF Working Group. Online at <http://www.labour.gov.sk.ca/adx/asp/adxGetMedia.aspx?DocID=1351,1350,1191,94,88,Documents&MediaID=783&Filename=health-effects-and-exposure-guidelines-overview.pdf>. Accessed January 17, 2010.

Health Canada. 2010. It’s Your Health – Electric and Magnetic Fields at Extremely Low Frequencies. Available online at: <http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/environ/magnet-eng.php>. Accessed September 14, 2012.

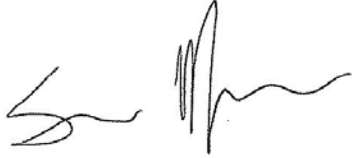
World Health Organization (WHO). 2007. Extremely Low Frequency Fields – Environmental Health Criteria Monograph No. 238. Online at http://www.who.int/peh-emf/publications/elf_ehc/en/index.html. Accessed January 23, 2012.

WHO. 1998. Electromagnetic Fields and Public Health: Extremely Low Frequency (ELF). Fact Sheet No. 205. Accessed January 19, 2012.



If you have any further questions or comments, please do not hesitate to contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca

Sincerely,

A handwritten signature in black ink, appearing to read "Sean K. Male".

Sean K. Male, M.Sc.

Environmental Coordinator

cc: Rob Miller, Northland Power



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September 13, 2012

Joanne Mayer
PO Box 2511
Cochrane, ON
P0L 1C0

Dear Ms. Mayer:

Subject: Response to Comment Sheet from August 21, 2012 Public Meeting

Thank you for your comments, on the Northland Power – Long Lake Solar Project and the associated 115 kV Transmission Line, submitted during the Public Meeting on August 21, 2012.

Please find the following responses to your specific comments below:

1. Additional Public Meeting and Alternate Routes

Northland values the opinion of all members of the public and considers public consultation to be an integral part of the Renewable Energy Approval process. As you will note in the attached letter, Northland will be having another public meeting on this Project in early October. This meeting is being held in response to the interest in the 115 kV transmission line, including that expressed through the petition presented at the meeting. At that meeting, Northland will discuss the various options that have been considered, including the option of following the Algonquin Transmission Line.

2. Community Involvement/Property Devaluation

Northland Power remains a committed member of the communities in which they work. In Cochrane, Northland is an existing significant employer, where it owns and operates the Cochrane Cogeneration power plant, which contributes to the community. This facility also provides steam to the Tim Horton community centres for space and pool heat, free of charge. Northland Power was the largest private donor helping to build the Polar Bear Habitat in Cochrane. They also sponsor minor hockey teams in the community and were the main sponsor helping to bring midget hockey back to Cochrane (The Cochrane Northland Power Chargers). Today Cochrane Power is the main sponsor of the Cochrane Power Bantam Blues Hockey Team. In addition to sponsoring many other community events and sports teams each year, such as the Cochrane Swim Club, Little Rocks Curling, Golf Tournaments and The Annual Winter Carnival Princess Pageant to name a few. Northland Power will work with the community to mitigate potential effects to adjacent landowners to the greatest extent possible.



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H334844-0000-90-218-0164, Rev. 0

3. Impacts to Wildlife and the Ecosystem.

Potential impacts to wildlife of the transmission line have been assessed within the Construction Plan Report and the Natural Heritage Environmental Impact Study for the Project. The transmission line is addressed within each of the reports associated with the Abitibi, Martin's Meadows and Empire Solar Projects. Mitigation measures to address environmental impacts of the transmission line are provided within these reports.

4. Hunta Transformer Substation Health Concerns

Northland Power was not involved in the design or construction of the Hunta Transformer Substation. Northland Power is working with Hydro One to ensure that the transformer substation is capable of appropriately managing the power that will be provided by the Projects. If you have further concerns about the transformer substations, toll-free electric and magnetic field (EMF) inquiries can be made of Hydro One at 1-800-728-9533. Hydro One also has information on EMF online at <http://www.hydroone.com/OurCommitment/Environment/Pages/ElectricandMagneticFields.aspx>.

The Hydro One web site above has links to a wealth of additional information provided on EMF, including Health Canada, the World Health Organization (WHO), The Canadian Electricity Association, etc. Further, Northland Power has attached several reference documents with respect to potential health concerns of electric and magnetic fields for your review.

5. Transmission Line Health Concerns

Electromagnetic fields (EMF) consist of a mix of electric and magnetic waves travelling together at the speed of light (World Health Organization (WHO), 1998)). Magnetic fields are caused by the motion of an electric current, such as in a transmission or distribution line. Magnetic fields are measured in microtesla units (μT) and are proportional to current; however, in the case of three phase power, (such as is associated with the 115 kV transmission line), the three fields tend to cancel each other out at any one time, so the magnetic effect is only proportional to the leakage. The amount of leakage depends upon the configuration of the transmission line. Magnetic fields are also strongest closest to their source and diminish in strength with distance from the source (WHO, 1998).

WHO (2007) indicates that magnetic field strength is not dependant on voltage, although higher voltage transmission lines usually produce higher magnetic fields. The National Institute of Environmental Health Science (NIEHS), 1995 found that magnetic fields from a 115 kV transmission line generated a magnetic field of 6.3 μT maximum during Peak times on the right-of-way and 3 μT maximum on the right-of-way during average usage. Field strength decreased to 1.4 μT at a distance of 15 m from the line, and 0.04 μT at a distance of 91-m from the line (NIEHS, 1995; cited in WHO, 2007). WHO also studied the strength of magnetic fields generated from typical appliances in the home. They found that washing machines generated magnetic fields between 0.1 and 3 μT and microwave ovens generated magnetic fields between 0.1 and 20 μT (WHO, 2007). Thus, the magnetic field generated from the proposed transmission line will be within the range, and possibly significantly lower than magnetic fields generated in the home, from things like hair dryers, toasters, TV's, etc.. Please see the attached IEEE figure, which depicts typical EMF levels form common household items, and shows EMF levels for power lines connecting to homes.



WHO (2007) conducted a review of the potential health effects of magnetic fields. They found that there may be some acute (short term) biological effects due to exposure to magnetic fields in the range of up to 100 kHz. WHO (2007) therefore, recommended that exposure limits be set to prevent adverse effects and stated that international guidelines already exist to address this issue. Regarding longer term effects, WHO (2007) found that “consistent epidemiological evidence suggests that chronic low intensity ELF magnetic field exposure is associated with an increased risk of childhood leukemia. However, the evidence for a causal relationship is limited, therefore exposure limits based upon epidemiological evidence are not recommended, but some precautionary measures are warranted. Similarly, Health Canada, in its brochure entitled: Electric and Magnetic Fields At Extremely Low Frequencies, Updated January 2010 IT’S YOUR HEALTH, states:

“The International Agency for Research on Cancer (IARC) has evaluated the scientific data and has classified ELF magnetic fields as being “possibly carcinogenic” to humans. ... To put this into context, it is important to understand that the “possibly carcinogenic” classification is also applied to coffee, gasoline engine exhaust and pickled vegetables, and is often used for agents that require further study. In summary, when all of the studies are evaluated together, the evidence suggesting that EMFs may contribute to an increased risk of cancer is very weak.”

Further, the Federal Provincial Territorial Radiation Protection Committee (FPTRPC), in Canada concluded from a review of all available evidence that “adverse health effects from exposure to power-frequency (e.g., transmission line frequency) EMFs, at levels normally encountered in homes, schools and offices, have not been established (FPTRPC, 2005a).

There are no national standards for residential or occupation exposure to EMF in Canada (FPTRPC,2005b); however, some countries have adopted standards for exposure, particularly for sensitive members of the population. For example, Italy recommends a goal of 10 μT for children’s playgrounds, residential dwellings, schools and areas where people stay for more than 4 hours per day (FPTRPC, 2005b). They also state a quality goal of 3 μT for new power lines in neighbourhoods (FPTRPC, 2005b). These guidelines and goals are higher than the expected exposure levels to the fields generated by the proposed transmission line from a distance of 15 m during peak times (1.4 μT).

In summary, even if the fields are measured directly beneath the transmission line, the effect of the electric field and the magnetic fields would be very small, probably even less than would be encountered in the average home. Therefore, based on this review, no adverse health effects due to EMF are predicted to occur as a result of the 115 kV transmission line and no mitigation measures are therefore necessary.

References:

Federal Provincial Territorial Radiation Protection Committee – Canada (FPTRPC). 2005a. Position Statement for the General Public on the Health Effects of Power-Frequency (60 Hz) Electric and Magnetic Fields – Issued on January 20, 2005.

September 13, 2012

FPTRPC. 2005b. Health Effects and Exposure Guidelines Related to Extremely Low Frequency Electric and Magnetic Fields – an Overview. Prepared by the ELF Working Group. Online at <http://www.labour.gov.sk.ca/adx/asp/adxGetMedia.aspx?DocID=1351,1350,1191,94,88,Documents&MediaID=783&Filename=health-effects-and-exposure-guidelines-overview.pdf>. Accessed January 17, 2010.

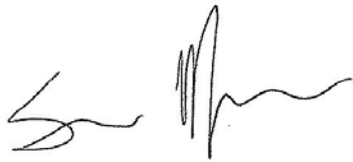
Health Canada. 2010. It's Your Health – Electric and Magnetic Fields at Extremely Low Frequencies. Available online at: <http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/environ/magnet-eng.php>. Accessed September 14, 2012.

World Health Organization (WHO). 2007. Extremely Low Frequency Fields – Environmental Health Criteria Monograph No. 238. Online at http://www.who.int/peh-emf/publications/elf_ehc/en/index.html. Accessed January 23, 2012.

WHO. 1998. Electromagnetic Fields and Public Health: Extremely Low Frequency (ELF). Fact Sheet No. 205. Accessed January 19, 2012.

If you have any further questions or comments, please do not hesitate to contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.

Environmental Coordinator

cc: Rob Miller, Northland Power



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September 18, 2012

Elizabeth Hardin
RR4
Hunta, ON P0L 1C0

Dear Ms. Hardin:

**Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line -
Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier, and one solar project near the town of Hunta in unorganized township of Calder. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project in Cochrane, and the Long Lake Solar Project in Calder. Each Project will have an installed nominal capacity of 10 MW (AC). These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Following the public meeting on August 21, 2012, Northland Power received several requests for an additional meeting on the 115-kV transmission line associated with the Abitibi, Empire and Martin's Meadows Solar Projects. In response to these requests, and in order to provide the public with further information on the proposed 115-kV transmission line, another public meeting has been scheduled. This meeting will be held on October 4, 2012 at both the Tim Horton's Events Centre and the Hunta Mennonite Church. The meeting in Cochrane will commence at 5:00 p.m. with a presentation, which will be followed by a question-and-answer session. The meeting in Hunta will follow the same format and present the same information, and will commence at 7:30 p.m. Though the primary focus of this public meeting will be on the proposed transmission line, Northland Power will also welcome any comments or questions relating to the solar projects themselves.

Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which further details the time and date of the planned meeting. This Notice will also be published in the *Cochrane Times Post* on Thursday September 20, 2012.

In accordance with Section 16 (3) of Ontario Reg. 359/09, draft reports associated with these Projects can be found on-line at

- www.northlandpower.ca/abitibi
- www.northlandpower.ca/empire
- www.northlandpower.ca/martinsmeadows
- www.northlandpower.ca/longlake.

September 18, 2012

As well, hard copies are available at the Town of Cochrane municipal office and at the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for viewing). We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

A handwritten signature in black ink, appearing to read "Sean Male".

Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

James Wright
Box 2, RR4
Hunata, ON P0L 1C0

Dear Mr. Wright:

Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line - Abitibi Solar Project, Empire Solar Project, Martin's Meadows Solar Project, Long Lake Solar Projects

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Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Hazel VanAlstine
Box 2, Site 1
Frederickhouse, ON P0L 1K0

Dear Ms. VanAlstine:

**Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line -
Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

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Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Barbara Lacoursiere
RR4, Box 3
Hunta, ON P0L 1C0

Dear Ms. Lacoursiere:

**Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line -
Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

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REA Coordinator
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Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Denis Bradette
PO Box 2270
Cochrane, ON P0L 1C0

Dear Mr. Bradette:

**Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line -
Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

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Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Hans Kluver
PO Box 1955
Cochrane, ON P0L 1C0

Dear Mr. Kluver:

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Solar Project, Long Lake Solar Projects**

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Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Chad Cote
Box 615
Cochrane, ON P0L 1C0

Dear Mr. Cote:

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Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

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Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Cathy Shier
6 Centennial Court, Apt. 202
Kapusksasing, ON P5N 3C9

Dear Ms. Shier:

**Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line -
Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier, and one solar project near the town of Hunta in unorganized township of Calder. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project in Cochrane, and the Long Lake Solar Project in Calder. Each Project will have an installed nominal capacity of 10 MW (AC). These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Following the public meeting on August 21, 2012, Northland Power received several requests for an additional meeting on the 115-kV transmission line associated with the Abitibi, Empire and Martin's Meadows Solar Projects. In response to these requests, and in order to provide the public with further information on the proposed 115-kV transmission line, another public meeting has been scheduled. This meeting will be held on October 4, 2012 at both the Tim Horton's Events Centre and the Hunta Mennonite Church. The meeting in Cochrane will commence at 5:00 p.m. with a presentation, which will be followed by a question-and-answer session. The meeting in Hunta will follow the same format and present the same information, and will commence at 7:30 p.m. Though the primary focus of this public meeting will be on the proposed transmission line, Northland Power will also welcome any comments or questions relating to the solar projects themselves.

Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which further details the time and date of the planned meeting. This Notice will also be published in the *Cochrane Times Post* on Thursday September 20, 2012.

In accordance with Section 16 (3) of Ontario Reg. 359/09, draft reports associated with these Projects can be found on-line at

- www.northlandpower.ca/abitibi
- www.northlandpower.ca/empire
- www.northlandpower.ca/martinsmeadows
- www.northlandpower.ca/longlake.

September 18, 2012

As well, hard copies are available at the Town of Cochrane municipal office and at the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for viewing). We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

A handwritten signature in black ink, appearing to read "Sean Male", with a stylized flourish at the end.

Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Joanne Mayer
PO Box 2511
Cochrane, ON P0L 1C0

Dear Ms. Mayer:

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Abitibi Solar Project, Empire Solar Project, Martin's Meadows
Solar Project, Long Lake Solar Projects**

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REA Coordinator
SM:srg

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Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

September 18, 2012

Amy Kindree
Concession 9
Hunta, ON P0L 1C0

Dear Ms. Kindree:

Subject: Notice of Public Meeting - Northland Power - 115 kV Transmission Line - Abitibi Solar Project, Empire Solar Project, Martin's Meadows Solar Project, Long Lake Solar Projects

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REA Coordinator
SM:srg

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cc: Rob Miller, Northland Power

September 18, 2012

Luc Mayer
PO Box 2511
Cochrane, ON P0L 1C0

Dear Mr. Mayer:

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Attachment: Notice of a Proposal/Notice of Public Meeting –
Abitibi , Empire and Martin's Meadows Solar Projects

cc: Rob Miller, Northland Power

October 1, 2012

Tom Bailor, President
Hunta Area Landowner Association
R.R 4,
Hunta, On
P0L 1P0

Dear Mr. Bailor:

Subject: Response to Hunta Area Landowner Association

Thank you for your comments, on the Northland Power (Northland) – Abitibi, Empire and Martin’s Meadows and Long Lake Solar Projects and the associated 115-kV Transmission Line, provided in a letter dated September 10, 2012.

Northland would like to clarify that at the time of the August 21, 2012 meeting; they indicated that the meeting would be the final meeting before Northland submitted the applications for a Renewable Energy Approval (REA) to the Ontario Ministry of the Environment (MOE) for the Projects. While, this meeting was identified as a final public meeting, or the second PIC, it was in no way the final point at which the public could provide input.

After the August 21, 2012 meeting, Northland considered the feedback and multiple requests for an additional meeting, and the result are the October 4, 2012 meetings, or PIC No. 3.

Northland has continued with public consultation on the proposed 115-kV transmission line and two more public meetings are planned to occur on Thursday, October 4, 2012, at the Tim Horton’s Event Centre, 7 Tim Horton’s Drive, Cochrane, Ontario from 5:00 p.m. to 7:00 p.m. and at the Hunta Mennonite Church, Lot 28, Concession 6, Hunta, Ontario from 7:30 p.m. to 9:30 p.m. Both of these meetings are to begin with a presentation followed by a question and answer period.

Northland and Hatch Ltd. (Hatch) will include all of the agency and stakeholder correspondence, and responses in the “Consultation Report”, which is one of the last components needed in order to make the REA submissions to the MOE.

Once the REA applications are submitted, it typically takes the MOE approximately 60 days to deem them complete. The public will have an additional 30 days to review the complete submission and provide comments directly to the MOE as well comments can be provided to the MOE at any point in time.

The MOE will undertake their rigorous review process before ultimately deciding whether to approve the Projects. Once submitted, a REA approval can take upwards of 8 months; 2 months for the MOE to deem the application complete, plus another 6 months to approve the REA.



Safety • Quality • Sustainability • Innovation

H334844-0000-90-218-0173, Rev. 0

1. Health

Concerns have been expressed in regards to the potential impact of high voltage overhead lines. Two specific areas are addressed separately below: Electric and Magnetic Fields and Safety of Maintenance Workers and Nearby Landowners

Electric and Magnetic Fields Electromagnetic fields (EMF) consist of a mix of electric and magnetic waves travelling together at the speed of light (World Health Organization (WHO), 1998)). Magnetic fields are caused by the motion of an electric current, such as in a transmission or distribution lines. Magnetic fields are also strongest closest to their source and diminish in strength with distance from the source (WHO, 1998).

WHO (2007) indicates that magnetic field strength is not dependant on voltage, although higher voltage transmission lines usually produce higher magnetic fields. The National Institute of Environmental Health Science (NIEHS), 2002 found that magnetic fields generated from transmission lines are within the range, and possibly significantly lower than magnetic fields generated in the home, from things like hair dryers, toasters, TV's, etc. Please see the attached IEEE figure, which depicts typical EMF levels from common household items, and shows EMF levels for power lines connecting to homes.

Health Canada, in its brochure entitled: Electric and Magnetic Fields at Extremely Low Frequencies, Updated January 2010 IT'S YOUR HEALTH, states:

"You do not need to take action regarding daily exposures to electric and magnetic fields at extremely low frequencies. There is no conclusive evidence of any harm caused by exposures at levels found in Canadian homes and schools, including those located just outside the boundaries of power line corridors.

This brochure also states:

"Health Canada does not consider guidelines for the Canadian public necessary because the scientific evidence is not strong enough to conclude that exposures cause health problems for the public."

Further, the Federal Provincial Territorial Radiation Protection Committee (FPTRPC), in Canada concluded from a review of all available evidence that "adverse health effects from exposure to power-frequency (e.g., transmission line frequency) EMFs, at levels normally encountered in homes, schools and offices have not been established (FPTRPC, 2005a).

In summary, even if the fields are measured directly beneath the transmission line, the effect of the electric field and the magnetic fields would be very small, most likely less than would be encountered in the average home from a hair dryer or toaster. Therefore, based on this review, no adverse health effects due to EMF are predicted to occur as a result of the 115-kV transmission line and no mitigation measures are therefore necessary.

For your consideration, Northland Power has attached several reference documents with respect to potential health concerns of electric and magnetic fields.



References:

- Federal Provincial Territorial Radiation Protection Committee – Canada (FPTRPC). 2005a. Position Statement for the General Public on the Health Effects of Power-Frequency (60 Hz) Electric and Magnetic Fields – Issued on January 20, 2005.
- FPTRPC. 2005b. Health Effects and Exposure Guidelines Related to Extremely Low Frequency Electric and Magnetic Fields – an Overview. Prepared by the ELF Working Group. Online at <http://www.labour.gov.sk.ca/adx/asp/adxGetMedia.aspx?DocID=1351,1350,1191,94,88,Documents&MediaID=783&Filename=health-effects-and-exposure-guidelines-overview.pdf>. Accessed January 17, 2010.
- Health Canada. 2010. It's Your Health – Electric and Magnetic Fields at Extremely Low Frequencies. Available online at: <http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/enviro/magnet-eng.php>. Accessed September 14, 2012.
- National Institute of Environmental Health Sciences. 2002. EMF – Electric and Magnetic Fields Associated With the Use of Electric Power. 65pp. Available on line at http://www.niehs.nih.gov/health/assets/docs_p_z/results_of_emf_research_emf_questions_answers_booklet.pdf
- World Health Organization (WHO). 2007. Extremely Low Frequency Fields – Environmental Health Criteria Monograph No. 238. Online at http://www.who.int/peh-emf/publications/elf_ehc/en/index.html. Accessed January 23, 2012.
- WHO. 1998. Electromagnetic Fields and Public Health: Extremely Low Frequency (ELF). Fact Sheet No. 205. Accessed January 19, 2012.

Maintenance Workers and Nearby Landowners

In regards to the health and safety of maintenance workers and nearby landowners, the 115-kV transmission line will be constructed in accordance with prescribed electrical safety codes in order to ensure the safety of workers and the public. Poles will be appropriately signed to make individuals aware of the electrical hazard associated with climbing the poles.

2. Environment

Potential impacts to wildlife of the transmission line have already been assessed in great detail within the Construction Plan Report and the Natural Heritage Environmental Impact Study (EIS). The transmission line is addressed within each of the reports associated with the Abitibi, Martin's Meadows and Empire Solar Projects. Mitigation measures to address environmental impacts of the transmission line are provided within these reports. Overall, no significant impact to wildlife is anticipated. The Natural Heritage Environmental Impact Study has been reviewed and approved by the Ontario Ministry of Natural Resources, based on the Letter of Confirmation (LoC) that was received for each project. These LoC's are found in the Executive Summary associated with each Project, available on the Project web sites and at the Hunta Mennonite Church and the Town of Cochrane municipal office.



Further, Northland Power is committed to conforming to all applicable legislation, including the *Ontario Endangered Species Act*, *Migratory Birds Convention Act* and the *Fish and Wildlife Conservation Act*.

3. Forest Fire

Northland contacted the Ontario Ministry of Natural Resources (MNR) with respect to the concern or question raised with respect to the potential impedance of water bomber planes landing on Deception Lake. The MNR responded and stated that the placement of a 115-kV transmission line near the south end of Lower Deception Lake would not hinder any firefighting efforts, and they did not identify any potential concerns with respect to the transmission line in this area.

4. Habitat

We do not anticipate any impacts to local trappers. Northland has requested that the MNR notify registered trapline holders in the area of the upcoming public meeting. As the names of these individuals are confidential and not available to Northland to contact through any other means, should any of them come forward, Northland will work with them to resolve any concerns that they may have.

The construction of the majority of the 115-kV transmission line will be primarily completed along existing access roads, which will therefore not result in additional open areas or clearing, as was incorrectly indicated in your correspondence. There are already existing open areas in the area between the Algonquin transmission line and Lower Deception Lake. Though these areas may be widened somewhat to accommodate the transmission line, a significant increase in predation pressure is not anticipated. Furthermore, though periodic vegetation management will be required to make sure that vegetation does not interfere with the line, shrubs and tall meadow vegetation will be allowed to develop. This vegetation will provide cover for wildlife as they move beneath the transmission line.

5. Farms

In respect of livestock operations, electrical hazards associated with the proposed transmission line include stray voltage or EMFs.*

Stray voltage will not be a potential impact as the transmission line would have to be connected to your barn or out buildings. Though, if a stray voltage problem is suspected Northland is committed to working to resolve any potential issue. Additional information on stray voltage is available on line at the Ministry of Agriculture, Food and Rural Affairs:

<http://www.omafra.gov.on.ca/english/livestock/dairy/facts/strayvol.htm>, or provided in the attached Hydro One (2012) fact sheet.

Further, research has shown that EMF associated with transmission lines does not negatively impact cows (Hydro Quebec, 1999). For more information on EMF and stray voltage please refer the attached document:

Hydro Quebec. (1999.) Effects of Electric and Magnetic Fields on Livestock Health and Productivity.
Hydro Quebec.



With respect to lightning strikes, no poles will be installed within a farmer's fields without that individual's permission. We have also addressed this concern with an electrical engineer. In general, cloud to ground lightning tends to strike the highest object in the area as it's looking for the least impedance path, which, in effect is usually the shortest path. The transmission support poles for the Project will be a total of approximately 65 ft above the ground. It is not expected that the poles would serve to attract lightning. Further the system will be grounded, reducing any potential impacts of a lightning strike.

If the air around an object is ionized, then lightning does tend to strike towards the ionized area. For extremely high voltage (EHV) applications, that is, transmission lines of 500 kV and up, you do tend to get corona effects around insulators and fittings which does tend to ionize the air around it. Research does tend to indicate that this might, at least partially account for the relatively high strikes on EHV lines, but remember that a 500-kV line is very high up in the air by itself in order to get the ground clearance, and again, it is likely to be the highest structure around. It is unlikely that the 115-kV line would have sufficient corona to cause ionization around the insulators/fittings such as to "attract" lightning.

6. Property Values

The transmission line will be located primarily within the municipal road right of way. Transmission lines are permitted uses of municipal road right of ways, and this line will be consistent with other distribution lines present in the area. Unless you provide your permission, no aspect of the transmission line will be located on your property, and the operation of the line will not prevent you from accessing or using any portion of your property. Further, while the exact location of the transmission line has yet to be determined, the intent is to place the transmission line beyond the line of sight from the cottage development area around Lower Deception Lake.

Northland will work with the community to mitigate potential effects to adjacent landowners to the greatest extent possible.

7. Conflict of Interest

Northland conforms to its Code of Business Conduct and Ethics in regards to all of its business dealings. All of the land secured for the various projects was condoned through Northland Power to allow for the development of solar facilities.

8. Additional Numbered Questions

1) Should the public road allowance be allowed to be used as part of the right of way for a private utility transmission line of this size?

The use of public right of way for utilities, including transmission lines is standard practise. It is generally the least disruptive, most economical, and environmentally friendly way to install utilities, given the lands have typically been previously disturbed, and are linear in nature, which is well suited for utilities. The proposed transmission line within the Concession 8 and 9 corridor remains in compliance with the applicable and allowable use for this land. As well, this right of way will continue



to remain open for other utilities, as only a portion of the land will be used for the proposed transmission line.

2) Is the current road allowance wide enough for 115-KW lines?

Yes. The current road allowance is approximately 21 m, of which the transmission line will need to be placed 2.5 m away from one of the existing boundaries. The edges of road right of ways (ROW's) are commonly used for utilities.

3) Would this be a precedents setting installation i.e., would other private businesses elsewhere be allowed to construct transmission lines of this size on public road allowances?

The use of public road allowances for the construction of transmission lines is not precedent setting and it remains consistent with potential land uses. Similar uses are permitted in other jurisdictions on a regular basis.

4) Shouldn't the road allowance be set aside for use of utilities that provide distribution services to local residents?

The use of the road allowance for the proposed transmission corridor will not conflict with any future use of this road allowance, as land will remain available for future development of other utilities, be it gas, phone, cable, electricity, etc.

5) What would be the induction effect on existing utilities? Could there be voltage surges during storms caused by a 115-kV line close to a distribution line?

The proposed 115-kV transmission line will be located on the opposite side of the road allowance from an existing distribution line and on a private easement around the south shore of Deception Lake. If the proposed 115-kV transmission line is required to parallel the line, for example a Hydro One distribution line, there is a code regulated separation distance, which is 15 m or more. The 115-kV transmission line will have little induction effect on the local distribution line. An induction study will be carried out to ensure no adverse effects on the on local distribution line.

The proposed 115-kV transmission line along the route is not integrated with the existing local distribution line, and therefore there is not anticipated effect to the existing line during storms as a result of the proposed 115-kV transmission line.

6) What if the 115-kV line comes in contact with the distribution line? Would there be damages to private property and should damages occur, who will pay for those damages?

The proposed 115-kV transmission line will be designed and constructed to meet and exceed all relevant codes and regulations for public safety. The proposed line will be designed to withstand 1 in 50-yr period combined wind and icing weather conditions, and 1 in 100-yr gust wind conditions, to ensure public and adjacent property safety. If Northland's (proposed) privately owned transmission line was to somehow cause property damage to another party, then Northland's insurance would be used.



Where there are crossings between the proposed 115-kV transmission line and the existing local distribution line, the clearance between the two lines will be sufficient to ensure no contact will occur under the most severe conditions.

Further, Northland will work with the community to mitigate potential effects to adjacent landowners to the greatest extent possible.

7) Has there been a health study regarding the human impact of the proposed project?

As detailed in the response to **1. Health**, the amount of EMFs occurring beneath the transmission line would be minimal, comparable to, or less than, the amount found in an average home. The referenced information in regards to the potential impacts of EMF provide further studies regarding these proposed impacts.

9. Responses to Other Comments

Site Selection

Transmission Line Routing Options

With respect to the options for the transmission line previously presented within the Project reports, there were three options originally considered:

- Option 1: Transmission line running from the Martin's Meadows Solar Project along Concession 8/9 and within municipal road right of way – Total Distance: Approximately 21 km. This is the preferred option and it is what Northland is proposing to construct.
- Option 2: Transmission line running from the Martin's Meadows Solar Project, west along Concession 8/9, south along Highway 636, west along Concession 6/7, and south along Highway 668 – Total Distance: Approximately 25 km.
- Option 3: Transmission line running from the Martin's Meadows Solar Project along Concession 8/9 and within municipal road right of way, then south along Highway 668 – Total Distance: Approximately 25 km.

With respect to investigating other options, for example, connecting to Algonquin Power's line, or paralleling it, this was explored as promised. The HALA group's assertion that "Even if that easement were to be widened, there would not be additional harmful effect on the environment and wildlife in the area", is incorrect.

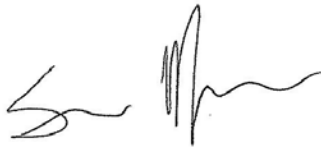
Paralleling the Algonquin line would be disruptive and require additional land clearing and disturbance, compared to following the existing road right away. The existing Algonquin Power line was built many years ago, at a time when there was less environmental regulation. It appears as if this line was constructed in as direct a line as possible, between the Long Sault hydro electric generating station and the Hunta TS, which at the time would have been the most direct, least environmentally disruptive and most cost effective way to connect to the Hydro One grid. This is the same logic that Northland is using to connect its power plants.



Northland did approach Algonquin Power to inquire about connecting to their circuit and this request was denied. It is not technically, commercially, or economically feasible to connect to the Algonquin line. The conductors are sized to carry the generation from Long Sault to the Hunta TS and there is no additional line capacity to accommodate the 30 MW of generation from Northland's eastern solar projects. In addition, Hydro One does not want generators connecting to other private lines. Hydro One and the Independent Electricity System Operator (IESO) dictate that generators participating in the OPA FIT Program are to connect to Hydro One's main circuits.

If you have any further questions or comments, please do not hesitate to contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca

Sincerely,



Sean Male, M.Sc.,
Environmental Coordinator
SM:mg

cc: Rob Miller, Northland Power



Federal-Provincial-Territorial Radiation Protection Committee – Canada

Position Statement for the General Public on the Health Effects of Power-Frequency (60 Hz) Electric and Magnetic Fields – Issued on January 20, 2005

1. Electric and magnetic fields (EMFs) are produced by the generation, transmission, distribution and use of electrical energy at power frequencies (60 Hz in Canada). People are exposed to these fields while in close proximity to power lines and other electrical facilities, as well as electrical wiring, equipment and appliances in homes, schools and workplaces.
2. Studies to investigate the health effects of these fields have taken place around the world for more than thirty years. These studies include laboratory research into effects on cells and animals, as well as epidemiological (human health) studies looking at possible associations between exposures and diseases in the population. Short- and long-term scientific investigations have been conducted and are continuing.
3. Laboratory research has shown that power-frequency EMFs can interact with biological systems; however, results to date have not provided conclusive evidence that these fields cause adverse health effects, such as cancer. Epidemiological studies have not established an association between exposure to power-frequency EMFs and the development of cancer in adults. The evidence associating cancer in children with exposure to power-frequency EMFs remains inconclusive.
4. After a recent evaluation of the scientific data, the International Agency for Research on Cancer classified extremely-low-frequency (ELF) magnetic fields as "possibly carcinogenic to humans" based on studies of childhood cancer (<http://monographs.iarc.fr>). "Possibly carcinogenic to humans" is a classification used to denote an agent for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence for carcinogenicity in experimental animals. In the case of ELF fields, the evidence is not strong enough to conclude that they cause cancer in children. More studies are needed to draw firm conclusions.
5. Immediate biological effects can result from direct exposure but only at field strength levels well above those typically found in living environments. Peripheral nerve and muscle stimulation can be caused by intense magnetic fields and hair stimulation by intense electric fields. Minor shocks may be caused by touching poorly-grounded, conducting (metallic) objects located under some high voltage lines, as a result of electrical charge induced by high intensity electric or magnetic fields.

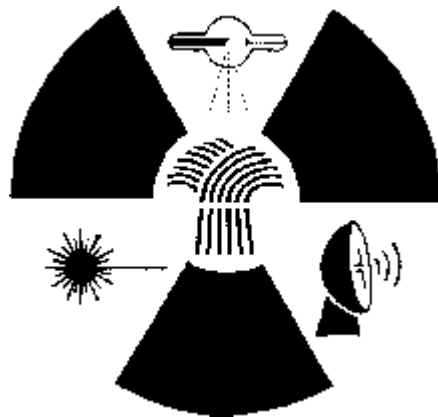
6. Based on the available scientific evidence to date, the Federal Provincial Territorial Radiation Protection Committee (FPTRPC) concludes that adverse health effects from exposure to power-frequency EMFs, at levels normally encountered in homes, schools and offices, have not been established. Protection of the public against acute effects, such as minor shocks that may occur from contact with conducting objects under high voltage power lines, can be achieved through awareness initiatives undertaken by the electrical power industry.
 7. There have been increasing requests from concerned citizens that the precautionary principle (PP) be used in a number of areas, including exposure to EMFs. It should be noted that the extent of PP covers a variety of measures ranging from moderate methods such as monitoring scientific developments and providing information, through participation in the process of acquiring new knowledge by carrying out research, to stronger measures such as lowering exposure limits. Since there is no conclusive evidence that exposure to EMFs at levels normally found in Canadian living and working environments is harmful, FPTRPC is of the opinion that moderate measures and participation in the process of acquiring new knowledge are sufficient. These types of activity are consistent with the Canadian government framework on precaution.
 8. The FPTRPC will continue to monitor scientific research relating to the health effects of power-frequency EMFs and will reassess its position periodically as new information becomes available.
-

Notes:

- (a) This Position Statement replaces the previous Position Statement (first released by the FPTRPC in November 1998 and updated in October 2002).
- (b) This Position Statement is not intended to provide direction on health and safety aspects of electromagnetic interference by EMFs with medical electronic devices, including cardiac pacemakers. Electromagnetic interference with such devices requires different considerations from those used in the evaluation of human health effects.

Extremely Low Frequency (ELF) Electric and Magnetic Fields:

Health Effects and Exposure Guidelines



Report RSU 119/OT/0799

*Occupational Health and Safety Division
Radiation Safety Unit
1870 Albert Street
Regina, Saskatchewan
S4P 3V7*

August 16, 1999

HEALTH EFFECTS AND EXPOSURE GUIDELINES
RELATED TO
EXTREMELY LOW FREQUENCY (ELF) 50/60 Hz
ELECTRIC AND MAGNETIC FIELDS



Prepared by a Working Group of the
Federal Provincial Territorial Radiation Protection Committee

Canada
1998

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HEALTH EFFECTS AND EXPOSURE GUIDELINES

RELATED TO

EXTREMELY LOW FREQUENCY (ELF) 50/60 Hz

ELECTRIC AND MAGNETIC FIELDS

--- A N O V E R V I E W ---

**Prepared by a Working Group of the
Federal-Provincial Territorial Radiation Protection Committee**

**Canada
1998**

FEDERAL - PROVINCIAL - TERRITORIAL RADIATION PROTECTION COMMITTEE

The Federal-Provincial Territorial Radiation Protection Committee was established to support Federal, Provincial and Territorial government radiation protection agencies with their respective mandates, in Canada.

The Mission of the Committee is to advance the development and harmonization of practices and standards for radiation protection within Federal, Provincial and Territorial jurisdictions.

The Committee comprises a forum of delegates from each of the following government organizations:

Atomic Energy Control Board

Health Canada - Radiation Protection Bureau

Provincial and Territorial Radiation Protection Programs

To assist in fulfilling its mandate, the Committee may establish Sub-committees or Working Groups to address issues of concern that are brought to the Committee's attention. The work of the Committee may involve the preparation of public documents such as Position Statements and Technical Reports; supporting the development and review of National Standards, Guidelines and Codes of Practice; and briefing member organizations and their governing bodies.

For further information on the Committee or its documents, please contact any of the representative agencies listed on the inside back cover of this report. Comments on all documents are welcome.

HEALTH EFFECTS AND EXPOSURE GUIDELINES
RELATED TO ELF (50/60 Hz) ELECTRIC AND MAGNETIC FIELDS

- AN OVERVIEW -

Introduction

Concerns exist over the possibility that exposure to electric and magnetic fields (EMF) of extremely low frequency (ELF) may present a health hazard to workers and the general public. This concern has arisen as a result of the controversial and contradictory findings in the scientific research, especially from epidemiological studies. This overview summarises recent scientific information on health effects and provides a status report on exposure guidelines that have been developed to date. The information is particularly relevant for government officials in Canada responsible for formulating occupational and public health policies and for providing guidance to interested or concerned persons.

Background

The wide spread use of electric power particularly in industrial societies makes this issue one of international concern. Health problems in the work place, thought to be associated with ELF exposure were first reported in a group of Russian electrical switchyard workers in the 1960's and created widespread scientific interest. In the late 1970's and early 1980's reports suggesting a link between ELF residential exposures and childhood and adult cancers heightened public anxiety. Following these early reports, extensive national and international research programs were initiated.

In Canada, concerns emerged during the mid 1980's which stimulated the formation of a national Working Group on Electric and Magnetic Fields, co-ordinated by the former Federal Department of National Health and Welfare. Representatives on this group were drawn from Canadian labour, utility companies, academia as well as federal and provincial government scientists. A report from the Working Group [1] published in 1989, reached a number of conclusions based on the status of knowledge at that time. It made recommendations regarding the need for further research as well as the necessity to inform workers and the general public about this matter (see Appendix 1).

In the United States, a large number of research papers and overview reports have been produced along with numerous conferences over the past 15 years. Unfortunately, the findings remain controversial, contradictory and seem only to exasperate rather than resolve public concern. The research findings are succinctly expressed in the conclusion

of the draft review report titled: "Evaluation of the Potential Carcinogenicity of Electromagnetic Fields", prepared by the U.S. Environmental Protection Agency in 1990 [2]. The report was only an initial draft circulated for review and was never published. In spite of clear warnings not to cite or quote, there was significant public citing and quoting. The draft report conclusion which appears to have been adopted by the public was "While there are epidemiological studies that indicate an association between EM fields or their surrogates and certain types of cancer, other epidemiological studies do not substantiate this association. There is insufficient data to determine whether or not a cause and effect relationship exists."

There has been a plethora of critical reviews, public inquiry reports, public review drafts, summaries etc. published by Universities, Government Departments, Utilities, and other expert bodies. For example, the National Council on Radiation Protection and Measurements (NCRP) in Bethesda, Maryland, set up a committee chaired by Dr. W. Ross Adey to review the possible health effects of ELF's. The National Academy of Sciences committee, chaired by Dr. Charles Stevens, Salk Institute, California released a report in 1996 concluding: "No clear, convincing evidence exists to show that residential exposures to electric and magnetic fields (EMFs) are a threat to human health,...There is no conclusive evidence that electromagnetic fields play a role in the development of cancer, reproductive and developmental abnormalities, or learning and behavioral problems". This report did leave the door open with regard to further research, particularly into the causes of childhood leukemia. The United Kingdom's National Radiological Protection Board (NRPB) established an Advisory Group on Non-Ionizing Radiation in 1990 to review the scientific evidence and determine the extent to which this evidence suggests possible health risks. The International Non-Ionizing Radiation Committee (INIRC) of the International Radiation Protection Association (IRPA) in co-operation with the Environmental Health Division of the World Health Organization (WHO) developed recommendations for 50/60-Hz electric and magnetic field exposure limits. At the 8th Congress of the IRPA in May 1992, the IRPA established a new independent scientific organization, the International Commission on Non-Ionizing Radiation Protection (ICNIRP) as a continuation of the former IRPA/INIRC. (ICNIRP reaffirmed the recommended interim exposure limits in 1992) In April 1998, ICNIRP published guidelines for limiting electromagnetic field exposures for frequencies up to 300 GHz, including 50/60 Hz. [3]

OVERVIEW

The following sections provide a brief overview on (i) what is known and what is unclear about the biological effects of (ELF) fields and (ii) information on the established exposure guidelines, together with the rationale for their development.

(I) Effects

Research to date has included experimental investigations into the effects on biological systems both *in vivo* and *in vitro*, and epidemiological studies on worker groups and on the general public. Very early research focused primarily on the effects of electric field exposure. During the last 15 years the primary focus of research shifted to studying the effects of exposure to magnetic fields alone. Recently, interest has been renewed in electric fields alone and in conjunction with magnetic fields. [4] The primary research effort has been directed towards determining whether a cancer risk exists. Much of the recent **experimental** research has been aimed at identifying a possible mechanism for (ELF) to act as a cancer initiator, promoter and/or copromoter.

Epidemiology

The strongest source of positive evidence for associated adverse effects has come from epidemiological studies. Such studies have suggested a weak positive association between ELF exposure and leukaemia, brain cancers, breast cancer and lung cancer. Nearly all of these studies were retrospective. Close examination of the methodologies used in early studies show major weaknesses or flaws, such as; number of cases too low to look at cancer subtypes, lack of specificity of exposure, lack of reliability of exposure data, lack of statistical power and lack of control for confounders.

The majority of positive findings have very small risk magnitudes **by epidemiological standards** and are unable to rule out other confounding factors or environmental influences such as population mobility and other social/economic factors and traffic pollution. No dose response trends have been established. Recent studies are attempting to address some of these limitations. For example the cross Canada childhood leukemia study whose results were expected to be released in the fall of 1997, has a statistical power to detect a relative risk of 2. Similarly, the large UK study currently underway (Doll, Richard et al, completion date 1998?) has 1000 childhood leukemia cases. A US study (National Cancer Institute (NCI) and the Children's Cancer Group (CCG) has released results, reference [5], from their study involving 600 acute lymphocytic leukemia (ALL) cases. These studies are able to detect low relative risks with greater certainty. It is generally agreed that the limit of epidemiological power is close to being reached and that it is unlikely that Epidemiology alone will be able to offer convincing proof to resolve this issue. There is no reliable supporting data for an association between residential exposure and cancer risk in the general public.

Occupational exposure to electromagnetic fields and its association with cancers has received significant attention due to higher ELF exposures encountered in

occupational environments compared to residential. It has been alleged that selective publication of positive findings in the literature suggests a biasing towards an overall slight excess relative risk [6], [7]. The occupational studies are more advanced than the residential studies. Some associations found in some of the occupational studies as well as some non-associations have reached statistical significance. The very large scale studies on utility workers [8]-[10] produced contradictory results and no clear, convincing proof of a detrimental health effect associated with exposure to electric and magnetic fields.

Overall, while several studies have found correlation between (ELF) and disease occurrence, including cancer, there is little consistency from the data in human studies. Although there is no conclusive evidence from the epidemiological evidence that electric or magnetic fields cause a risk of cancer, in residential or occupational environments, the research holds out a possibility of a weak risk. For residential exposures there is little evidence to support the notion of a risk associated with magnetic field exposure in children or adults. Whereas, for occupational exposures the issue of leukemia and brain cancer in adults has not been resolved. [11]

Experimental Research

Experimental investigations with cellular systems, tissues and animals has shown that electric and magnetic fields can interact with these biological systems. Of the various kinds of biological effects related to ELF exposure "... no plausible biophysical mechanisms for the systematic initiation or promotion of cancer by these power line fields have been identified." [12]

Cellular chemistry effects involving the movement of calcium ions through cellular membranes have been confirmed by several researchers. The significance of this effect as it relates to possible adverse health outcomes is not understood. Replication of early work by a few researchers who have found that ELF fields can affect gene expression have not been replicated by other researchers. The ability of magnetic fields (MF) to suppress melatonin release by the pineal gland during the dark phase of the daily "light-dark" cycle is currently being studied in animals and humans. The ability of MF to affect melatonin levels in humans has not been conclusively established. Normal melatonin levels are individual dependant varying from person to person by a factor of 2 and are affected by light, nicotine and caffeine. The significance of this hormone as a possible precursors to adverse health outcomes is not yet understood.

Direct effects on significant cellular molecules, such as DNA, have not been observed. No direct mutagenic or carcinogenic effects on animals have been observed. In contrast to ionizing radiation, this tends to support the assertion that

ELF fields are not a direct cancer initiator but does not rule out the possibility of MF as a nonmutagenic carcinogen. Current research has shifted to focusing on the role of ELF (particularly magnetic fields) as a tumour promoter or copromoter. Studies have looked at mice treated with chemical tumour initiators and a promoter and exposed to high magnetic fields (approx. 2 mT or 20 G). The study showed that MF did not increase either the number of mice with tumours or the number of tumours. No effects were observed on mice exposed without the chemical promoter. The large variation in the rate of tumour formation among individual mice, especially during the early stages, makes it difficult to determine if MF's have the potential to accelerate the growth and development of tumours.

Non-mammalian studies, generally on chickens and pigeons, have shown no significant effects on fertility, morphology, behaviour or growth. Mammalian studies concerned with prenatal exposure affecting postnatal growth and survival have been few and have shown mixed results. The lack of replication of these studies remains a major factor concerning the strength of the findings, positive or negative.

Summary on Effects

Recently the Bioelectromagnetics Society issued a statement regarding scientific research on biological effects of electric and magnetic fields. The statement reads "Some epidemiological studies have raised concern that risk of cancer may be enhanced by exposure to electric and magnetic fields associated with distribution and use of electric power. Strong criticism of these epidemiological studies has been due primarily to the variability of results as well as the incomplete nature of laboratory data to support the specific cancer findings. At present, there is no scientific consensus as to which physical factors, the electric field and/or the magnetic field, may be biologically important. Similarly, there is no clear indication whether higher field levels present greater risk than lower fields. Whether adverse effects are (1) real and significant, (2) real but of minor importance, or (3) non-existent, must be determined by current and future research to allay public fears and to provide industry a basis for appropriate response or action." [13]

The overall view obtained from the research literature indicates that while some biological effects of exposure to ELF electric and magnetic fields occur, there are no resulting adverse health effects from these exposures. The observed biological effects have not been shown to be significant in terms of a health hazard. Therefore this lack of cause/effect evidence for disease induction for the exposure levels of concern to workers and the general public prevents the derivation of guidelines for protection against any chronic or long-term effects at typical low levels that most people are exposed to.

(ii) Exposure Guidelines

During the second half of the twentieth century, there has been concerted effort to establish and refine the radiation exposure standards and guidelines for ionizing radiation. Emphasis on the non-ionizing portion of the electromagnetic spectrum over the past twenty years has resulted in exposure limit values for the optical region of the spectrum, as well as the radiofrequency and ELF regions.

The earliest exposure guideline for the (ELF) part of the spectrum was established by the USSR in 1975 (see Table 1). This established an occupational limit for electric field exposure. The last decade has seen increased activity in the development of guidelines covering both electric and magnetic fields for exposure to workers and the general public. The International Radiation Protection Association (IRPA) published exposure limits addressing very high level exposure to 50/60 Hz electric and magnetic fields in 1990. In April 1998, the International Commission on Non-Ionizing Radiation Protection (ICNIRP) published comparable exposure limits (Table 1) [3]. Similar high exposure limits have also been established for workers by the American Conference of Governmental Industrial Hygienists (ACGIH). The exposure limits resulted from a review of the scientific literature that determined the only established mechanism for health hazard occurrence from (ELF) exposure was through the induction of significant electric currents inside the body. The basis for the limits is simply the prevention of current densities in the body, exceeding 10 mA/m². This limit corresponds to induced current densities that are generally at or slightly above those normally occurring in the body (up to about 10 mA/m²). The research literature has shown the following effects for the various current densities specified:

- 1) between 1 and 10 mA/m², minor biological responses reported.
- 2) between 10 and 100 mA/m², visual and nervous system effects occur.
- 3) between 100 and 1000 mA/m², stimulation of excitable tissue is observed leading to possible adverse reactions.
- 4) above 1000 mA/m², extra systoles and ventricular fibrillation can occur (acute health hazards).

These exposure limits have not been based upon a consideration of cancer risk, since such a risk has not been established. The situation for chronic exposure to the very low levels (0.2 - 0.5 μ T or 2.0 - 5.0 mG) of ELF magnetic and electric fields that most people are exposed to, that is, levels below those known to cause acute detrimental effects remains speculative and unresolved. Until there is a consistent significant link between cancer and ELF fields or some other parameter associated with power lines, a magnetic field exposure limit or guideline chosen well below the

above limits can not be established based upon the available data to protect against suspected health hazards associated with chronic, long term exposure.

General Conclusions

Research into the effects of (ELF) electric and magnetic fields have shown that some interactions between biological systems and the fields result in certain responses. However, significant detrimental interactions at ambient fields to which human and animals are typically exposed remains to be demonstrated. The research taken overall indicates that the evidence is insufficient to conclude that electric or magnetic fields cause a risk of cancer. Therefore the established exposure limit values can be used to provide protection against the acute hazards that can result from high intensity exposure levels. The research does hold out the possibility of a risk, but it is expected that research efforts that are currently underway will likely address this concern. These together with future research will determine whether there is need for lowering the limits to provide protection against the consequences of chronic low level exposure.

Position Statement

In light of the above information and the need for guidance in Canada by policy makers, health and safety professionals and the public, the Federal Provincial Territorial Radiation Protection Committee has issued a position statement (see page 14) to address these concerns.

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11. "Nature and nurture: Possibilities for cancer control." Carcinogenesis 1996: 17(2): 177-84
12. Statement by the Council of the American Physical Society, April 22, 1995, on Power Line Fields and Public Health.
13. EMF Health and Safety Digest, June 1996, p.11

Report prepared by a Working Group of the Federal Provincial Territorial Radiation Protection Committee.

Working Group Membership, (October 1, 1997):

Brian Phillips (Chair), British Columbia;
Maurice Bitran, Ontario;
Art Thansandote, Health Canada;
Randy Ross, British Columbia;

APPENDIX 1

Extract from a 1989 Report "Electric and Magnetic Fields and Your Health" (Reference 1)

Recommendations

1. The Working Group considers that additional research effort should be undertaken in Canada to resolve whether there is association between exposure to 60 Hz electric and magnetic fields and an increased risk of cancer. The Working Group recommends that:
 - a. the Department of National Health and Welfare intensify its participation in its ongoing research, and
 - b. an Advisory Committee be established to advise on the research. The Advisory Committee will be available to review research proposals, comment and make recommendations. It is suggested that this committee comprise representatives of all interested parties, i.e. industry, labour, academia and government. Additional technical experts will be asked to serve as consultants to the AC when required.
2. The Working Group considers that workers and the general public need to be informed on current understanding of health effects of electric and magnetic fields. The Working Group recommends that the Department of National Health and Welfare publish this report and the Working Group's document entitled "Electric and Magnetic Fields and Your Health".

Key Research Issues

The Working Group has selected the following directions of investigation as the most critical at the present time: cancer Epidemiology, exposure assessment and in vivo animal cancer studies. All three areas are considered equally important and were unanimously selected by all group members. There are now under way epidemiological studies and exposure assessment studies, both in Canada and abroad. However, there appear to be no comprehensive in vivo studies being carried out at present.

* Appendix E of that report is not included in this Appendix

Table 1 - 50/60 Hz Standards and Guidelines Limits for Continuous General Public and Occupational Exposure

Standard	Electric Field Strength (kV/m)		Magnetic Flux Density (mT)	
	Public	Occupational	Public	Occupational
ICNIRP (1998) (60Hz)	4.16	8.33	0.0833	0.4166
USA, ACGIH (1998) (60Hz)		25		1.0
CENELEC (1995) (60Hz)	8.333	25*	0.533	1.333
UK NRPB (1993) (60Hz)	10	10	1.333	1.333
Australia, NH&MRC (1989) (50Hz)	5.0	10.0	0.1	0.5
Germany (1989) (50Hz)	20.6	20.6	5.0	5.0
USSR (1975) (50Hz)	-	5.0	-	-
USSR (1985) (50Hz)	-	-	-	1.76
Poland (1980) (50Hz)	-	15.0	-	-

* with time restrictions

ACGIH - American Conference of Governmental Industrial Hygienists

CENELEC - Comité Européen de Normalisation Electrotechnique (European Committee for Electrotechnical Standardization)

ICNIRP - International Commission on Non-Ionizing Radiation Protection

NH&MRC - National Health & Medical Research Council

NRPB - National Radiological Protection Board

**POSITION STATEMENT* ON THE HEALTH EFFECTS OF
EXTREMELY LOW FREQUENCY (E.L.F.) ELECTRIC AND MAGNETIC FIELDS
ON THE GENERAL PUBLIC**

1. The production of electric and magnetic fields are associated with the generation, transmission and use of electricity. People are exposed to these fields not only when they are near high voltage lines, but also at their places of work and in their homes. Such fields are produced by distribution lines, transformers, building and house wiring and by all devices that use electric power.
2. Studies to investigate the health effects of these fields have been taking place around the world for more than twenty-five years. Such research has included laboratory studies concerning the effects on cells, tissues and animals, as well as studies on human exposure and Epidemiology.
3. Epidemiological studies suggest a weak association between increased risk of certain types of cancer, and exposure to magnetic and/or electric fields; however the findings are inconsistent and inconclusive. Experiments with animals and cells show that these fields can interact with biological systems and with cellular chemistry. These interactions, however, have not been shown to lead to adverse health effects. Extensive world-wide research programs are ongoing in order to clarify whether or not there are indeed health risks.
4. Research to date⁽¹⁾ has not identified any biophysical mechanisms that link the initiation or promotion of cancer by power frequency field properties.
5. Recommended exposure limits to prevent acute health effects have been put forward by an international committee of experts⁽²⁾. It is extremely unlikely that members of the Canadian public would be exposed above these exposure limits. In the case of chronic exposure at ambient levels, currently available information on health and bioeffects does not provide a basis for establishing more restrictive exposure limits.
6. The Federal Provincial Territorial Radiation Protection Committee will continue to monitor the results of new studies and re-assess this position as new information becomes available.

*Position Statement issued by the Federal Provincial Territorial Radiation Protection Committee.

⁽¹⁾Council of the American Physical Society - (95/04/22)

⁽²⁾ICNIRP Guidelines "Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (Up to 300 GHz)," Health Physics, Vol. 74, No. 4, pp. 494-522, April 1998. The Guidelines recommend a limit of 4.16 kV/m and 83.3 μ T (833 milligauss) for 24-hour exposure of the general public

GOVERNMENT CONTACTS

(please see next page)

Canadian Federal

Department/Agency

Health Canada
Radiation Protection Bureau
775 Brookfield Rd
Ottawa ON K1A 1C1

Prince Edward Island

Diagnostic Imaging
Queen Elizabeth Hospital
PO Box 6600
Charlottetown PEI C1A 8T5

Newfoundland

Department of Environment and Labour
West Block, 4th Floor, Confederation
Bldg
PO Box 8700
St. John Nfld A1B 4J6

New Brunswick

Department of Health and Community
Services
4th Floor, Carleton Place, King St.
PO box 5100
Fredericton NB E3B 5G8

Nova Scotia

Nova Scotia Department of Environment
PO Box 2107
Halifax NS B3J 3B7

Quebec

Programme de la radioprotection
Laboratoire de santé publique du
Québec
20045, chemin Sainte-Marie
Sainte-Anne-de-Bellevue PQ H9X 3R5

Ontario

Ontario Ministry of Health
X-ray Inspection Services
5700 Yonge St, 3rd Floor
North York ON M2M 4K5

Ontario

Radiation Protection Service
Ontario Ministry of Labour
Occupational Health and Safety Branch
400 University Ave, 8th Floor
Toronto ON M7A 1T7

Canadian Federal

Department/Agency

Atomic Energy Control Board
PO Box 1046, Stn B
Ottawa ON K1P 5S9

Manitoba

Department of Medical Physics
Manitoba Cancer Foundation
100 Olivia St.
Winnipeg MB R3E 0V9

Saskatchewan

Radiation Safety Unit
Department of Labour
Saskatchewan Place
1870 Albert St.
Regina SK S4P 3V7

Alberta

Legislation, Standards & Technical
Services
Alberta Labour
902-10808 99th Ave
Edmonton AB T5K 0G5

British Columbia

Radiation Protection Branch
BC Ministry of Health
210-4940 Canada Way
Burnaby BC V5G 4K6

Yukon

Workers' Compensation Health &
Safety
401 Strickland St.
Whitehorse YK Y1A 5N8

Northwest Territories

Department of Health and Social
Services
Government of the Northwest Territories
7th Floor, Centre Square Tower
PO Box 1320
Yellowknife NWT X1A 2L9



IT'S YOUR HEALTH



Electric and Magnetic Fields At Extremely Low Frequencies

The Issue

There are concerns that daily exposure to electric and magnetic fields (EMFs) may cause health problems. These concerns are reflected in a number of reports that have attempted to link EMF exposure to a variety of health issues, including childhood cancer.

Background

Electricity delivered through power lines plays a central role in modern society. It is used to light homes, prepare food, run computers and operate other household appliances, such as TVs and radios. In Canada, appliances that plug into a wall socket use electric power that flows back and forth at a power frequency of 60 cycles per second (60 hertz).

Every time you use electricity and electrical appliances, you are exposed to electric and magnetic fields (EMFs) at extremely low frequencies (ELF). The term "extremely low" is used to describe any frequency below 300 hertz. EMFs produced by the transmission and use of electricity belong to this category.

Electric and Magnetic Fields (EMFs)

Electric and magnetic fields are invisible forces that surround electrical equipment, power cords and wires that carry electricity, including outdoor power lines. You cannot see or feel EMFs.

Electric Fields: These are formed whenever a wire is plugged into an outlet, even when the appliance is not turned on. The higher the voltage, the stronger the electric field.

Magnetic Fields: These are formed when electric current is flowing within a device or wire. The greater the current, the stronger the magnetic field.

Electric and magnetic fields can occur separately or together. For example, when you plug the power cord for a lamp into a wall socket, it creates an electric field along the cord. When you turn the lamp on, the flow of current through the cord creates a magnetic field. Meanwhile, the electric field is still present.

The Strength of EMFs

Electric and magnetic fields are strongest when close to their source. As you move away from the source, the strength of the fields fades rapidly. This means you are

exposed to stronger electric and magnetic fields when standing close to a source (e.g., right beside a transformer box or under a high voltage power line), and you are exposed to weaker fields as you move away. When you are indoors at home, the magnetic fields from high voltage power lines and transformer boxes are weaker than those from household electrical appliances.

Canadian Exposures to EMFs at ELF

On a daily basis, most Canadians are exposed to EMFs generated by household wiring, fluorescent lighting, and any electrical appliance that plugs into the wall, including hair dryers, vacuum cleaners and toasters. In the workplace, common sources include video display terminals (computer monitors), air purifiers, photocopiers, fax machines, fluorescent lights, electric heaters and electric tools in machine shops, such as drills, power saws, lathes and welding machines.

Exposures in Canadian Homes, Schools and Offices Present No Known Health Risks

Research has shown that EMFs from electrical devices and power lines can cause weak electric currents to flow through the human body. However, these currents are much smaller than those produced naturally by your brain, nerves and heart, and are not associated with any known health risks.

There have been many studies about the effects of exposure to electric and magnetic fields at extremely low frequencies. Scientists at Health Canada are aware that some of these studies have suggested a possible link between exposure to ELF fields and

certain types of childhood cancer. The International Agency for Research on Cancer (IARC) has evaluated the scientific data and has classified ELF magnetic fields as being “possibly carcinogenic” to humans. IARC based this classification on the following:

- human health population studies showing weak evidence of an association with childhood leukemia; and
- a large database of laboratory study results showing inadequate evidence of an association with cancer in animals.

To put this into context, it is important to understand that the “possibly carcinogenic” classification is also applied to coffee, gasoline engine exhaust and pickled vegetables, and is often used for agents that require further study. In summary, when all of the studies are evaluated together, the evidence suggesting that EMFs may contribute to an increased risk of cancer is very weak.

Concerns about Electromagnetic Interference

In certain circumstances, EMFs can cause interference with electronic devices. For example, office workers may notice image movement (jitter) on their computer screens if the computer is in an area where magnetic fields are slightly elevated above background levels. Some sources that generate these slightly elevated levels are the cables that bring electrical power into an office area, and common electrical equipment, such as power transformers.

Magnetic fields that are capable of causing jitter on computer screens do not present any known risks to human health. To solve the jitter problem,

simply move the computer to another part of the room where the magnetic fields are weaker.

Minimizing Your Risk

You do not need to take action regarding daily exposures to electric and magnetic fields at extremely low frequencies. There is no conclusive evidence of any harm caused by exposures at levels found in Canadian homes and schools, including those located just outside the boundaries of power line corridors.

Health Canada’s Role

Health Canada, along with the World Health Organization, monitors scientific research on EMFs and human health as part of its mission to help Canadians maintain and improve their health. At present, there are no Canadian government guidelines for exposure to EMFs at ELF. Health Canada does not consider guidelines for the Canadian public necessary because the scientific evidence is not strong enough to conclude that exposures cause health problems for the public.

Some national and international organizations have published health-based exposure guidelines for EMFs at ELF. However, these guidelines are not based on a consideration of risks related to cancer. Rather, the point of the guidelines is to make sure that exposures to EMFs do not cause electric currents or fields in the body that are stronger than the ones produced naturally by the brain, nerves and heart. EMF exposures in Canadian homes, schools and offices are far below these guidelines.



IT'S YOUR HEALTH



Need More Info?

For further information contact:

The Consumer and Clinical Radiation Protection Bureau
Health Canada
775 Brookfield Road
Ottawa, ON K1A 1C1
Telephone: (613) 954-6699
Fax: (613) 952-7584
E-mail: CCRPB-PCRPPC@hc-sc.gc.ca
www.hc-sc.gc.ca/ahc-asc/branch-dirgen/hecs-dgsesc/psp-ppsp/ccrpb-bpcrpcc-eng.php

Also, see the following Fact Sheets on the World Health Organization (WHO) Web sections:

Electromagnetic Fields and Public Health: Exposure to Extremely Low Frequency Fields, at: www.who.int/mediacentre/factsheets/fs322/en/index.html

Electromagnetic Fields and Public Health: Extremely Low Frequency(ELF), at: www.who.int/docstore/peh-emf/publications/facts_press/efact/efs205.html

Electromagnetic Fields and Public Health: Extremely Low Frequency Fields and Cancer, at: www.who.int/docstore/peh-emf/publications/facts_press/efact/efs263.html

For more information visit the following Web sites:

The International Agency for Research on Cancer (IARC), Static and extremely low frequency (ELF) electric and magnetic fields. Report No. 80, at: www.iop.org/EJ/abstract/0952-4746/21/3/604

IARC Carcinogen Classifications, at: <http://monographs.iarc.fr/ENG/Classification/index.php>

The U.S. National Institute of Environmental Health Sciences (NIEHS), Questions and Answers about EMF at : www.niehs.nih.gov/health/topics/agents/emf/

It's Your Health, Safety of Exposure to Electric and Magnetic Fields from Computer Monitors and Other Video Display Terminals at : www.hc-sc.gc.ca/hl-vs/iyh-vsv/prod/monit-eng.php

For additional articles on health and safety issues go to the *It's Your Health* Web section at:

www.healthcanada.gc.ca/iyh
You can also call toll free at 1-866-225-0709 or TTY at 1-800-267-1245*

From: Wendy Beaupre [Wendy.Beaupre@dsb1.edu.on.ca]
Sent: Tuesday, August 07, 2012 12:18 PM
To: Male, Sean
Subject: RE: Proposed Empire Solar Project

I will be there at the meeting. My number is lot 1341 concession 7 Glackmeyer, genier. I have 122 acres that completely encircle the lake. I can meet next week if available after wednesday or see you at the meetings thanks for your prompt response. wendy

From: Male, Sean [mailto:SMale@Hatch.ca]
Sent: Mon 7/30/2012 8:35 AM
To: Wendy Beaupre
Subject: RE: Proposed Empire Solar Project

Dear Wendy,

Thank you very much for your letter.

We certainly appreciate your concerns with respect to the proposed Projects. Are you able to provide us with your lot and concession number so that we can see where you reside in relation to the Project? Can you also provide us with your mailing address so that you can receive Project notifications? You likely did not receive notification since you recently purchased the property and our list of adjacent landowners would have been obtained prior to that time. For your information, these proposed Projects have been a matter of public record since early 2011, and a public meeting was held in July of last year.

As part of the Renewable Energy Approval for the Project, we are required to assess natural heritage features both on and within 120 m of our proposed Project site. Significant natural features were identified and mitigation measures have been proposed within the Natural Heritage Environmental Impact Study. As Lauzon Lake is located more than 120 m from these Projects, it has not been assessed within these reports, however the distance between the Projects and Lauzon Lake, as well as the small environmental impacts of these Projects, will ensure that there is no impact on this feature, or its potential use by wildlife species.

With respect to public safety, the Project will be constructed and operated in accordance with provincial guidelines and regulations with respect to electrical equipment and noise.

As Rob Miller of Northland mentioned in his last e-mail, he would welcome the opportunity to meet with you to discuss your concerns further. If this is not possible, we would certainly welcome further e-mail correspondence, or you can call me directly to discuss your concerns. Alternately, we would welcome the opportunity to meet with you at the upcoming public meeting at the end of August.

Thank you,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Wendy Beaupre [mailto:Wendy.Beaupre@dsb1.edu.on.ca]

Sent: Thursday, July 19, 2012 9:58 AM

To: Male, Sean; Male, Sean

Subject: Proposed Empire Solar Project

Dear Sean,

I recently purchased the property adjacent to the lot 17, 18 concession 7 and the proposed lots on concession 8 and 9 also surround the back of my property. I am gravely concerned about how this project will affect my quality of life not to mention the fact this area and Lauson lake should be sanctioned as a sanctuary for birds. My sole purpose in acquiring this property was for the serenity, wildlife and views. The surrounding fields are a bird sanctuary for migrating birds. I have witnessed a number of rare bird sightings on Lauzon Lake such as many types of cranes, herons, ducks, red wing black birds, cranes, and mud hens. I do not want any power line construction near my property as it is adjacent to your proposed development sight. I have not been contacted in person about this project. I have no idea what studies have been done concerning the safety aspects of your proposed solar project. The proposed solar project may directly impede my western views. I would appreciate being notified through email about whom I can contact with my concerns.

property owner 1341 concession 7 Cochrane Ontario, Wendy Beaupre

This e-mail contains information intended only for the individual or entity named in the message. If the reader of this message is not the intended recipient, or the agent responsible to deliver it to the intended recipient, you are hereby notified that any review, dissemination, distribution or copying of this communication is prohibited. If this communication was received in error, please notify us by reply e-mail and delete the original message.

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This e-mail contains information intended only for the individual or entity named in the message. If the reader of this message is not the intended recipient, or the agent responsible to deliver it to the intended recipient, you are hereby notified that any review, dissemination, distribution or

copying of this communication is prohibited. If this communication was received in error, please notify us by reply e-mail and delete the original message.

From: Male, Sean
Sent: Wednesday, October 10, 2012 12:53 PM
To: 'Natalie Gagnon'
Cc: 'Rob Miller'
Subject: RE: Northland Power Projects in Cochrane, ON
Attachments: Abitibi SP-02 (Construction Plan)_Aug 16, 2012 Rev.P0.pdf; Martins Meadows SP-02 (Construction Plan)_Aug 16, 2012 Rev.P0.pdf

Hi Natalie,

Thank you again for your correspondence. Please find responses to your concerns below.

1. The road condition (it's already a bumpy ride to our place)
RESPONSE: Northland will assess the roadways prior to construction and will ensure that roadways are left in the same or better condition following the completion of construction. The Town of Cochrane Road Superintendent will also be consulted and the road condition prior to construction will be documented as a pre-existing baseline. After construction is complete the Road Superintendent will be consulted to sign off or approve that the road condition is acceptable.
2. The value of our property
RESPONSE: As property values are determined as a result of several factors beyond Northland's control, Northland cannot speculate on any potential impact on property values. There is no known literature indicating a reduction in property values near a solar Project. Further, as shown in the attached layouts of the Abitibi and Martin's Meadows Solar Projects, it is anticipated that the Project components will be more than 300 m from the roadway in front of your property. In addition, Northland has completed detailed acoustic modeling of the proposed Project, and all requirements of the Ministry of the Environment will be met.
3. The sights (big solar panels is what we will see) and sounds (when panels lift, descend, rotate)
RESPONSE: As noted above, the Project will be located more than 300 m from the roadway in front of your property, and acoustic modeling of the proposed Project has shown that all MOE requirements will be met for your property. Further, the panels will sit on racking that is permanently fixed and tilted. Northland is not putting in a single or dual axis tracking system, therefore, there will be no sound or visual distraction associated with moving panels.
4. Possible health effects (from the electromagnetic radiation)
RESPONSE: There are no known potential health effects from solar projects. As noted above, the Project is located more than 300 m from your property, and any potential electromagnetic radiation from the Project would be less than that found in your own home. For your consideration, additional information on electromagnetic radiation can be found at <http://www.hydroone.com/OurCommitment/Environment/Pages/ElectricandMagenticFields.aspx>

For your information, additional information on the Projects is available on the Project websites at:

Martins Meadows	http://www.northlandpower.ca/martinsmeadows
Abitibi	http://www.northlandpower.ca/abitibi
Empire	http://www.northlandpower.ca/empire

If you have any further questions, please do not hesitate to contact me.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Natalie Gagnon [mailto:natgagnon@puc.net]
Sent: Tuesday, October 09, 2012 10:04 AM
To: Male, Sean
Subject: Re: Northland Power Projects in Cochrane, ON

Hello Sean,

My husband and I have looked at the map that we were provided in the mail. It's hard to tell exactly if this project will be right in front of our home. Our lot number is 1479.

Thank you for your response!

Natalie

From: [Male, Sean](#)
Sent: Friday, October 05, 2012 3:38 PM
To: [Natalie Gagnon](#)
Subject: RE: Northland Power Projects in Cochrane, ON

Hi Natalie,

Thanks for getting in touch with us. Can you provide us with your Lot and Concession number so that we can provide accurate information relative to your location?

The Project is actually being developed by Northland Power. Hatch Ltd is providing environmental consultant services.

We will review your questions shortly and provide you with a response next week.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Natalie Gagnon [<mailto:natgagnon@puc.net>]
Sent: Friday, October 05, 2012 10:58 AM
To: Male, Sean
Subject: Northland Power Projects in Cochrane, ON

Hello Mr. Male,

In 2010, my husband and I purchased our house (and 78 acres of land) on Conc 8 & 9 Glackmeyer. We have found out that you (Hatch Ltd.) will be building solar projects pretty much in front of our house. This really concerns us for numerous reasons:

1. The road condition (it's already a bumpy ride to our place)
2. The value of our property
3. The sights (big solar panels is what we will see) and sounds (when panels lift, descend, rotate)
4. Possible health effects (from the electromagnetic radiation)

What can you respond to my concerns?

Natalie Gagnon

Owner & Administrative Associate

Freedom 55 Financial

94 6th Avenue Box 1300

Cochrane, ON P0L 1C0

Phone: 1-705-272-5816

Fax: 1-705-272-5724

The contents of this communication, including any attachment(s), are confidential and may be privileged. If you are not the intended recipient (or are not receiving this communication on behalf of the intended recipient), please notify the sender immediately and delete or destroy this communication without reading it, and without making, forwarding, or retaining any copy or record of it or its contents. Thank you. Note: We have taken precautions against viruses, but take no responsibility for loss or damage caused by any virus present.

NOTICE - This message from Hatch is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and destroy and delete the message from your computer.

Gibson, Melissa

From: eh8393@gmail.com
Sent: Tuesday, August 28, 2012 10:34 AM
To: martinsmeadows@northlandpower.ca
Subject: Request for more information

Follow Up Flag: Follow up
Flag Status: Flagged

Name : Elizabeth Hardin

Street Address : Lot 16, Poplar Ridge Road, Lower Deception Lake R.R.#4

City : Hunta, Ontario

Postal Code : P0L 1P0

Phone Number : 705-272-6531

Email Address : eh8393@gmail.com

Your questions or comments: Comment regarding item 2, NPI Solar Martin's Meadows, Community Information site: The revised project, i.e., building a power line from Martin's Meadows to Hunta, is not "located close to main power distribution system lines". A line from there to Cochrane, yes. A line from there to Hunta, no. Question regarding item 12 and environmental studies: are there Natural Heritage Assessment and Water Body reports that target the revised power line direction from Martin's Meadows (and the other two nearby sites) to Hunta, in particular where the proposed line would go around Lower Deception Lake? If so, I am not aware of their having been made available to residents and cottagers of this area within your stated time frame of 60 days. Thank you for your reply. Liz Hardin

**Hunta Area Landowners Association
Tom Bailor, President
R.R.4,
Hunta ON P0L 1P0**

Rob Miller, M.Sc., P.Eng.,
Manager, Solar Development,
Northland Power Inc.,
30 St. Claire Avenue West, 12th Floor,
Toronto ON
M4V 3A1

28 January 2013

Dear Mr. Miller,

The Hunta Area Landowners Association respectfully request from you an up-to-date account of your transmission line project as it affects landowners on Lower Deception Lake and along Concession Road 8&9 in Clute Township, Ontario. This request arises from a motion made and carried at our Association meeting on January 26, 2013, as we wish to express our continued objection to the proposed route of transmission lines though the lake area and along the Concession 8&9 road.

Furthermore, if the scope of your project has broadened in ways that affect the landowners in our Association, we would also request further public information meetings, in order to keep local residents fully aware of the impact of proposed transmission lines.

We look forward to your response to these requests.

Yours truly,

Tom Bailor, President

705-272-3460
717-964-2195

Cc: Mr. John Brace, CEO, Northland Power, Inc.

January 31, 2013

Tom Bailor
President
Hunta Area Landowners Association
R.R.4
Hunta, ON
P0L 1P0

Dear Mr.Bailor:

Subject: Reply to Correspondence of January 28, 2013

Thank you for your correspondence of January 28, 2013. Northland Power notes your continued objection to the proposed route of transmission lines through the south end of Lower Deception Lake and along Concession Road 8 and 9.

There has been no change to the scope of the Project from that presented at the public meeting for the Project in October of 2012. Since that time, Northland Power submitted individual applications for Renewable Energy Approvals to the Ontario Ministry of the Environment (MOE) on October 29, 2012 (for the Abitibi Solar Project) and October 31, 2012 (for the Empire Solar Project and Martin's Meadows Solar Project).

In early January, Northland Power and Hatch met with a representative of the MOE to discuss the proposed applications. As the three eastern Projects (Abitibi, Martin's Meadows, and Empire) connect to the electricity grid through a single transmission line, through consultation with the MOE, it was determined that the current applications for Renewable Energy Approvals should be withdrawn, and a single, combined application should be submitted to the MOE. This combined 30-MW Project will be known as the Cochrane Solar Project. There are no changes to the Project components, including the transmission line, proposed as a result of this change. Northland Power and Hatch are currently preparing a revised application, and we anticipate this being submitted to the MOE next week. Through consultation with the MOE, it was determined that further public meetings were not required at this time, but that Northland would prepare a notice advising of the integration of the three eastern Projects and availability of revised Project documentation. This notice would be published in the local newspaper and distributed to all individuals on the stakeholder mailing list. It is anticipated that this notice will be issued in the near future.

Once the application is re-submitted to the MOE, the application will be reviewed for completeness (for which the MOE service target is 40 business days, but which can take upwards of 2 months). Once deemed complete, a notice will be posted in the newspaper and a 30-day public comment period is initiated on the Environmental Registry. After the application is deemed complete, it will be reviewed for technical and regulatory compliance with Ontario Regulation 359/09, and a decision will be made within



Safety • Quality • Sustainability • Innovation

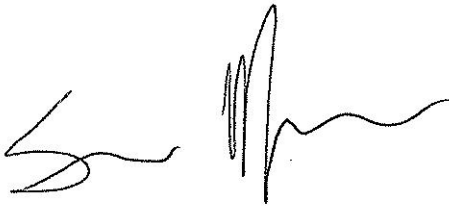
H334844-0000-07-218-0192, Rev. A

the MOE service guarantee of 6 months. It is Northland Power's hope to receive REA approval by the summer of this year.

If possible, Northland Power would like to request the meeting minutes from your most recent meeting, so that we can better understand your organization's specific concerns. Also, we would like to request that, assuming their permission is provided, the names and contact information for those that are part of your organization be provided so that we can ensure that they are on our mailing list and will receive a direct copy of the upcoming notification.

Thank you again for your comments.

Sincerely,



Sean K. Male
Environmental Coordinator

cc: Rob Miller, Northland Power

Appendix G

Correspondence with Agencies

Appendix G1

Ministry of the Environment

November 10, 2010

Ms. Doris Dumais
Director, Approvals Program
Ministry of the Environment
Environmental Assessment and Approvals Branch
12A Floor, 2 St. Clair Avenue West
Toronto, Ontario
M4V 1L5

Dear Ms. Dumais:

Subject: Draft Project Description Reports - Northland Power Inc.

On behalf of Northland Power Inc., please find attached Draft Project Description Reports for four proposed solar projects. Each Draft Project Description Report has been prepared in accordance with Sections 13 and 14(1)(a) of Ontario Regulation 359/09 and the Ministry of the Environment's draft Guidance for Preparing the Project Description Report.

As per Section 14(1)(b) of Ontario Regulation 359/09, at this time we request that you provide the list of Aboriginal communities that we will consult with on each project.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-0701 (Ext. 5280) or smale@hatch.ca.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean Male'.

Sean Male, M.Sc
REA Coordinator

SKM:mg

cc: Mike Lord, Northland Power
Tom Hockins, Northland Power

June 1, 2011

Denis Durocher, Timmins District Manager, Ministry of Environment
5520 Hwy 101 East, PO Bag 3080
Ontario Government Complex, South Porcupine P0N 1H0

Subject: Notice of a Proposal and Notice of Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects and we would like to invite you to the upcoming Public Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 2, 2011 and Thursday June 9, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 1, 2011

Doris Dumais, Director,
Ministry of the Environment,
Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
Toronto, On M4V 1L5

Subject: Notice of a Proposal and Notice of Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

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Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 27, 2011

Denis Durocher, Timmins District Manager, Ministry of Environment
5520 Hwy 101 East, PO Bag 3080
Ontario Government Complex, South Porcupine P0N 1H0

Subject: Notice of Change of Date for Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As previously notified in a letter dated, June 1, 2011, Northland Power is undertaking a public consultation program in support of the Projects. Due to a change in Project location, the previously notified date of Tuesday July 5, 2011 for the Public Meeting is changed to Wednesday July 27, 2011. We apologize for any inconvenience. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 23, 2011 and Thursday June 30, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 27, 2011

Doris Dumais, Director, Ministry of the Environment, Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
Toronto, On M4V 1L5

Subject: Notice of Change of Date for Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As previously notified in a letter dated, June 1, 2011, Northland Power is undertaking a public consultation program in support of the Projects. Due to a change in Project location, the previously notified date of Tuesday July 5, 2011 for the Public Meeting is changed to Wednesday July 27, 2011. We apologize for any inconvenience. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 23, 2011 and Thursday June 30, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

May 24, 2012

Doris Dumais, Director, Ministry of the Environment,
Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
Toronto, ON M4V 1L5

**Subject: Notice of Public Meeting and Renewable Energy Approvals Documents -
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects and has planned a public meeting on Tuesday, August 21, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday, May 24, 2012 and Thursday, July 26, 2012. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power. Please note a change has occurred in the proposed transmission line route and the attached map outlines both the previous proposed transmission line route, as shown at the last public meeting, and the revised proposed transmission line route.

In accordance with Section 16 (3) of Ontario Reg. 359/09, draft supporting documents, including the Project Description Report, Executive Summary, Design and Operations Report, Construction Plan Report, Decommissioning Plan Report, Noise Assessment Report, Stage 1 and 2 Archaeological Assessment Report, Natural Heritage Assessment Reports and Water Body Assessment Reports, are to follow and will be made available by Thursday, June 21, 2012 at (i) the Town of Cochrane Municipal Office and at (ii) the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing) or (iii) on-line at northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.



May 24, 2012

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Attachment(s)/Enclosure

Notice of Public Meeting – Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project
Comparison Map of Transmission Line Route

cc: Tom Hockin, Northland Power
Carol-Ann Fletcher, Northland Power

May 24, 2012

Denis Durocher, Timmins District Manager
Ministry of Environment
5520 Hwy 101 East, PO Box 3080
Ontario Government Complex
South Porcupine P0N 1H0

**Subject: Notice of Public Meeting and Renewable Energy Approvals Documents -
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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May 24, 2012

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Attachment(s)/Enclosure

Notice of Public Meeting – Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project
Comparison Map of Transmission Line Route

cc: Tom Hockin, Northland Power
Carol-Ann Fletcher, Northland Power

September 18, 2012

Denis Durocher, Timmins District Manager
Ministry of Environment
5520 Hwy 101 East, PO Box 3080
Ontario Government Complex, South Porcupine P0N 1H0

Dear Mr. Durocher:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

Northland Power is continuing a public consultation program in support of the Projects and has planned a public meeting on Thursday October 4, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday September 20, 2012, and Thursday September 27, 2012. The Public Meeting is being held to provide further information on the proposed 115 kV transmission line associated with the Projects.

As you may be aware, copies of the draft supporting documents were made available on June 21, 2012, at:

- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



Safety • Quality • Sustainability • Innovation

H334844-0000-90-218-0160, Rev. 0

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake



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September 18, 2012

Doris Dumais, Director
Ministry of the Environment
Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
Toronto, ON M4V 1L5

Dear Ms. Dumais:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

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- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



Safety • Quality • Sustainability • Innovation

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake

February 15, 2013

Denis Durocher, Timmins District Manager
Ministry of Environment
5520 Hwy 101 East, PO Box 3080
Ontario Government Complex
South Porcupine, ON P0N 1H0

Dear Mr. Durocher:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

The Cochrane Solar Project will be located on the same properties as the Abitibi, Empire and Martin's Meadows Solar Projects and will have a nominal capacity of 30 MW (AC). This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09.

Please note that there are no changes to the Project location required as a result of this change.

Revised Renewable Energy Approval supporting documents for the Cochrane Solar Project will be available online at <http://cochrane.northlandpower.ca>. The former Project websites (abibi.northlandpower.ca, empire.northlandpower.ca and martinsmeadows.northlandpower.ca) have been redirected to this website.



February 15, 2013

We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,

A handwritten signature in black ink, appearing to read "Sean K. Male".

Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power

February 15, 2013

Agatha Garcia Wright
Director, Ministry of the Environment
Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
Toronto, ON M4V 1L5

Dear Ms. Garcia Wright:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

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Please direct any correspondence(s) to:

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4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power

Appendix G2

Ministry of Natural Resources

From: Male, Sean
Sent: Sunday, March 18, 2012 9:51 PM
To: 'Telford, Jennifer (MNR)'
Cc: 'Tom Hockin'; Carol-Ann Fletcher; 334844
Subject: Natural Heritage Reports for Abitibi, Martin's Meadows and Empire Solar Projects

Hi Jennifer,

I have uploaded the Natural Heritage Reports for Northland Power's Abitibi, Martin's Meadows and Empire Solar Projects onto our ftp site for your review.

Login information is provided below:

<ftp.hatch.ca>

login: 334844

password: Crew87PoW!

I will give you a call tomorrow to touch base around these. At that time, if you could give me an update on Long Lake that would be great.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

From: Telford, Jennifer (MNR) [jennifer.telford@ontario.ca]
Sent: Friday, May 04, 2012 1:22 PM
To: Male, Sean
Cc: Clement, Denis (MNR)
Subject: MNR comments on Northland NHA's
Attachments: NHA Northland Comments.doc

Hi Sean,

I've attached a word document with comments for Abitibi, Empire and Martin's Meadows. I was going to fill out the NHA Review Checklist as we did with Long Lake but that was going to be very time consuming. The elements in the checklist were mostly met so here are the comments I have for the three sites. There aren't many so hopefully it will not take long to update the documents.

Have a good weekend,

Jennifer Telford

District Planner

Ministry of Natural Resources, Cochrane District

Phone (705) 272-7130

Fax (705)272-7183

jennifer.telford@ontario.ca

Ministry of Natural Resources
Cochrane District

2-4 Highway 11 South
P.O. Box 730
Cochrane ON P0L 1C0

Telephone: 705-272-7137
Facsimile: 705-272-7183
Toll Free: 1-800-667-1940

Ministère des Richesses naturelles
District de Cochrane

2-4 route 11 sud
C.P. 730
Cochrane ON P0L 1C0

Téléphone : 705-272-7137
Télécopieur : 705-272-7183
Sans frais : 1-800-667-1940



May 25, 2012

Mike Lord
General Manager, Solar Development
Northland Power Inc.
30 St. Clair Avenue West
17th Floor
Toronto, Ontario, Canada
M4V 3A1

Dear Mr. Lord:

RE: NHA Confirmation for Abitibi Solar Project

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the natural heritage assessment and environmental impact study for Abitibi Solar Project in Cochrane submitted by Northland Power Solar Abitibi L.P. on March 19, 2012.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNR provides the following confirmations following review of the natural heritage assessment:

1. The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
2. The MNR confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNR, if no natural features were identified.
3. The MNR confirms that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNR.
4. The MNR confirms that the project location is not in a provincial park or conservation reserve.
5. The MNR confirms that the environmental impact study report has been prepared in accordance with procedures established by the MNR.

This confirmation letter is valid for the project as proposed in the natural heritage assessment and environmental impact study, including those sections describing the Environmental Effects Monitoring Plan and Construction Plan Report. Should any changes be made to the proposed project that would alter the NHA, MNR may need to undertake additional review of the NHA.

Where specific commitments have been made by the applicant in the NHA with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNR expects that these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with S.12 (1) of the Renewable Energy Approvals Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

Please be aware that your project may be subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements Document*. These approvals are required prior to the construction of your renewable energy facility.

If you wish to discuss any part of this confirmation or additional comments provided, please contact Jennifer Telford at 705-272-7130.

Yours sincerely,



Martha Heidenheim
A/District Manager
Cochrane District - OMNR

cc. Christine Greenaway, A/Renewable Energy Coordinator, Northeast Region, MNR
Narren Santos, Environmental Assessment and Approvals Branch, MOE
Sandra Guido, Senior Program Support Coordinator, MOE

Ministry of Natural Resources
Cochrane District

2-4 Highway 11 South
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May 25, 2012

Mike Lord
General Manager, Solar Development
Northland Power Inc.
30 St. Clair Avenue West
17th Floor
Toronto, Ontario, Canada
M4V 3A1

Dear Mr. Lord:

RE: NHA Confirmation for Empire Solar Project

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the natural heritage assessment and environmental impact study for Empire Solar Project in Cochrane submitted by Northland Power Solar Empire L.P. on March 19, 2012.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNR provides the following confirmations following review of the natural heritage assessment:

1. The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
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3. The MNR confirms that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNR.
4. The MNR confirms that the project location is not in a provincial park or conservation reserve.
5. The MNR confirms that the environmental impact study report has been prepared in accordance with procedures established by the MNR.

This confirmation letter is valid for the project as proposed in the natural heritage assessment and environmental impact study, including those sections describing the Environmental Effects Monitoring Plan and Construction Plan Report. Should any changes be made to the proposed project that would alter the NHA, MNR may need to undertake additional review of the NHA.

Where specific commitments have been made by the applicant in the NHA with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNR expects that these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with S.12 (1) of the Renewable Energy Approvals Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

Please be aware that your project may be subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements Document*. These approvals are required prior to the construction of your renewable energy facility.

If you wish to discuss any part of this confirmation or additional comments provided, please contact Jennifer Telford at 705-272-7130.

Yours sincerely,



Martha Heidenheim
A/District Manager
Cochrane District - OMNR

cc. Christine Greenaway, A/Renewable Energy Coordinator, Northeast Region, MNR
Narren Santos, Environmental Assessment and Approvals Branch, MOE
Sandra Guido, Senior Program Support Coordinator, MOE

Ministry of Natural Resources
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May 25, 2012

Mike Lord
General Manager, Solar Development
Northland Power Inc.
30 St. Clair Avenue West
17th Floor
Toronto, Ontario, Canada
M4V 3A1

Dear Mr. Lord:

RE: NHA Confirmation for Martin's Meadows Solar Project

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the natural heritage assessment and environmental impact study for Martin's Meadows Solar Project in Cochrane submitted by Northland Power Solar Martin's Meadows L.P. on March 19, 2012.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNR provides the following confirmations following review of the natural heritage assessment:

1. The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
2. The MNR confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNR, if no natural features were identified.
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If you wish to discuss any part of this confirmation or additional comments provided, please contact Jennifer Telford at 705-272-7130.

Yours sincerely,



Martha Heidenheim
A/District Manager
Cochrane District - OMNR

cc. Christine Greenaway, A/Renewable Energy Coordinator, Northeast Region, MNR
Narren Santos, Environmental Assessment and Approvals Branch, MOE
Sandra Guido, Senior Program Support Coordinator, MOE

McRae, Elizabeth

From: Male, Sean
Sent: Friday, February 08, 2013 10:22 AM
To: 'Telford, Jennifer (MNR)'
Subject: RE: Northland - Cochrane Area Solar Projects

Hi Jennifer,

I just wanted to let you know that this we are in the midst of proceeding with this change at present. If MOE requires something formal from you, I will let you know.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Telford, Jennifer (MNR) [<mailto:jennifer.telford@ontario.ca>]
Sent: Friday, January 18, 2013 9:15 AM
To: Male, Sean
Subject: RE: Northland - Cochrane Area Solar Projects

Hi Sean,

I've heard from Jim and we have no problem with this approach. The work has already been completed so if it's all together as one doesn't seem like an issue. He didn't say in his e-mail if you would be requiring acknowledgement from us so I think not. However, if MOE at some point does require something from MNR just let me know and I'll draft something up.

Thanks,

Jenn

Jennifer Telford District Planner

Ministry of Natural Resources, Cochrane District
Phone (705) 272-7130
Fax (705)272-7183
jennifer.telford@ontario.ca

From: Male, Sean [<mailto:SMale@Hatch.ca>]
Sent: January 17, 2013 4:06 PM
To: Beal, Jim (MNR); Telford, Jennifer (MNR)
Cc: Cameron, Amy (MNR); 334844; Rob Miller
Subject: Northland - Cochrane Area Solar Projects
Importance: High

Hi Jim and Jennifer,

We are currently in the completeness review at MOE for the Abitibi, Empire and Martin's Meadows Solar Projects northeast of Cochrane, ON. MOE has indicated to us a preference for us to revise our applications from 3 separate projects to a single project that would received a single REA. Technically, nothing is changing with respect to what we are proposing to do, so there would be no revisions to the NHA reports and should this change be made, we would just provide a covering letter to the reader that indicates how the three 'sub-projects' interact as a single project and in which reports the relevant information could be found.

Can you confirm (1) whether this would be an acceptable approach to MNR and (2) whether MNR would need to provide some form of acknowledgement to this change?

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

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Appendix G3

Ministry of Tourism and Culture

Ministry of Tourism and Culture

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON P7E 6S7
Tel.: 807 475-1638
Fax: 807 475-1297

Ministère du Tourisme et de la Culture

Unité des programmes culturels
Direction des programmes et des services
Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1638
Télééc.: 807 475-1297



December 9, 2010

Tom Hockin
Northland Power
30 St. Clair Avenue West
17th Floor
Toronto, ON
M4V 3A1
Tom.Hockin@Northlandpower.ca

RE: Abitibi Solar Project

Location: Part Lots 14 & 15, Concession 8, Geographic Township of Glackmeyer, District of Cochrane

FIT #: FAQLBA0

MTC File #: HD00547

PIF: P007-279-2010

Dear Mr Hockin,

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report.*

The report recommends the following:

- Over the course of the Stage 2 archaeological assessment, no materials with significant cultural heritage value or interest were recovered. Accordingly, **Archaeological Research Associates Ltd.** feels that no further archaeological study of the area would be productive. It is recommended that the project be released from further heritage concerns. A **Letter of Concurrence** with these recommendations is requested.
- This report is filed with the Minister of Tourism and Culture as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 0.18 The report will be reviewed to ensure that the licensed consultant archaeologist has met the terms and conditions of their archaeological licence, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*. This condition provides for the potential for deeply buried or enigmatic local site areas not typically identified in evaluations of potential.
- The Cemeteries Act requires that any person discovering human remains must immediately notify the police or coroner and the Registrar of Cemeteries, Ministry of Small Business and Consumer Services. All work in the vicinity of the discovery will be suspended immediately. Other government staff may be contacted as appropriate; however, media contact should not be made in regard to the discovery.
- Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the *Ontario Heritage Act*, and may not be altered, or have artifacts removed, except by a person holding an archaeological licence.

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the *Ontario Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences. Please feel free to contact me if you have questions or require additional information.

Sincerely,

A handwritten signature in black ink that reads "Paige Campbell". The signature is written in a cursive, flowing style.

Paige Campbell
Archaeology Review Officer
paige.campbell@ontario.ca

cc. Paul Racher, Archaeological Research Associates Ltd.
Kimberley Arnold, Hatch Ltd.
Shari Prowse, ARO/GEA Coordinator, Ministry of Tourism and Culture

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Ministry of Tourism,
Culture and Sport

Ministère du Tourisme,
de la Culture et du Sport



Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON, P7E 6S7
Telephone: 807-475-1632
Facsimile: 807-475-1291

Unité des programmes culturels
Direction des programmes et des services
Division de culture
435 rue James sud, Bureau 334
Thunder Bay, ON, P7E 6S7
Téléphone: 807-475-1632
Télécopieur: 807-4751291

Email: andrew.hinshelwood@Ontario .ca

September 06, 2012

Northland Power Inc.
30 St. Clair Ave., West, 12th Floor
Toronto ON M4V 3A1

Attn.: Rob Miller

RE: Northland Power Empire Solar Project

Part of Lots 17 and 18, Concession 7, Township of Glackmeyer, District of Cochrane.

MTC File	HD000546
MTC PIF	P052-393-2012

Dear Proponent:

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report(s) you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines or the 2011 Standards and Guidelines for Consultant Archaeologists (whichever apply). Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report(s).*

The Archaeological Assessment Report Entitled, *Stage 1 and 2 Archaeological Assessment for Northland Power - Empire Solar Project, Part of Lots 17 and 18, Concession 7, Township of*

Glackmeyer, District of Cochrane, dated August 8, 2012, received by MTC Toronto Office on August 15, 2012, recommends the following:

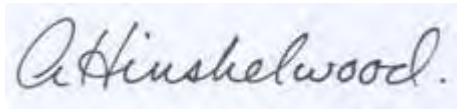
- The Stage 2 survey did not identify any archaeological sites requiring further assessment or mitigation of impacts and it is recommended that no further archaeological assessment of the property be required.

This letter does not waive any requirements which you may have under the Ontario *Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "A. Hinshelwood." The signature is written in dark ink on a light-colored background.

Andrew Hinshelwood
Archaeology Review Officer

cc. Rob.Miller@Northlandpower.ca

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Ministry of Tourism and Culture

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON P7E 6S7
Tel.: 807 475-1638
Fax: 807 475-1297

Ministère du Tourisme et de la Culture

Unité des programmes culturels
Direction des programmes et des services
Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1638
Télééc.: 807 475-1297



December 9, 2010

Tom Hockin
Northland Power
30 St. Clair Avenue West
17th Floor
Toronto, ON
M4V 3A1
Tom.Hockin@Northlandpower.ca

RE: Empire Solar Project

Location: Part Lots 17 & 18, Concession 8, Geographic Township of Glackmeyer, District of Cochrane

FIT #: FQJ0FUC

MTC File #: HD00546

PIF: P007-282-2010

Dear Mr Hockin,

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report.*

The report recommends the following:

- Over the course of the Stage 2 archaeological assessment, no materials with significant cultural heritage value or interest were recovered. Accordingly, **Archaeological Research Associates Ltd.** feels that no further archaeological study of the area would be productive. It is recommended that the project be released from further heritage concerns. A **Letter of Concurrence** with these recommendations is requested.
- This report is filed with the Minister of Tourism and Culture as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 0.18 The report will be reviewed to ensure that the licensed consultant archaeologist has met the terms and conditions of their archaeological licence, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*. This condition provides for the potential for deeply buried or enigmatic local site areas not typically identified in evaluations of potential.
- The Cemeteries Act requires that any person discovering human remains must immediately notify the police or coroner and the Registrar of Cemeteries, Ministry of Small Business and Consumer Services. All work in the vicinity of the discovery will be suspended immediately. Other government staff may be contacted as appropriate; however, media contact should not be made in regard to the discovery.
- Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the *Ontario Heritage Act*, and may not be altered, or have artifacts removed, except by a person holding an archaeological licence.

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the *Ontario Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences. Please feel free to contact me if you have questions or require additional information.

Sincerely,

Paige Campbell
Archaeology Review Officer
paige.campbell@ontario.ca

cc. Paul Racher, Archaeological Research Associates Ltd.
Kimberley Arnold, Hatch Ltd.
Shari Prowse, ARO/GEA Coordinator, Ministry of Tourism and Culture

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Ministry of Tourism and Culture

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON P7E 6S7
Tel.: 807 475-1638
Fax: 807 475-1297

Ministère du Tourisme et de la Culture

Unité des programmes culturels
Direction des programmes et des services
Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1638
Télééc.: 807 475-1297



December 9, 2010

Tom Hockin
Northland Power
30 St. Clair Avenue West
17th Floor
Toronto, ON
M4V 3A1
Tom.Hockin@Northlandpower.ca

RE: Martin's Meadows Solar Project

Location: Lot 16, Concession 8, Geographic Township of Glackmeyer, District of Cochrane

FIT #: FM5F42U

MTC File #: HD00548

PIF: P007-281-2010

Dear Mr Hockin,

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report.*

The report recommends the following:

- Over the course of the Stage 2 archaeological assessment, no materials with significant cultural heritage value or interest were recovered. Accordingly, **Archaeological Research Associates Ltd.** feels that no further archaeological study of the area would be productive. It is recommended that the project be released from further heritage concerns. A **Letter of Concurrence** with these recommendations is requested.
- This report is filed with the Minister of Tourism and Culture as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 0.18 The report will be reviewed to ensure that the licensed consultant archaeologist has met the terms and conditions of their archaeological licence, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*. This condition provides for the potential for deeply buried or enigmatic local site areas not typically identified in evaluations of potential.
- The Cemeteries Act requires that any person discovering human remains must immediately notify the police or coroner and the Registrar of Cemeteries, Ministry of Small Business and Consumer Services. All work in the vicinity of the discovery will be suspended immediately. Other government staff may be contacted as appropriate; however, media contact should not be made in regard to the discovery.
- Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the *Ontario Heritage Act*, and may not be altered, or have artifacts removed, except by a person holding an archaeological licence.

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the *Ontario Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences. Please feel free to contact me if you have questions or require additional information.

Sincerely,

Paige Campbell
Archaeology Review Officer
paige.campbell@ontario.ca

cc. Paul Racher, Archaeological Research Associates Ltd.
Kimberley Arnold, Hatch Ltd.
Shari Prowse, ARO/GEA Coordinator, Ministry of Tourism and Culture

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Ministry of Tourism,
Culture and Sport

Ministère du Tourisme,
de la Culture et du Sport

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON, P7E 6S7
Telephone: 807-475-1632
Facsimile: 807-475-1291

Unité des programmes culturels
Direction des programmes et des services
Division de culture
435 rue James sud, Bureau 334
Thunder Bay, ON, P7E 6S7
Téléphone: 807-475-1632
Télécopieur: 807-4751291



Email: andrew.hinshelwood@Ontario.ca

June 15, 2012

Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON L2E 7J7

Northland Power
30 St. Clair Ave. W., 17th Floor
Toronto, ON M4V 3A1

Attn.: Kimberley Arnold
larnold@hatch.ca

Tom Hockin
tom.hockin@northlandpower.ca

RE: 115kV Transmission Line

**Geo. Twp. Glackmeyer, Clute and Calder,
District of Cochrane**

MTC File HD000675

MTC PIF P007-378-2011

Dear Proponent:

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report(s) you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines or the 2011 Standards and Guidelines for Consultant Archaeologists (whichever apply). Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report(s).*

The Archaeological Assessment Report Entitled, *Stage 1 and 2 Archaeological Assessments 115 kV Transmission Line Geo. Townships of Glackmeyer, Clute and Calder District of Cochrane, Ontario*, dated December 12, 2011, received MTCS Toronto office, December 08, 2011, recommends the following:

- *The Stage 1 and 2 archaeological assessment of the project lands were completed in November, 2011. The Stage 1 background study demonstrated that the study area*

consisted of areas of archaeological potential and areas of no archaeological potential. The Stage 2 property assessment of the project lands, conducted under optimal conditions, did not result in the identification of any archaeological materials.

- *Based on these findings, ARA feels that no further archaeological assessment of the study area would be productive. It is recommended that the project lands be released from further archaeological concerns.*

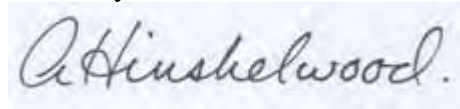
The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the Ontario *Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "A. Hinshelwood." The signature is written in black ink on a light blue background.

Andrew Hinshelwood
Archaeology Review Officer

cc. Paul Racher, ARA, pracher@arch-research.com
Mansoor Mahmood, MOE, mansoor.mahmood@ontario.ca

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Ministry of Tourism, Culture and Sport

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James Street, Suite 334
Thunder Bay ON P7E 6S7
Tel.: 807-475-1628
Email: paige.campbell@ontario.ca

Ministère du Tourisme, de la Culture et du Sport

Unité des programmes culturels
Direction des programmes et des services
Division de culture
435, rue James sud, bureau 334
Thunder Bay ON P7E 6S7
Tél.: 807-475-1628
Email: paige.campbell@ontario.ca



February 15, 2013

T. Keith Powers
The Archaeologists Inc.
790 Exceller Circle
Newmarket, ON L3X 1P6

Dear Mr. Powers,

RE: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, *Stage 1 and 2 Archaeological Assessment for Northland Power – Additional Lands (Martin’s Meadows & Abitibi Solar Projects) Part of Lot 15, Concession 8, Township of Glackmeyer, District of Cochrane FIT Contract # - F-000688-SPV-130-505 & F-000691-SPV-130-505 (FIT-FM5F42U & FIT-FAQLBA0)*, Dated January 23, 2013, Filed by MTCS Toronto Office January 28, 2013, MTCS Project Information Form Number P052-409-2012, MTCS File Number HD00547

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18.¹ This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 *Standards and Guidelines for Consultant Archaeologists* set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.²

¹ *This letter constitutes the Ministry of Tourism, Culture and Sport’s written comments where required pursuant to section 22 of O. Reg. 359/09, as amended (Renewable Energy Approvals under the Environmental Protection Act), regarding the archaeological assessment undertaken for the above-captioned project. Depending on the study area and scope of work of the archaeological assessment as detailed in the report, further archaeological assessment reports may be required to complete the archaeological assessment for the project under O. Reg. 359/09. In that event Ministry comments pursuant to section 22 of O. Reg. 359/09 will be required for any such additional reports.*

² *In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.*

The report documents the assessment of the study area as depicted in Map 2 of the above titled report and recommends the following:

The Stage 2 survey did not identify any archaeological sites requiring further assessment or mitigation of impacts and it is recommended that no further archaeological assessment of the property be required.

Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the ministry's 2011 *Standards and Guidelines for Consultant Archaeologists* and the terms and conditions for archaeological licences. This report has been entered into the Ontario Public Register of Archaeological Reports. Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,

Paige Campbell
Archaeology Review Officer

cc. Mr. Rob Miller, Northland Power Inc.

McRae, Elizabeth

From: Male, Sean
Sent: Friday, February 08, 2013 10:36 AM
To: 'Hinshelwood, Andrew (MTCS)'; Campbell, Paige (MTCS)
Cc: Rob Miller; 334844
Subject: RE: Northland - Cochrane Area Solar Projects

Thank you Andrew, will do.

-Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Hinshelwood, Andrew (MTCS) [<mailto:Andrew.Hinshelwood@ontario.ca>]
Sent: Friday, February 08, 2013 10:34 AM
To: Male, Sean; Campbell, Paige (MTCS)
Cc: Rob Miller; 334844
Subject: RE: Northland - Cochrane Area Solar Projects

Dear Sean,

Thank you for the information. We will indicate the change in our files.

Should any ground disturbance or additional lands be required for the project, archaeological assessment may be required. Feel free to contact us for additional direction if this becomes necessary.

Regards,

Andrew

Andrew Hinshelwood
Archaeology Review Officer
Programs and Services Branch
Ministry of Tourism, Culture and Sport
435 South James St., Suite 334
Thunder Bay, ON P7E 6S7

andrew.hinshelwood@Ontario.ca

(807) 475-1632 (phone)
(807) 475-1297 (fax)

From: Male, Sean [<mailto:SMale@Hatch.ca>]
Sent: February 8, 2013 10:26 AM
To: Hinshelwood, Andrew (MTCS); Campbell, Paige (MTCS)
Cc: Rob Miller; 334844
Subject: RE: Northland - Cochrane Area Solar Projects

Hi Andrew,

There are no proposed additions to the solar project and no additional ground disturbance required at present; this is really just a nomenclature change. That being said, I have prepared the attached key map that shows how the Projects relate to each other. The full extent of the transmission line is not shown, but that has not been modified from what was submitted previously.

Also, please be advised that we are formally proceeding with this change at present.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Hinshelwood, Andrew (MTCS) [<mailto:Andrew.Hinshelwood@ontario.ca>]
Sent: Tuesday, January 22, 2013 12:01 PM
To: Male, Sean; Campbell, Paige (MTCS)
Cc: Rob Miller; 334844
Subject: RE: Northland - Cochrane Area Solar Projects

Dear Sean,

I do not see that the change will be more than administrative from our end. However, before I commit to writing a letter on this change, would it be possible for you to provide a map showing the old boundaries of the three solar project areas and transmission line in comparison to the new project area. I am interested in seeing how much new land is brought into the new project envelope. Also, if there are any additional ground disturbing activities proposed in the new project, I would appreciate knowing of these as well.

Regards,

Andrew

Andrew Hinshelwood
Archaeology Review Officer
Programs and Services Branch
Ministry of Tourism, Culture and Sport
435 South James St., Suite 334
Thunder Bay, ON P7E 6S7

andrew.hinshelwood@Ontario.ca

(807) 475-1632 (phone)
(807) 475-1297 (fax)

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mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and destroy and delete the message from your computer.

Appendix H

Correspondence with Municipalities

Appendix H1

Town of Cochrane

June 1, 2011

Jean Pierre Ouellette, CAO, Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

Subject: Notice of a Proposal and Notice of Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects and we would like to invite you to the upcoming Public Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 2, 2011 and Thursday June 9, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 27, 2011

Jean Pierre Ouellette, CAO, Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

Subject: Notice of Change of Date for Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As previously notified in a letter dated, June 1, 2011, Northland Power is undertaking a public consultation program in support of the Projects. Due to a change in Project location, the previously notified date of Tuesday July 5, 2011 for the Public Meeting is changed to Wednesday July 27, 2011. We apologize for any inconvenience. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 23, 2011 and Thursday June 30, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

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4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

May 16, 2012

Richard Vallee, Building and Planning
Town of Cochrane, Clerk's Office
171 4th Ave.
Cochrane, On P0L 1C0

Dear Mr. Vallee

**Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project -
REA Reports for Review**

As you are aware, Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Enclosed are copies of the complete set of REA documents for each Project, including Project Description Report, Construction Plan Report, Design and Operation Report, Decommissioning Plan Report, Natural Heritage Assessment Reports, Water Body Assessment Reports, Stage 1 and 2 Archaeological Assessment Reports and Noise Assessment Report, as well as the Municipal Consultation Form. In accordance with the Ministry of Environment (MOE)'s requirements, these documents are provided to the Town of Cochrane for review. We request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

A public meeting is also to occur in the future, for which you will receive additional notification.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power



Attachment(s)/Enclosure:

Draft Project Description Report – Abitibi Solar Project
Draft Construction Plan Report – Abitibi Solar Project
Draft Design and Operations Report – Abitibi Solar Project
Draft Decommissioning Plan Report – Abitibi Solar Project
Stage 1 and 2 Archaeological Assessment Report – Abitibi Solar Project
Draft Natural Heritage Assessment Reports – Abitibi Solar Project
Draft Water Body Assessment Reports – Abitibi Solar Project
Draft Noise Assessment Report – Abitibi Solar Project
Municipal Consultation Form – Abitibi Solar Project

Draft Project Description Report – Empire Solar Project
Draft Construction Plan Report – Empire Solar Project
Draft Design and Operations Report – Empire Solar Project
Draft Decommissioning Plan Report – Empire Solar Project
Stage 1 and 2 Archaeological Assessment Report – Empire Solar Project
Draft Natural Heritage Assessment Reports – Empire Solar Project
Draft Water Body Assessment Reports – Empire Solar Project
Draft Noise Assessment Report – Empire Solar Project
Municipal Consultation Form – Empire Solar Project

Draft Project Description Report – Martin's Meadows Solar Project
Draft Construction Plan Report – Martin's Meadows Solar Project
Draft Design and Operations Report – Martin's Meadows Solar Project
Draft Decommissioning Plan Report – Martin's Meadows Solar Project
Stage 1 and 2 Archaeological Assessment Report – Martin's Meadows Solar Project
Draft Natural Heritage Assessment Reports – Martin's Meadows Solar Project
Draft Water Body Assessment Reports – Martin's Meadows Solar Project
Draft Noise Assessment Report – Martin's Meadows Solar Project
Municipal Consultation Form – Martin's Meadows Solar Project

Stage 1 and 2 Archaeological Assessment Report – 115kV Transmission Line

May 24, 2012

Jean Pierre Ouellette, CAO
Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

**Subject: Notice of Public Meeting and Renewable Energy Approvals Documents -
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects and has planned a public meeting on Tuesday, August 21, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday, May 24, 2012 and Thursday, July 26, 2012. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power. Please note a change has occurred in the proposed transmission line route and the attached map outlines both the previous proposed transmission line route, as shown at the last public meeting, and the revised proposed transmission line route.

In accordance with Section 16 (3) of Ontario Reg. 359/09, draft supporting documents, including the Project Description Report, Executive Summary, Design and Operations Report, Construction Plan Report, Decommissioning Plan Report, Noise Assessment Report, Stage 1 and 2 Archaeological Assessment Report, Natural Heritage Assessment Reports and Water Body Assessment Reports, are to follow and will be made available by Thursday, June 21, 2012 at (i) the Town of Cochrane Municipal Office and at (ii) the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing) or (iii) on-line at northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

May 24, 2012

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Attachment(s)/Enclosure

Notice of Public Meeting – Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project
Comparison Map of Transmission Line Route

cc: Tom Hockin, Northland Power
Carol-Ann Fletcher, Northland Power

May 31, 2011

Richard Vallée, Building and Planning
Town of Cochrane, Clerk's Office
171 4th Ave.
Cochrane, ON P0L 1C0

Dear Mr. Vallée

**Subject: Notice of a Proposal and Notice of Public Meeting -
Draft Project Description Report for Public Review -
Northland Power - Abitibi Solar Project, Empire Solar Project
and Martin's Meadows Solar Project**

Northland Power is proposing to construct three solar projects within the Town of Cochrane. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects, and we are providing the attached documents to commence this consultation. Please find attached a copy of the "Notice of a Proposal by Northland Power to Engage in a Renewable Energy Project and Notice of Public Meeting". This joint Notice will be published in the *Cochrane Times Post* on June 2, 2011 and June 9, 2011.

Also, please find enclosed a copy of the Draft "Project Description Report" for the proposed Projects. The Project Description Reports provide a summary of the proposed Project's design and of the preliminary findings of the environmental and associated studies. In accordance with the Ministry of Environment (MOE)'s requirements, can you please ensure that these reports are available for public review within your local municipal office. If you are unable to make these reports available for public review, please notify us, so we can make alternate arrangements.

The Draft Project Description Reports and further information about these Projects and about Northland Power can also be found online at: www.northlandpower.ca/abitibi, www.northlandpower.ca/empire, and www.northlandpower.ca/martinsmeadows.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SKM:mg

Attachments:

Notice of a Proposal/Notice of Public Meeting : Abitibi, Empire and Martin's Meadows Solar Project
Project Description Report: Abitibi Solar Project, Empire Solar Project, Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 8, 2012

Richard Vallee, Building and Planning
Town of Cochrane, Clerk's Office
171 4th Ave.
Cochrane, On P0L 1C0

Dear Mr. Vallee

Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project - REA Reports for Public Review

As you are aware, Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Further to the set of documents which we previously provided for review by the Town, enclosed are a copy of the complete set of REA documents for each Project to be made available for public review at the Town of Cochrane Municipal Office by Thursday, June 21, 2012. If this is not possible please contact the undersigned. Also, enclosed, is a copy of the Executive Summary for all three Projects for review by the Town.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power

Attachment(s)/Enclosure:

Draft Project Description Report – Abitibi Solar Project
Draft Construction Plan Report – Abitibi Solar Project
Draft Executive Summary Report – Abitibi Solar Project
Draft Design and Operations Report – Abitibi Solar Project
Draft Decommissioning Plan Report – Abitibi Solar Project



Stage 1 and 2 Archaeological Assessment Report – Abitibi Solar Project
Draft Natural Heritage Assessment Reports – Abitibi Solar Project
Draft Water Body Assessment Reports – Abitibi Solar Project
Draft Noise Assessment Report – Abitibi Solar Project

Draft Project Description Report – Empire Solar Project
Draft Executive Summary Report – Empire Solar Project
Draft Construction Plan Report – Empire Solar Project
Draft Design and Operations Report – Empire Solar Project
Draft Decommissioning Plan Report – Empire Solar Project
Stage 1 and 2 Archaeological Assessment Report – Empire Solar Project
Draft Natural Heritage Assessment Reports – Empire Solar Project
Draft Water Body Assessment Reports – Empire Solar Project
Draft Noise Assessment Report – Empire Solar Project

Draft Project Description Report – Martin's Meadows Solar Project
Draft Executive Summary Report – Martin's Meadows Solar Project
Draft Construction Plan Report – Martin's Meadows Solar Project
Draft Design and Operations Report – Martin's Meadows Solar Project
Draft Decommissioning Plan Report – Martin's Meadows Solar Project
Stage 1 and 2 Archaeological Assessment Report – Martin's Meadows Solar Project
Draft Natural Heritage Assessment Reports – Martin's Meadows Solar Project
Draft Water Body Assessment Reports – Martin's Meadows Solar Project
Draft Noise Assessment Report – Martin's Meadows Solar Project

Stage 1 and 2 Archaeological Assessment Report – 115kV Transmission Line

June 21, 2011

Richard Vallée, Building and Planning
Town of Cochrane, Clerk's Office
171 4th Ave.
Cochrane, ON P0L 1C0

Dear Mr. Vallée

**Subject: Notice of Change in Public Meeting Date -
Updated Draft Project Description Report for Public Review -
Northland Power - Abitibi Solar Project, Empire Solar Project
and Martin's Meadows Solar Project**

Northland Power is proposing to construct three solar projects within the Town of Cochrane. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As previously notified in a letter dated, May 31, 2011, Northland Power is undertaking a public consultation program in support of the Projects. Due to a change in Project location, the previously notified date of Tuesday July 5, 2011 for the Public Meeting is changed to Wednesday July 27, 2011. We apologize for any inconvenience. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 23, 2011 and Thursday June 30, 2011.

Enclosed are updated copies of the Draft "Project Description Report" for the proposed Projects. The Project Description Reports provide a summary of the proposed Project's design and of the preliminary findings of the environmental and associated studies. In accordance with the Ministry of Environment (MOE)'s requirements, can you please ensure that these reports are available for public review within your local municipal office. If you are unable to make these reports available for public review, please notify us, so we can make alternate arrangements.

The updated Draft Project Description Reports and further information about these Projects and about Northland Power can also be found online at: www.northlandpower.ca/abitibi, www.northlandpower.ca/empire, and www.northlandpower.ca/martinsmeadows.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SKM:mg

Attachments:

Notice of a Proposal/Notice of Public Meeting : Abitibi, Empire and Martin's Meadows Solar Project
Project Description Report: Abitibi Solar Project, Empire Solar Project, Martin's Meadows Solar Project



cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 18, 2012

Jean Pierre Ouellette, CAO
Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

Dear Mr. Ouellette:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

Northland Power is continuing a public consultation program in support of the Projects and has planned a public meeting on Thursday October 4, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday September 20, 2012, and Thursday September 27, 2012. The Public Meeting is being held to provide further information on the proposed 115 kV transmission line associated with the Projects.

As you may be aware, copies of the draft supporting documents were made available on June 21, 2012, at:

- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



Safety • Quality • Sustainability • Innovation

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake

September 18, 2012

Richard Vallée, Building and Planning
Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

Dear Mr. Vallée:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

Northland Power is continuing a public consultation program in support of the Projects and has planned a public meeting on Thursday October 4, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday September 20, 2012, and Thursday September 27, 2012. The Public Meeting is being held to provide further information on the proposed 115 kV transmission line associated with the Projects.

As you may be aware, copies of the draft supporting documents were made available on June 21, 2012, at:

- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



Safety • Quality • Sustainability • Innovation

H334844-0000-90-218-0160, Rev. 0

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake



Safety • Quality • Sustainability • Innovation

Gibson, Melissa

From: Gibson, Melissa
Sent: Friday, September 28, 2012 10:09 AM
To: 'richard.vallee@cochraneontario.com'
Cc: Male, Sean; 334844
Subject: Municipal Consultation Form for Proposed Northland Power Solar Facilities
Attachments: Abitibi_Municipal Consultation Form.pdf; Empire_Municipal Consultation Form.pdf; Martins Meadows_Municipal Consultation Form.pdf

Hi Richard,

As mentioned, please find the attached municipal consultation forms in regards to the Abitibi Solar Project, Empire Solar Project and Martin's Meadow Solar Project. As requested, please provide any comments on the proposed Projects in the municipal consultation forms. Copies of the reports are available on line at the links below:

Abitibi: <http://northlandpower.ca/abitibi/microsite.taf>

Empire: <http://northlandpower.ca/empire/microsite.taf>

Martin's Meadows: <http://northlandpower.ca/martinsmeadows/microsite.taf>

Thanks and please let me know if I can do anything to help,
Melissa

Melissa Gibson B.Sc

Environmental Scientist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5385

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario Canada L2E 7J7



Safety • Quality • Sustainability • Innovation

 Please consider the environment before printing this e-mail

Girodat, Sharon

From: Male, Sean
Sent: Thursday, January 24, 2013 2:33 PM
To: 'J.P. Ouellette'
Cc: Rob Miller; 334844
Subject: Northland Power - Cochrane Solar Project - Municipal Consultation Form
Attachments: Cochrane_Municipal Consultation Form.pdf

Hi J.P.

As you are aware, Northland Power is proposing to construct three solar Projects north of Cochrane, ON; the Abitibi, Empire and Martin's Meadows projects. As a result of discussions with the Ministry of the Environment, we are going to be combining these projects into a single project, known as the Cochrane Solar Project.

Previously we had provided the Town of Cochrane with a Municipal Consultation Form for each project, however I am now providing you with a single form that can be used for the combination of all 3 projects.

Please let me know if you have any questions or comments about the form. Also, the MOE has asked to inquire as to whether you will be completing the form, and if so, when you expect it to be provided back.

Thanks,

Sean
Sean K. Male, M.Sc.
Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280
Fax: +1 905 374 1157
4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

February 15, 2013

Richard Vallée
Building and Planning
Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

Dear Mr. Vallée:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

The Cochrane Solar Project will be located on the same properties as the Abitibi, Empire and Martin's Meadows Solar Projects and will have a nominal capacity of 30 MW (AC). This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09.

Please note that there are no changes to the Project location required as a result of this change.

Revised Renewable Energy Approval supporting documents for the Cochrane Solar Project will be available online at <http://cochrane.northlandpower.ca>. The former Project websites (abibi.northlandpower.ca, empire.northlandpower.ca and martinsmeadows.northlandpower.ca) have been redirected to this website.


February 15, 2013

We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,

A handwritten signature in black ink, appearing to read "Sean K. Male".

Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power

February 15, 2013

Jean Pierre Ouellette, CAO
Town of Cochrane
171 4th Avenue
Cochrane, ON P0L 1C0

Dear Mr. Ouellette:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

The Cochrane Solar Project will be located on the same properties as the Abitibi, Empire and Martin's Meadows Solar Projects and will have a nominal capacity of 30 MW (AC). This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09.

Please note that there are no changes to the Project location required as a result of this change.

Revised Renewable Energy Approval supporting documents for the Cochrane Solar Project will be available online at <http://cochrane.northlandpower.ca>. The former Project websites (abibi.northlandpower.ca, empire.northlandpower.ca and martinsmeadows.northlandpower.ca) have been redirected to this website.



February 15, 2013

We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power

Appendix H2

Cochrane & Suburban Planning Board

June 1, 2011

Pierre Demers, Secretary-Treasurer,
Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, On P0L 1C0

Subject: Notice of a Proposal and Notice of Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects and we would like to invite you to the upcoming Public Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 2, 2011 and Thursday June 9, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 27, 2011

Richard Vallée, Secretary-Treasurer, Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, On P0L 1C0

Subject: Notice of Change of Date for Public Meeting - Northland Power - Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As previously notified in a letter dated, June 1, 2011, Northland Power is undertaking a public consultation program in support of the Projects. Due to a change in Project location, the previously notified date of Tuesday July 5, 2011 for the Public Meeting is changed to Wednesday July 27, 2011. We apologize for any inconvenience. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 23, 2011 and Thursday June 30, 2011. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to these Projects and about Northland Power can be found online at: northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. As well, hardcopies are available at the Town of Cochrane municipal office. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

May 16, 2012

Pierre Demers
Cochrane & Suburban Planning Board
c/o Town of Cochrane
171 4th Avenue, PO Box 490
Cochrane, On, P0L 1C0

Dear Mr. Demers

**Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project -
REA Reports for Review**

As you are aware, Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Enclosed are copies of the complete set of REA documents for each Project, including Project Description Report, Construction Plan Report, Design and Operation Report, Decommissioning Plan Report, Natural Heritage Assessment Reports, Water Body Assessment Reports, Stage 1 and 2 Archaeological Assessment Report and Noise Assessment Report, as well as the Municipal Consultation Form. In accordance with the Ministry of Environment (MOE)'s requirements, these documents are provided to the Cochrane & Suburban Planning Board for review. We request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

A public meeting is also to occur in the future, for which you will receive additional notification.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Yours faithfully,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power

Attachment(s)/Enclosure :

Draft Project Description Report – Abitibi Solar Project
Draft Construction Plan Report – Abitibi Solar Project
Draft Design and Operations Report – Abitibi Solar Project
Draft Decommissioning Plan Report – Abitibi Solar Project
Stage 1 and 2 Archaeological Assessment Report – Abitibi Solar Project
Draft Natural Heritage Assessment Reports – Abitibi Solar Project
Draft Water Body Assessment Reports – Abitibi Solar Project
Draft Noise Assessment Report – Abitibi Solar Project
Municipal Consultation Form – Abitibi Solar Project

Draft Project Description Report – Empire Solar Project
Draft Construction Plan Report – Empire Solar Project
Draft Design and Operations Report – Empire Solar Project
Draft Decommissioning Plan Report – Empire Solar Project
Stage 1 and 2 Archaeological Assessment Report – Empire Solar Project
Draft Natural Heritage Assessment Reports – Empire Solar Project
Draft Water Body Assessment Reports – Empire Solar Project
Draft Noise Assessment Report – Empire Solar Project
Municipal Consultation Form – Empire Solar Project

Draft Project Description Report – Martin's Meadows Solar Project
Draft Construction Plan Report – Martin's Meadows Solar Project
Draft Design and Operations Report – Martin's Meadows Solar Project
Draft Decommissioning Plan Report – Martin's Meadows Solar Project
Stage 1 and 2 Archaeological Assessment Report – Martin's Meadows Solar Project
Draft Natural Heritage Assessment Reports – Martin's Meadows Solar Project
Draft Water Body Assessment Reports – Martin's Meadows Solar Project
Draft Noise Assessment Report – Martin's Meadows Solar Project
Municipal Consultation Form – Martin's Meadows Solar Project

Stage 1 and 2 Archaeological Assessment Report – 115kV Transmission Line

May 24, 2012

Pierre Demers, Secretary-Treasurer, Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, ON P0L 1C0

**Subject: Notice of Public Meeting and Renewable Energy Approvals Documents -
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

Northland Power is proposing to construct three solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects and has planned a public meeting on Tuesday, August 21, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday, May 24, 2012 and Thursday, July 26, 2012. The Public Meeting will provide the public with an opportunity to learn more about the Project proposals and about Northland Power. Please note a change has occurred in the proposed transmission line route and the attached map outlines both the previous proposed transmission line route, as shown at the last public meeting, and the revised proposed transmission line route.

In accordance with Section 16 (3) of Ontario Reg. 359/09, draft supporting documents, including the Project Description Report, Executive Summary, Design and Operations Report, Construction Plan Report, Decommissioning Plan Report, Noise Assessment Report, Stage 1 and 2 Archaeological Assessment Report, Natural Heritage Assessment Reports and Water Body Assessment Reports, are to follow and will be made available by Thursday, June 21, 2012 at (i) the Town of Cochrane Municipal Office and at (ii) the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing) or (iii) on-line at northlandpower.ca/abitibi, www.northlandpower.ca/empire and www.northlandpower.ca/martinsmeadows. We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.



May 24, 2012

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Attachment(s)/Enclosure

Notice of Public Meeting – Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project
Comparison Map of Transmission Line Route

cc: Tom Hockin, Northland Power
Carol-Ann Fletcher, Northland Power

May 31, 2011

Pierre Demers
Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, ON P0L 1C0

Dear Mr. Demers:

**Subject: Notice of a Proposal and Notice of Public Meeting -
Draft Project Description Report for Public Review -
Northland Power - Abitibi Solar Project, Empire Solar Project and
Martin's Meadows Solar Project**

Northland Power is proposing to construct three solar projects within the Town of Cochrane. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Projects, and we are providing the attached documents to commence this consultation. Please find attached a copy of the "Notice of a Proposal by Northland Power to Engage in a Renewable Energy Project and Notice of Public Meeting". This joint Notice will be published in the *Cochrane Times Post* on June 2, 2011 and June 9, 2011.

Please find enclosed a copy of the Draft "Project Description Report" for the proposed Projects. The Project Description Reports provide a summary of the proposed Project's design and of the preliminary findings of the environmental and associated studies.

The Draft Project Description Reports and further information about these Projects and about Northland Power can also be found on-line at: www.northlandpower.ca/abitibi, www.northlandpower.ca/empire, and www.northlandpower.ca/martinsmeadows.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SKM:mg

Attachments:

Notice of a Proposal/Notice of Public Meeting : Abitibi, Empire and Martin's Meadows Solar Project
Project Description Reports: Abitibi Solar Project, Empire Solar Project, Martin's Meadows Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

June 8, 2012

Pierre Demers
Cochrane & Suburban Planning Board
c/o Town of Cochrane
171 4th Avenue, PO Box 490
Cochrane, On, P0L 1C0

Dear Mr. Demers

Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project - REA Reports for Review

As you are aware, Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Enclosed are copies of the Executive Summaries that accompany the set of REA documents provided previously with a letter dated May 16, 2012. As previously stated, we request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Yours faithfully,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power

Attachment(s)/Enclosure :

Draft Executive Summary – Abitibi Solar Project
Draft Executive Summary – Empire Solar Project
Draft Executive Summary – Martin's Meadows Solar Project



June 20, 2011

Pierre Demers
Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, ON P0L 1C0

Dear Mr. Demers:

**Subject: Notice of Change of Public Meeting Date -
Updated Draft Project Description Report for Public Review -
Northland Power - Abitibi Solar Project, Empire Solar Project and
Martin's Meadows Solar Project**

Northland Power is proposing to construct three solar projects within the Town of Cochrane. The proposed projects are named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09 as amended by Ontario Regulation 521/10. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As previously notified in a letter dated, May 31, 2011, Northland Power is undertaking a public consultation program in support of the Projects. Due to a change in Project location, the previously notified date of Tuesday July 5, 2011 for the Public Meeting is changed to Wednesday July 27, 2011. We apologize for any inconvenience. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in *Cochrane Times Post* on Thursday June 23, 2011 and Thursday June 30, 2011.

Enclosed are updated copies of the Draft "Project Description Report" for the proposed Projects. The Project Description Reports provide a summary of the proposed Project's design and of the preliminary findings of the environmental and associated studies.

The updated Draft Project Description Reports and further information about these Projects and about Northland Power can also be found on-line at: www.northlandpower.ca/abitibi, www.northlandpower.ca/empire, and www.northlandpower.ca/martinsmeadows.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SKM:mg

Attachments:

Notice of a Proposal/Notice of Public Meeting : Abitibi, Empire and Martin's Meadows Solar Project
Project Description Reports: Abitibi Solar Project, Empire Solar Project, Martin's Meadows Solar Project



cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 18, 2012

Pierre Demers, Secretary-Treasurer
Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, On P0L 1C0

Dear Mr. Demers:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

Northland Power is continuing a public consultation program in support of the Projects and has planned a public meeting on Thursday October 4, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday September 20, 2012, and Thursday September 27, 2012. The Public Meeting is being held to provide further information on the proposed 115 kV transmission line associated with the Projects.

As you may be aware, copies of the draft supporting documents were made available on June 21, 2012, at:

- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



Safety • Quality • Sustainability • Innovation

H334844-0000-90-218-0160, Rev. 0

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake

Girodat, Sharon

From: Male, Sean
Sent: Thursday, January 24, 2013 2:29 PM
To: 'Richard Vallee'
Cc: Rob Miller; 334844
Subject: RE: Municipal Consultaiton Forms
Attachments: Cochrane_Municipal Consultation Form.pdf

Hi Richard,

Please find a municipal consultation form attached. Previously we had provided three separate forms (one for each of the Abitibi, Martin's Meadows and Empire Projects). However now that we are going to be applying to the MOE for a single REA Approval for what we are calling the Cochrane Solar Project (which is the combination of all three projects), there is only one form required back.

If you have any questions, please don't hesitate to let me know.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Richard Vallee [<mailto:Richard.Vallee@cochraneontario.com>]
Sent: Wednesday, January 23, 2013 4:05 PM
To: Male, Sean
Cc: Rob Miller; 334844
Subject: RE: Municipal Consultaiton Forms

Hello Sean, if you can please resend the forms, I cannot seem to find them. The board previously discussed the issues, but we were waiting on the final position of the power line before providing comment.

I have a planning Board meeting on January 28, 2013 and will put it on the agenda. We should be able to expedite shortly thereafter.

Richard

Richard Vallée

Director of Protective Services
Fire Chief/CBO

Cochrane Fire Department
Making House Calls since 1910



www.cochraneontario.com

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From: Male, Sean [<mailto:SMale@Hatch.ca>]
Sent: January-23-13 3:36 PM
To: Richard Vallee
Cc: Rob Miller; 334844
Subject: Municipal Consultaiton Forms

Hi Richard,

As you aware, Northland is proposing to construct 3 solar projects in the Town of Cochrane. Municipal Consultation Forms for those projects were provided to the Town and Planning board last year.

Have you had a chance to consider those forms and provide a response? The Ministry of the Environment is asking us for them, and I expect they will be following up with yourself if nothing is provided.

Also, we are going to be applying for these 3 projects as a single application, so if you only want to complete one form for all 3 projects, that is perfectly reasonable. Let me know if you need me to resend the forms.

Thanks,

Sean
Sean K. Male, M.Sc.
Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280
Fax: +1 905 374 1157
4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

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THE CORPORATION OF THE TOWN OF COCHRANE
LA CORPORATION DE LA VILLE DE COCHRANE

171 Fourth Avenue / 171 4^{ème} ave
P.O. Box 490 / C.P. 490
Cochrane, Ontario P0L 1C0
Tel: (705) 272-4361 Fax: (705) 272-6068
Email: townhall@town.cochrane.on.ca
Website: www.town.cochrane.on.ca

February 11, 2013

Hatch
Att: Sean K. Male
4342 Queen Street,
Suite 500,
Niagara Falls, ON
L2E 7J7

RE: Martin, Empire and Abitibi Solar Projects

Dear Sean,

The Cochrane and Suburban Planning Board at their January 31, 2013 meeting reviewed the reports submitted by Northland Power for the proposed solar projects in Glackmeyer Township.
Reviewed:

Martin Meadows: Lot 16, Con. 8 Glackmeyer Twp.
Empire: Lots 17, 18, Con. 7 Glackmeyer Twp.
Abitibi: Lots 14, 15, Con 8

The Cochrane and Planning Board have no objections or concerns with the project.

Regards,

Norm Ellerton, Chair

c.c: Cochrane Suburban Planning Board
Richard Vallée, Secretary Treasurer

February 15, 2013

Pierre Demers
Secretary-Treasurer
Cochrane & Suburban Planning Board
P.O Box 490
Cochrane, ON P0L 1C0

Dear Mr. Demers:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

The Cochrane Solar Project will be located on the same properties as the Abitibi, Empire and Martin's Meadows Solar Projects and will have a nominal capacity of 30 MW (AC). This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09.

Please note that there are no changes to the Project location required as a result of this change.

Revised Renewable Energy Approval supporting documents for the Cochrane Solar Project will be available online at <http://cochrane.northlandpower.ca>. The former Project websites (abibi.northlandpower.ca, empire.northlandpower.ca and martinsmeadows.northlandpower.ca) have been redirected to this website.



We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power

Appendix H3

Hunta Local Roads Board

May 16, 2012

Evelyn Schier, Secretary Treasurer
Hunta Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, On P0L 1C0

Dear Mrs. Schier

Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project - REA Reports for Review

Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process. The Projects are located within the Town of Cochrane, however the transmission line for the Project passes through areas under your jurisdiction.

Enclosed are copies of the complete set of REA documents for each Project, including Project Description Report, Construction Plan Report, Design and Operation Report, Decommissioning Plan Report, Natural Heritage Assessment Reports, Water Body Assessment Reports, Stage 1 and 2 Archaeological Assessment Reports and Noise Assessment Report, as well as the Municipal Consultation Form. In accordance with the Ministry of Environment (MOE)'s requirements, these documents are provided to the Hunta Local Roads Board for review. We request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

A public meeting is also to occur in the future, for which you will receive additional notification.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power



Carol-Ann Fletcher, Northland Power

Attachment(s)/Enclosure:

Draft Project Description Report – Abitibi Solar Project
Draft Construction Plan Report – Abitibi Solar Project
Draft Design and Operations Report – Abitibi Solar Project
Draft Decommissioning Plan Report – Abitibi Solar Project
Stage 1 and 2 Archaeological Assessment Report – Abitibi Solar Project
Draft Natural Heritage Assessment Reports – Abitibi Solar Project
Draft Water Body Assessment Reports – Abitibi Solar Project
Draft Noise Assessment Report – Abitibi Solar Project
Municipal Consultation Form – Abitibi Solar Project

Draft Project Description Report – Empire Solar Project
Draft Construction Plan Report – Empire Solar Project
Draft Design and Operations Report – Empire Solar Project
Draft Decommissioning Plan Report – Empire Solar Project
Stage 1 and 2 Archaeological Assessment Report – Empire Solar Project
Draft Natural Heritage Assessment Reports – Empire Solar Project
Draft Water Body Assessment Reports – Empire Solar Project
Draft Noise Assessment Report – Empire Solar Project
Municipal Consultation Form – Empire Solar Project

Draft Project Description Report – Martin's Meadows Solar Project
Draft Construction Plan Report – Martin's Meadows Solar Project
Draft Design and Operations Report – Martin's Meadows Solar Project
Draft Decommissioning Plan Report – Martin's Meadows Solar Project
Stage 1 and 2 Archaeological Assessment Report – Martin's Meadows Solar Project
Draft Natural Heritage Assessment Reports – Martin's Meadows Solar Project
Draft Water Body Assessment Reports – Martin's Meadows Solar Project
Draft Noise Assessment Report – Martin's Meadows Solar Project
Municipal Consultation Form – Martin's Meadows Solar Project

Stage 1 and 2 Archaeological Assessment Report – 115kV Transmission Line

From: Male, Sean
Sent: Tuesday, June 05, 2012 11:40 PM
To: 'Evelyn Shier'
Cc: 'Tom Hockin'; Carol-Ann Fletcher; 334844
Subject: RE: public meeting

Hi Evelyn,

Thank you for your comment. We can certainly accommodate that request. For the meeting in Hunta we will plan to have a presentation from 4:30 to 5, followed by a question and answer session/open house until 6:30.

Thank you,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Evelyn Shier [<mailto:05shier@puc.net>]
Sent: Sunday, June 03, 2012 3:19 PM
To: Male, Sean
Subject: public meeting

Good Morning -

In reference to your correspondence regarding a public meeting to be held Tuesday, August 21, 2012.

The trustees of the Hunta Local Roads Board feel it would be more beneficial for your representative to do a presentation on your project followed by a question and answer portion.

Would this be possible?

Your comments will be appreciated.

Thank you

Evelyn Shier, secretary

June 8, 2012

Evelyn Shier, Secretary Treasurer
Hunta Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, On P0L 1C0

Dear Mrs. Schier

Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project - REA Reports for Review

As you are aware, Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process. The Projects are located within the Town of Cochrane, however the transmission line for the Project passes through areas under your jurisdiction.

Enclosed are copies of the Executive Summaries that accompany the set of REA documents provided previously with a letter dated May 16, 2012. As previously stated, we request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power

Attachment(s)/Enclosure:

Draft Executive Summary – Abitibi Solar Project
Draft Executive Summary – Empire Solar Project
Draft Executive Summary – Martin's Meadows Solar Project

From: Gibson, Melissa
Sent: Friday, September 28, 2012 8:19 AM
To: '05shier@puc.net'
Cc: Male, Sean; 334844
Subject: Municipal Consultation Form for Proposed Northland Power Solar Facilities
Attachments: Long Lake- Municipal Consultation Form.pdf; Abitibi_ Municipal Consultation Form.pdf; Empire_ Municipal Consultation Form.pdf; Martins Meadows_ Municipal Consultation Form.pdf

Hi Evelyn,

As mentioned, please find the attached municipal consultation forms in regards to the Long Lake Solar Project, Abitibi Solar Project, Empire Solar Project and Martin's Meadow Solar Project. As was requested, please provide any comments on the proposed Projects in the municipal consultation forms. Copies of the reports are available on line at the links below:

Long Lake: <http://northlandpower.ca/longlake/microsite.taf>

Abitibi: <http://northlandpower.ca/abitibi/microsite.taf>

Empire: <http://northlandpower.ca/empire/microsite.taf>

Martin's Meadows: <http://northlandpower.ca/martinsmeadows/microsite.taf>

Thanks and please let me know if I can do anything to help,
Melissa

Melissa Gibson B.Sc

Environmental Scientist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5385

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario Canada L2E 7J7



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September 18, 2012

Evelyn Schier, Secretary-Treasurer
Hunta Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, ON P0L 1C0

Dear Ms. Schier:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

Northland Power is continuing a public consultation program in support of the Projects and has planned a public meeting on Thursday October 4, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday September 20, 2012, and Thursday September 27, 2012. The Public Meeting is being held to provide further information on the proposed 115 kV transmission line associated with the Projects.

As you may be aware, copies of the draft supporting documents were made available on June 21, 2012, at:

- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



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H334844-0000-90-218-0160, Rev. 0

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake

Girodat, Sharon

From: Gibson, Melissa
Sent: Monday, January 07, 2013 8:35 AM
To: Male, Sean
Cc: 334844
Subject: FW: Northland Power Solar Projects - Municipal Consultation Form

Hi Sean,
Please find the response below,
Thanks,
Melissa

Melissa Gibson

Environmental Scientist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5385
Niagara Falls



Please consider the environment before printing this e-mail

From: B&F Shier [<mailto:05shier@puc.net>]
Sent: Monday, December 31, 2012 8:40 AM
To: Gibson, Melissa
Subject: Re: Northland Power Solar Projects - Municipal Consultation Form

Good Morning Melissa,
In reference to the attached memo.
I had previously given the Consultation Forms to the chairman of our board for review. Having been in contact with him on the weekend, he has assured me they will be completed and forwarded to you by the end of January. This chairman is the only board member who was returned to office at our annual meeting and thus he was intending to discuss the proposals with the new board members to make them aware of the ongoing project.
Happy New Year
Evelyn

----- Original Message -----

From: [Gibson, Melissa](#)
To: 05shier@puc.net
Cc: [Male, Sean](#) ; [334844](#)
Sent: Friday, December 21, 2012 10:17 AM
Subject: Northland Power Solar Projects - Municipal Consultation Form

Hi Evelyn,
I am writing to inquire if you have any further comments or questions regarding the Abitibi, Empire, Long Lake or Martin's Meadows Solar Project. The Ministry of Environment is inquiring upon the timeline for your submission of the Municipal Consultation Form, if you could let us know when or if you plan on submitting the form that would be great,
Thanks for your time and Happy Holidays,
Melissa

Melissa Gibson B.Sc

Environmental Scientist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5385

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario Canada L2E 7J7



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NOTICE - This message from Hatch is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and destroy and delete the message from your computer.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2013.0.2805 / Virus Database: 2637/5986 - Release Date: 12/25/12

PART A: TO BE COMPLETED BY THE APPLICANT BEFORE SUBMITTING TO MUNICIPALITY OR LOCAL AUTHORITY
Section 1 - Project Description
1.1 - Renewable Energy Project

Project Name <i>(Project identifier to be used as a reference in correspondence)</i> Abitibi Solar Project					
Project Location					
Same as Applicant Physical Address? <input type="checkbox"/> Yes <input type="checkbox"/> No (If no, please provide site address information below)					
Civic Address- Street information <i>(includes street number, name, type and direction)</i>					Unit Identifier <i>(i.e. apartment number)</i>
Survey Address <i>(Not required if Street Information is provided)</i>	Lot Lot 14 and 15	Conc. Concession 8	Part	Reference Plan	
Location Information <i>(includes any additional information to clarify physical location)(e.g. municipality, ward/ township)</i> Town of Cochrane, Ontario					
Geo Reference <i>(e.g. southwest corner of property)</i>					
Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing
Project Phasing <i>(outline construction, operation and decommissioning activities)</i>					
<p>Construction - Construction of access roads, clearing and ground leveling for solar panel installation and lay down areas, installation of support structures, including concrete foundations. Also, underground cabling and the distribution line for the produced power will be constructed. Additionally, if required, erosion and sedimentation control measures and fencing around the Project site could also occur.</p> <p>Operation - Operation and maintenance of solar panels and associated infrastructure.</p> <p>Decommissioning - Removal of all project infrastructure and site restoration of disturbed areas to past land use activities.</p>					

1.2 - Environmental Context

Describe any negative environmental effects that may result from engaging in the project <i>(consider construction, operation and decommissioning activities.)</i> Environmental effects that may occur from this project include, but are not limited to: -increase in ambient sound level degradation of soil quality and quantity -decrease in availability and quantity of both surface water and groundwater -disruptions and potential loss of wetlands, woodlands and aquatic habitat located on or near the Project site -reductions in local air quality during construction.
Propose early avoidance/prevention/mitigation concepts and measures. - Noise studies to be carried out in order to ensure no impact on receptors; noise barriers will be considered if required - Erosion and sedimentation controls will be used to limit the impact on soil and the reduction in water quality - No solar panels to be placed within at least 30 m of the high water mark of a watercourse - A spill clean-up procedure/emergency response plan will be developed for the site by the construction contractor - Appropriate air quality control measures could be used during construction, if required.

1.3 - Renewable Energy Generation Facility

Type of Facility / Operation <i>(select all that apply & complete all appropriate sections)</i>			
<input type="checkbox"/> Wind Facility (Land Based)	<input type="checkbox"/> Biofuel Facility		
<input type="checkbox"/> Wind Facility (Off-Shore)	<input checked="" type="checkbox"/> Solar Photo Voltaic Facility		
<input type="checkbox"/> Biogas Facility (Anaerobic Digesters)	<input type="checkbox"/> Other (describe) : _____		
<input type="checkbox"/> Biomass Facility (Thermal Treatment)	<input type="checkbox"/> Class (if applicable) : _____		
Name Plate Capacity	Expected Generation	Service Area	Total Area of Site <i>(hectares)</i>
10 MW AC			97.59 ha
Provide a description of the facilities equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity. Solar photovoltaic panels will be installed on the site to convert solar energy into electricity. The panels will be a crystalline technology, but the specific models are to be determined.			

1.4 – Renewable Energy Generation Activities

Describe the activities that will be engaged in as part of the renewable energy project The facility operates during daylight hours, year round when sufficient solar irradiation exists to generate electricity. Operation is remotely monitored. The facility requires periodic visits during the operation phase for inspections of equipment. Routine maintenance is expected to occur every 2-3 months. Additionally, if lower than anticipated power output occurs, a further site visit will occur as it is indicative of a mechanical problem
--

Section 2 – Supporting Documents

2.1 – Required Documents Distributed for Consultation

Requirement	Name of Draft Document	Date available to Municipal or Local Authority Contact
DRAFT Project Description Report	Draft Project Description Report - Abitibi Solar Project	May 18, 2012
DRAFT Design and Operations Report	Draft Design and Operation Report - Abitibi Solar Project	May 18, 2012
DRAFT Construction Plan Report	Draft Construction Plan Report - Abitibi Solar Project	May 18, 2012
DRAFT Decommissioning Plan Report	Draft Decommissioning Plan Report - Abitibi Solar Project	May 18, 2012

2.2 – Cross Reference to Part B Section 5 - Municipal Consultation Requirements

Requirement	Name(s) of Draft Document(s) and Page Numbers where Relevant Information can be Found
Infrastructure and Servicing	DRAFT Design and Operations Report - Abitibi - Section 3.2.5
Road Access	DRAFT Design and Operations Report - Abitibi - Section 3.2.1.2 and Appendix A
Traffic Management Plans	DRAFT Construction Plan Report - Abitibi - Section 3.8
Municipal Service Connections (other than roads)	TBD
Landscaping Design	DRAFT Design and Operations - Abitibi, Section 3.2.5 and Section 4
Emergency Management Procedures / Safety Protocols.	DRAFT Design and Operations - Abitibi Section 6
Easements or Restrictive Covenants	DRAFT Executive Summary - Appendix N
Temporary Disturbance Areas / Municipal Infrastructure that could be Damaged During Construction	TBD
Fire Hydrants and Connections to Existing Drainage, Water Works and	TBD

Sanitary Sewers	
Buried Kiosks and Above-Grade Utility Vaults	TBD
Existing and Proposed Gas and Electricity Lines and Connections	DRAFT Construction Plan Report - Abitibi, Section 3.2
Building Code Permits and Licenses	TBD
Natural Features and Water Bodies	DRAFT Natural Heritage Assessment Reports and DRAFT Water Body Assessment Reports
Archaeological Resource or Heritage Resource	Stage 1 and 2 Archaeological Assessment Report - Abitibi DRAFT Executive Summary - Abitibi Appendix N

2.3 – Location where written draft reports can be obtained for public inspection

Identify the location where written draft reports can be obtained for public inspection:
(physical location for viewing and the applicants project website if one is available)

Copies of the REA Reports will be made available on the applicant website (northlandpower.ca/abitibi). Hard copies will be made available at the Town of Cochrane municipal office, Ontario prior to the final public meeting.

Section 3 – Applicant Address and Contact Information

3.1 - Applicant Information (Owner of project/facility)

Applicant Name <i>(legal name of individual or organization as evidenced by legal documents)</i> Northland Power Solar Abitibi L.P				Business Identification Number	
Business Name <i>(the name under which the entity is operating or trading - also referred to as trade name)</i>				<input type="checkbox"/> same as Applicant Name	
Civic Address- Street information <i>(includes street number, name, type and direction)</i> c/o Northland Power Inc. 30 St.Clair Ave. West				Unit Identifier <i>(i.e. apartment number)</i>	
Survey Address <i>(Not required if Street Information is provided)</i>		Lot	Conc.	Part	Reference Plan
Municipality Toronto	County/District	Province/State On	Country Canada	Postal Code M4V 3A1	

PART B: TO BE COMPLETED BY THE MUNICIPALITY OR LOCAL AUTHORITY
Section 4 – Municipality or Local Authority Contact Information
1.1 - Municipal or local authority Information (complete one of the following sections)

Local Municipality / Unorganized Township Name of Municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Upper Tier Municipality Name of Municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Local Roads Area Name of local roads board <i>Huntara Local Roads Board</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No Address <i>Box 2006 Cochrane Ont POLICO</i>	Phone
Secretary-treasurer's Name <i>Evelyn Shier</i>	Secretary-treasurer's Phone/Fax <i>705 272-6314</i>	E-Mail Address
Local Service Board area Name of Local Service Board	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Secretary's Name	Secretary's Phone/Fax	E-Mail Address

Section 5 – Consultation Requirements

See Part A Section 2.2 to cross reference to locations in Draft Reports where information on specific Consultation Requirements can be found

5.1 - Project Location

Provide comment on the project location with respect to infrastructure and servicing.

5.2 – Project Roads

Provide comment on the proposed project's plans respecting proposed road access.

High voltage Transmission lines in a Local Roads Board Road Allowance - Road allowances are for Hydro distribution lines, sewer, water, gas + telephone not high Voltage lines.

Identify any issues and provide recommendations with respect to road access

*High Voltage Transmission line in Road allowance will hinder any future maintenance and upgrades to existing roads. It could cause safety issues with contractors and general public as maintenance and upgrades are carried out on the roadway.
All easements for Transmission lines should be outside of Road Right of ways.*

Provide comment on any proposed Traffic Management Plans

Identify any issues and provide recommendations with respect to the proposed Traffic Management Plans

5.3 – Municipal or Local authority Service Connections

Provide comment on the proposed project plans related to the location of and type of municipal service connections, other than roads.

Identify any issues and provide recommendations with respect to the type of municipal service connections, other than roads.

5.4 – Facility Other

Identify any issues and recommendations with respect to the proposed landscaping design for the facility

Provide comment on the proposed project plans for emergency management procedures / safety protocols.

5.4 – Facility Other (continued)

Identify any issues and recommendations with respect to the proposed emergency management procedures / safety protocols.

Identify any issues and recommendations with respect to any Easements or Restrictive Covenants associated with the Project Location

5.5 Project Construction

Identify any issues and recommendations with respect to the proposed rehabilitation of any temporary disturbance areas and any municipal or local authority infrastructure that could be damaged during construction.

Local Roads Board roads are maintained to medium weight traffic standards and are not designed for heavy loads - Heavy loads are restricted to frozen conditions. All damages to road surfaces, infrastructure will be billed to the proponent.

Identify any issues and recommendations with respect to the proposed location of fire hydrants and connections to existing drainage, water works and sanitary sewers

Identify any issues and recommendations with respect to the proposed location of buried kiosks and above-grade utility vaults

Identify any issues and recommendations with respect to the proposed location of existing and proposed gas and electricity lines and connections

5.5 Project Construction *(continued)*

<p>Provide comment on the proposed project plans with respect to Building Code permits and licenses.</p>
<p>Identify any issues and recommendations related to the identification of any significant natural features and water bodies within the municipality or territory.</p>
<p>Identify any issues and recommendations related to the identification any archaeological resource or heritage resource.</p>

PART A: TO BE COMPLETED BY THE APPLICANT BEFORE SUBMITTING TO MUNICIPALITY OR LOCAL AUTHORITY
Section 1 - Project Description
1.1 - Renewable Energy Project

Project Name <i>(Project identifier to be used as a reference in correspondence)</i> Empire Solar Project					
Project Location Same as Applicant Physical Address? <input type="checkbox"/> Yes <input type="checkbox"/> No (If no, please provide site address information below)					
Civic Address- Street information <i>(includes street number, name, type and direction)</i>					Unit Identifier <i>(i.e. apartment number)</i>
Survey Address <i>(Not required if Street Information is provided)</i>	Lot Lot 17 and 18	Conc. Concession 7	Part	Reference Plan	
Location Information <i>(includes any additional information to clarify physical location)(e.g. municipality, ward/ township)</i> Town of Cochrane, Ontario					
Geo Reference <i>(e.g. southwest corner of property)</i>					
Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing
Project Phasing <i>(outline construction, operation and decommissioning activities)</i>					
<p>Construction - Construction of access roads, clearing and ground leveling for solar panel installation and lay down areas, installation of support structures, including concrete foundations. Also, underground cabling and the distribution line for the produced power will be constructed. Additionally, if required, erosion and sedimentation control measures and fencing around the Project site could also occur.</p> <p>Operation - Operation and maintenance of solar panels and associated infrastructure.</p> <p>Decommissioning - Removal of all project infrastructure and site restoration of disturbed areas to past land use activities.</p>					

1.2 - Environmental Context

Describe any negative environmental effects that may result from engaging in the project <i>(consider construction, operation and decommissioning activities.)</i> Environmental effects that may occur from this project include, but are not limited to: -increase in ambient sound level degradation of soil quality and quantity -decrease in availability and quantity of both surface water and groundwater -disruptions and potential loss of wetlands, woodlands and aquatic habitat located on or near the Project site -reductions in local air quality during construction.
Propose early avoidance/prevention/mitigation concepts and measures. - Noise studies to be carried out in order to ensure no impact on receptors; noise barriers will be considered if required - Erosion and sedimentation controls will be used to limit the impact on soil and the reduction in water quality - No solar panels to be placed within at least 30 m of the high water mark of a watercourse - A spill clean-up procedure/emergency response plan will be developed for the site by the construction contractor - Appropriate air quality control measures could be used during construction, if required.

1.3 - Renewable Energy Generation Facility

Type of Facility / Operation <i>(select all that apply & complete all appropriate sections)</i>			
<input type="checkbox"/> Wind Facility (Land Based)	<input type="checkbox"/> Biofuel Facility		
<input type="checkbox"/> Wind Facility (Off-Shore)	<input checked="" type="checkbox"/> Solar Photo Voltaic Facility		
<input type="checkbox"/> Biogas Facility (Anaerobic Digesters)	<input type="checkbox"/> Other (describe) : _____		
<input type="checkbox"/> Biomass Facility (Thermal Treatment)	<input type="checkbox"/> Class (if applicable) : _____		
Name Plate Capacity	Expected Generation	Service Area	Total Area of Site <i>(hectares)</i>
10 MW AC			122.1 ha
Provide a description of the facilities equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity. Solar photovoltaic panels will be installed on the site to convert solar energy into electricity. The panels will be a crystalline technology, but the specific models are to be determined.			

1.4 – Renewable Energy Generation Activities

Describe the activities that will be engaged in as part of the renewable energy project The facility operates during daylight hours, year round when sufficient solar irradiation exists to generate electricity. Operation is remotely monitored. The facility requires periodic visits during the operation phase for inspections of equipment. Routine maintenance is expected to occur every 2-3 months. Additionally, if lower than anticipated power output occurs, a further site visit will occur as it is indicative of a mechanical problem
--

Section 2 – Supporting Documents

2.1 – Required Documents Distributed for Consultation

Requirement	Name of Draft Document	Date available to Municipal or Local Authority Contact
DRAFT Project Description Report	Draft Project Description Report - Empire Solar Project	May 18, 2012
DRAFT Design and Operations Report	Draft Design and Operation Report - Empire Solar Project	May 18, 2012
DRAFT Construction Plan Report	Draft Construction Plan Report - Empire Solar Project	May 18, 2012
DRAFT Decommissioning Plan Report	Draft Decommissioning Plan Report - Empire Solar Project	May 18, 2012

2.2 – Cross Reference to Part B Section 5 - Municipal Consultation Requirements

Requirement	Name(s) of Draft Document(s) and Page Numbers where Relevant Information can be Found
Infrastructure and Servicing	DRAFT Design and Operations Report - Empire - Section 3.2.5
Road Access	DRAFT Design and Operations Report - Empire - Section 3.2.1.2 and Appendix A
Traffic Management Plans	DRAFT Construction Plan Report - Empire - Section 3.8
Municipal Service Connections (other than roads)	TBD
Landscaping Design	DRAFT Design and Operations - Empire Section 3.2.5 and Section 4
Emergency Management Procedures / Safety Protocols.	DRAFT Design and Operations - Empire Section 6
Easements or Restrictive Covenants	DRAFT Executive Summary - Appendix N
Temporary Disturbance Areas / Municipal Infrastructure that could be Damaged During Construction	TBD
Fire Hydrants and Connections to Existing Drainage, Water Works and	TBD

Sanitary Sewers	
Buried Kiosks and Above-Grade Utility Vaults	TBD
Existing and Proposed Gas and Electricity Lines and Connections	DRAFT Construction Plan Report - Empire Section 3.2
Building Code Permits and Licenses	TBD
Natural Features and Water Bodies	DRAFT Natural Heritage Assessment Reports and DRAFT Water Body Assessment Reports
Archaeological Resource or Heritage Resource	Stage 1 and 2 Archaeological Assessment Report - Empire DRAFT Executive Summary - Empire Appendix N

2.3 – Location where written draft reports can be obtained for public inspection

Identify the location where written draft reports can be obtained for public inspection:
(physical location for viewing and the applicants project website if one is available)

Copies of the REA Reports will be made available on the applicant website (northlandpower.ca/empire). Hard copies will be made available at the Town of Cochrane municipal office, Ontario prior to the final public meeting.

Section 3 – Applicant Address and Contact Information

3.1 - Applicant Information *(Owner of project/facility)*

Applicant Name <i>(legal name of individual or organization as evidenced by legal documents)</i> Northland Power Solar Empire L.P				Business Identification Number	
Business Name <i>(the name under which the entity is operating or trading - also referred to as trade name)</i>					<input type="checkbox"/> same as Applicant Name
Civic Address- Street information <i>(includes street number, name, type and direction)</i> c/o Northland Power Inc. 30 St.Clair Ave. West				Unit Identifier <i>(i.e. apartment number)</i>	
Survey Address <i>(Not required if Street Information is provided)</i>		Lot	Conc.	Part	Reference Plan
Municipality Toronto	County/District	Province/State On	Country Canada	Postal Code M4V 3A1	



Ministry of the Environment

Renewable Energy Approval
Municipal / Local Authority Consultation Form – PART B
s.18(2) Ontario Regulation 359/09

Ce formulaire est disponible en français

PART B: TO BE COMPLETED BY THE MUNICIPALITY OR LOCAL AUTHORITY

Section 4 – Municipality or Local Authority Contact Information

1.1 - Municipal or local authority Information (complete one of the following sections)

Form with multiple sections for contact information, including checkboxes for 'Yes' and 'No', and fields for Name, Address, Phone, Clerk's Name, Clerk's Phone/Fax, E-Mail Address, and Secretary's Name.

Section 5 – Consultation Requirements

See Part A Section 2.2 to cross reference to locations in Draft Reports where information on specific Consultation Requirements can be found

5.1 - Project Location

Provide comment on the project location with respect to infrastructure and servicing.

5.2 – Project Roads

Provide comment on the proposed project's plans respecting proposed road access.

High Voltage Transmission lines in Local Roads Board Road allowance, Road Allowances are for Hydro distribution lines, sewer, water, gas + telephone not High Voltage lines

Identify any issues and provide recommendations with respect to road access

High voltage Transmission lines in Road allowance will hinder any future maintenance and upgrades to existing roads. It could cause safety issues with contractors and general public as maintenance & upgrades are carried out on the roadways.
All easements for Transmission lines should be outside of road allowances.

Provide comment on any proposed Traffic Management Plans

Identify any issues and provide recommendations with respect to the proposed Traffic Management Plans

5.3 – Municipal or Local authority Service Connections

Provide comment on the proposed project plans related to the location of and type of municipal service connections, other than roads.

Identify any issues and provide recommendations with respect to the type of municipal service connections, other than roads.

5.4 – Facility Other

Identify any issues and recommendations with respect to the proposed landscaping design for the facility

Provide comment on the proposed project plans for emergency management procedures / safety protocols.

5.4 – Facility Other (continued)

Identify any issues and recommendations with respect to the proposed emergency management procedures / safety protocols.

Identify any issues and recommendations with respect to any Easements or Restrictive Covenants associated with the Project Location

5.5 Project Construction

Identify any issues and recommendations with respect to the proposed rehabilitation of any temporary disturbance areas and any municipal or local authority infrastructure that could be damaged during construction.

Local Roads Board roads are maintained to medium weight traffic and are not designed for heavy loads - heavy loads are restricted to frozen conditions. All damage to road surfaces and infrastructure within the Local Roads Board Roads will be billed to the proponent.

Identify any issues and recommendations with respect to the proposed location of fire hydrants and connections to existing drainage, water works and sanitary sewers

Identify any issues and recommendations with respect to the proposed location of buried kiosks and above-grade utility vaults

Identify any issues and recommendations with respect to the proposed location of existing and proposed gas and electricity lines and connections

Identify any issues and recommendations with respect to the proposed location of existing and proposed gas and electricity lines and connections

5.5 Project Construction *(continued)*

<p>Provide comment on the proposed project plans with respect to Building Code permits and licenses.</p>
<p>Identify any issues and recommendations related to the identification of any significant natural features and water bodies within the municipality or territory.</p>
<p>Identify any issues and recommendations related to the identification any archaeological resource or heritage resource.</p>

PART A: TO BE COMPLETED BY THE APPLICANT BEFORE SUBMITTING TO MUNICIPALITY OR LOCAL AUTHORITY
Section 1 - Project Description
1.1 - Renewable Energy Project

Project Name (<i>Project identifier to be used as a reference in correspondence</i>)					
Martin's Meadows Solar Project					
Project Location					
Same as Applicant Physical Address? <input type="checkbox"/> Yes <input type="checkbox"/> No (If no, please provide site address information below)					
Civic Address- Street information (<i>includes street number, name, type and direction</i>)					Unit Identifier (<i>i.e. apartment number</i>)
Survey Address (<i>Not required if Street Information is provided</i>)	Lot	Conc.	Part	Reference Plan	
(<i>Not required if Street Information is provided</i>)	Lot 16	Concession 8			
Location Information (<i>includes any additional information to clarify physical location</i>)(<i>e.g. municipality, ward/ township</i>)					
Town of Cochrane, Ontario					
Geo Reference (<i>e.g. southwest corner of property</i>)					
Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing
Project Phasing (<i>outline construction, operation and decommissioning activities</i>)					
Construction - Construction of access roads, clearing and ground leveling for solar panel installation and lay down areas, installation of support structures, including concrete foundations. Also, underground cabling and the distribution line for the produced power will be constructed. Additionally, if required, erosion and sedimentation control measures and fencing around the Project site could also occur.					
Operation - Operation and maintenance of solar panels and associated infrastructure.					
Decommissioning - Removal of all project infrastructure and site restoration of disturbed areas to past land use activities.					

1.2 - Environmental Context

Describe any negative environmental effects that may result from engaging in the project (<i>consider construction, operation and decommissioning activities.</i>)
Environmental effects that may occur from this project include, but are not limited to:
-increase in ambient sound level
degradation of soil quality and quantity
-decrease in availability and quantity of both surface water and groundwater
-disruptions and potential loss of wetlands, woodlands and aquatic habitat located on or near the Project site
-reductions in local air quality during construction.
Propose early avoidance/prevention/mitigation concepts and measures.
- Noise studies to be carried out in order to ensure no impact on receptors; noise barriers will be considered if required
- Erosion and sedimentation controls will be used to limit the impact on soil and the reduction in water quality
- No solar panels to be placed within at least 30 m of the high water mark of a watercourse
- A spill clean-up procedure/emergency response plan will be developed for the site by the construction contractor
- Appropriate air quality control measures could be used during construction, if required.

1.3 - Renewable Energy Generation Facility

Type of Facility / Operation (select all that apply & complete all appropriate sections)

- | | |
|--|--|
| <input type="checkbox"/> Wind Facility (Land Based) | <input type="checkbox"/> Biofuel Facility |
| <input type="checkbox"/> Wind Facility (Off-Shore) | <input checked="" type="checkbox"/> Solar Photo Voltaic Facility |
| <input type="checkbox"/> Biogas Facility (Anaerobic Digesters) | <input type="checkbox"/> Other (describe) : _____ |
| <input type="checkbox"/> Biomass Facility (Thermal Treatment) | <input type="checkbox"/> Class (if applicable) : _____ |

Name Plate Capacity	Expected Generation	Service Area	Total Area of Site (hectares)
10 MW AC			82.3 ha

Provide a description of the facilities equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity.

Solar photovoltaic panels will be installed on the site to convert solar energy into electricity. The panels will be a crystalline technology, but the specific models are to be determined.

1.4 – Renewable Energy Generation Activities

Describe the activities that will be engaged in as part of the renewable energy project
The facility operates during daylight hours, year round when sufficient solar irradiation exists to generate electricity. Operation is remotely monitored. The facility requires periodic visits during the operation phase for inspections of equipment. Routine maintenance is expected to occur every 2-3 months. Additionally, if lower than anticipated power output occurs, a further site visit will occur as it is indicative of a mechanical problem

Section 2 – Supporting Documents

2.1 – Required Documents Distributed for Consultation

Requirement	Name of Draft Document	Date available to Municipal or Local Authority Contact
DRAFT Project Description Report	Draft Project Description Report - Martin's Meadows Solar Project	May 18, 2012
DRAFT Design and Operations Report	Draft Design and Operation Report - Martin's Meadows Solar Project	May 18, 2012
DRAFT Construction Plan Report	Draft Construction Plan Report - Martin's Meadows Solar Project	May 18, 2012
DRAFT Decommissioning Plan Report	Draft Decommissioning Plan Report - Martin's Meadows Solar Project	May 18, 2012

2.2 – Cross Reference to Part B Section 5 - Municipal Consultation Requirements

Requirement	Name(s) of Draft Document(s) and Page Numbers where Relevant Information can be Found
Infrastructure and Servicing	DRAFT Design and Operations Report - Martin's Meadows - Section 3.2.5
Road Access	DRAFT Design and Operations Report - Martin's Meadows - Section 3.2.1.2 and Appendix A
Traffic Management Plans	DRAFT Construction Plan Report - Martin's Meadows - Section 3.8
Municipal Service Connections (other than roads)	TBD
Landscaping Design	DRAFT Design and Operations - Martin's Meadows Section 3.2.5 and Section 4
Emergency Management Procedures / Safety Protocols.	DRAFT Design and Operations - Martin's Meadows Section 6
Easements or Restrictive Covenants	DRAFT Executive Summary - Appendix N
Temporary Disturbance Areas / Municipal Infrastructure that could be Damaged During Construction	TBD
Fire Hydrants and Connections to Existing Drainage, Water Works and	TBD

Sanitary Sewers	
Buried Kiosks and Above-Grade Utility Vaults	TBD
Existing and Proposed Gas and Electricity Lines and Connections	DRAFT Construction Plan Report - Martin's Meadows Section 3.2
Building Code Permits and Licenses	TBD
Natural Features and Water Bodies	DRAFT Natural Heritage Assessment Reports and DRAFT Water Body Assessment Reports
Archaeological Resource or Heritage Resource	Stage 1 and 2 Archaeological Assessment Report - Martin's Meadows DRAFT Executive Summary - Martin's Meadows Appendix N

2.3 – Location where written draft reports can be obtained for public inspection

Identify the location where written draft reports can be obtained for public inspection:

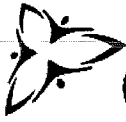
(physical location for viewing and the applicants project website if one is available)

Copies of the REA Reports will be made available on the applicant website (northlandpower.ca/martinsmeadows). Hard copies will be made available at the Town of Cochrane municipal office, Ontario prior to the final public meeting.

Section 3 – Applicant Address and Contact Information

3.1 - Applicant Information (Owner of project/facility)

Applicant Name <i>(legal name of individual or organization as evidenced by legal documents)</i> Northland Power Solar Martin's Meadows L.P				Business Identification Number
Business Name <i>(the name under which the entity is operating or trading - also referred to as trade name)</i>				<input type="checkbox"/> same as Applicant Name
Civic Address- Street information <i>(includes street number, name, type and direction)</i> c/o Northland Power Inc. 30 St.Clair Ave. West			Unit Identifier <i>(i.e. apartment number)</i>	
Survey Address <i>(Not required if Street Information is provided)</i>	Lot	Conc.	Part	Reference Plan
Municipality Toronto	County/District	Province/State On	Country Canada	Postal Code M4V 3A1



Ontario

Ministry of the Environment

Renewable Energy Approval
Municipal / Local Authority Consultation Form – PART E
s.18(2) Ontario Regulation 359/09

Ce formulaire est disponible en français

PART B: TO BE COMPLETED BY THE MUNICIPALITY OR LOCAL AUTHORITY

Section 4 – Municipality or Local Authority Contact Information

1.1 - Municipal or local authority Information (complete one of the following sections)

Local Municipality / Unorganized Township Name of Municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Upper Tier Municipality Name of Municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Local Roads Area Name of local roads board	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Secretary-treasurer's Name	Secretary-treasurer's Phone/Fax	E-Mail Address
Local Service Board area Name of Local Service Board	<input type="checkbox"/> Yes <input type="checkbox"/> No Address	Phone
Secretary's Name	Secretary's Phone/Fax	E-Mail Address

Section 5 – Consultation Requirements

See Part A Section 2.2 to cross reference to locations in Draft Reports where information on specific Consultation Requirements can be found

5.1 - Project Location

Provide comment on the project location with respect to infrastructure and servicing.

5.2 – Project Roads

Provide comment on the proposed project's plans respecting proposed road access.

High Voltage Transmission lines in Local Roads Board Road allowance - Road allowances are designed for hydro distribution lines, sewer, water, gas and telephone not High Voltage lines

Identify any issues and provide recommendations with respect to road access

*High Voltage Transmission lines in Road allowance will hinder any future maintenance and upgrades to existing roads. It could cause safety issues with contractors and general public as maintenance is carried out on the roadways.
all easement for Transmission lines should be outside of Road allowances.*

Provide comment on any proposed Traffic Management Plans

Identify any issues and provide recommendations with respect to the proposed Traffic Management Plans

5.3 – Municipal or Local authority Service Connections

Provide comment on the proposed project plans related to the location of and type of municipal service connections, other than roads.

Identify any issues and provide recommendations with respect to the type of municipal service connections, other than roads.

5.4 – Facility Other

Identify any issues and recommendations with respect to the proposed landscaping design for the facility

Provide comment on the proposed project plans for emergency management procedures / safety protocols.

5.4 – Facility Other (continued)

Identify any issues and recommendations with respect to the proposed emergency management procedures / safety protocols.

Identify any issues and recommendations with respect to any Easements or Restrictive Covenants associated with the Project Location

5.5 Project Construction

Identify any issues and recommendations with respect to the proposed rehabilitation of any temporary disturbance areas and any municipal or local authority infrastructure that could be damaged during construction.

Local Roads Road roads are maintained to medium weight traffic and are not designed for heavy loads - Heavy loads are restricted to frozen conditions. All damage to roadway surfaces and Infrastructure will be billed to the proponent.

Identify any issues and recommendations with respect to the proposed location of fire hydrants and connections to existing drainage, water works and sanitary sewers

Identify any issues and recommendations with respect to the proposed location of buried kiosks and above-grade utility vaults

Identify any issues and recommendations with respect to the proposed location of existing and proposed gas and electricity lines and connections

5.5 Project Construction *(continued)*

Provide comment on the proposed project plans with respect to Building Code permits and licenses.

Identify any issues and recommendations related to the identification of any significant natural features and water bodies within the municipality or territory.

Identify any issues and recommendations related to the identification any archaeological resource or heritage resource.

February 15, 2013

Evelyn Shier
Secretary-Treasurer
Hunta Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, ON P0L 1C0

Dear Ms. Shier:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

The Cochrane Solar Project will be located on the same properties as the Abitibi, Empire and Martin's Meadows Solar Projects and will have a nominal capacity of 30 MW (AC). This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09.

Please note that there are no changes to the Project location required as a result of this change.

Revised Renewable Energy Approval supporting documents for the Cochrane Solar Project will be available online at <http://cochrane.northlandpower.ca>. The former Project websites (abibi.northlandpower.ca, empire.northlandpower.ca and martinsmeadows.northlandpower.ca) have been redirected to this website.



We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power

Appendix H4

Frederickhouse Local Roads Board

May 16, 2012

Denis Lalande, Secretary Treasurer
Frederickhouse Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, On P0L 1C0

Dear Mr. Lalande

**Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project -
REA Reports for Review**

Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process. The Projects are located within the Town of Cochrane, however the transmission line for the Project passes through areas under your jurisdiction.

Enclosed are copies of the complete set of REA documents for each Project, including Project Description Report, Construction Plan Report, Design and Operation Report, Decommissioning Plan Report, Natural Heritage Assessment Reports, Water Body Assessment Reports, Stage 1 and 2 Archaeological Assessment Reports and Noise Assessment Report, as well as the Municipal Consultation Form. In accordance with the Ministry of Environment (MOE)'s requirements, these documents are provided to the Frederickhouse Local Roads Board for review. We request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

A public meeting is also to occur in the future, for which you will receive additional notification.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power



Attachment(s)/Enclosure:

Draft Project Description Report – Abitibi Solar Project
Draft Construction Plan Report – Abitibi Solar Project
Draft Design and Operations Report – Abitibi Solar Project
Draft Decommissioning Plan Report – Abitibi Solar Project
Stage 1 and 2 Archaeological Assessment Report – Abitibi Solar Project
Draft Natural Heritage Assessment Reports – Abitibi Solar Project
Draft Water Body Assessment Reports – Abitibi Solar Project
Draft Noise Assessment Report – Abitibi Solar Project
Municipal Consultation Form – Abitibi Solar Project

Draft Project Description Report – Empire Solar Project
Draft Construction Plan Report – Empire Solar Project
Draft Design and Operations Report – Empire Solar Project
Draft Decommissioning Plan Report – Empire Solar Project
Stage 1 and 2 Archaeological Assessment Report – Empire Solar Project
Draft Natural Heritage Assessment Reports – Empire Solar Project
Draft Water Body Assessment Reports – Empire Solar Project
Draft Noise Assessment Report – Empire Solar Project
Municipal Consultation Form – Empire Solar Project

Draft Project Description Report – Martin's Meadows Solar Project
Draft Construction Plan Report – Martin's Meadows Solar Project
Draft Design and Operations Report – Martin's Meadows Solar Project
Draft Decommissioning Plan Report – Martin's Meadows Solar Project
Stage 1 and 2 Archaeological Assessment Report – Martin's Meadows Solar Project
Draft Natural Heritage Assessment Reports – Martin's Meadows Solar Project
Draft Water Body Assessment Reports – Martin's Meadows Solar Project
Draft Noise Assessment Report – Martin's Meadows Solar Project
Municipal Consultation Form – Martin's Meadows Solar Project

Stage 1 and 2 Archaeological Assessment Report – 115kV Transmission Line

June 8, 2012

Denis Lalande, Secretary Treasurer
Frederickhouse Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, On P0L 1C0

Dear Mr. Lalande

Subject: Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project - REA Reports for Review

As you are aware, Northland Power Solar Abitibi L.P., Northland Power Solar Empire L.P. and Northland Power Solar Martin's Meadows L.P. are proposing to develop three 10-MW solar photovoltaic projects titled Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project, respectively. Northland has commenced with the Renewable Energy Approval (REA) process, as required, and described in Ontario Regulation 359/09 under the *Environmental Protection Act*. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process. The Projects are located within the Town of Cochrane, however the transmission line for the Project passes through areas under your jurisdiction.

Enclosed are copies of the Executive Summaries that accompany the set of REA documents provided previously with a letter dated May 16, 2012. As previously stated, we request that you provide any comments you may have and provide the completed Municipal Consultation Form by the end of the 90-day review period.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200 or smale@hatch.ca.

Sincerely,



Sean K. Male, M.Sc. - REA Coordinator
SKM:mg

cc: Mike Lord, Northland Power
Carol-Ann Fletcher, Northland Power

Attachment(s)/Enclosure:

Draft Executive Summary – Abitibi Solar Project
Draft Executive Summary – Empire Solar Project
Draft Executive Summary – Martin's Meadows Solar Project



September 18, 2012

Denis Lalande, Secretary Treasurer
Fredrickhouse Local Roads Board
c/o Heavener's Variety
249 5th Street
Cochrane, ON P0L 1C0

Dear Mr. Lalande:

Subject: Notice of Public Meeting - Abitibi, Empire, Martin's Meadows and Long Lake Solar Projects

Northland Power is proposing to construct four solar projects in northeastern Ontario; three in the Town of Cochrane, just southeast of the community of Genier, and a fourth near the community of Hunta. The proposed projects are named the Abitibi Solar Project, the Empire Solar Project, the Martin's Meadows Solar Project and the Long Lake Solar Project (the "Projects") and will each have an installed nominal capacity of 10 MW. A 115 kV transmission line will connect these Projects to the provincial electricity distribution network. These Projects require a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act*.

Northland Power is continuing a public consultation program in support of the Projects and has planned a public meeting on Thursday October 4, 2012, as outlined in the enclosed Notice of Public Meeting. This Notice will also be published in *Cochrane Times Post* on Thursday September 20, 2012, and Thursday September 27, 2012. The Public Meeting is being held to provide further information on the proposed 115 kV transmission line associated with the Projects.

As you may be aware, copies of the draft supporting documents were made available on June 21, 2012, at:

- the Town of Cochrane municipal office
- the Hunta Mennonite Church (please contact Robert Landis at 705-272-6306 for a viewing)
- online at the Project websites:
 - ◆ northlandpower.ca/abitibi
 - ◆ northlandpower.ca/empire
 - ◆ northlandpower.ca/martinsmeadows
 - ◆ northlandpower.ca/longlake



Safety • Quality • Sustainability • Innovation

H334844-0000-90-218-0160, Rev. 0

We would appreciate any comments, queries or information you may have that are relevant to the proposed Projects.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male
SKM:mg

Attachment(s)/Enclosure
Notice of Public Meeting – Abitibi, Empire, Martin's Meadows and Long Lake

February 15, 2013

Denis Lalande
Secretary Treasurer
Fredrickhouse Local Roads Board
c/o Heaverner's Variety
249 5th Street
Cochrane, ON P0L 1C0

Dear Mr. Lalande:

**Subject: Notice of Project Change Regarding the originally proposed
Abitibi Solar Project, Empire Solar Project and Martin's Meadow's Solar Project**

As you are aware, Northland Power is proposing to construct three 10 MW (AC) solar projects in the Town of Cochrane, just southeast of the community of Genier. The proposed projects were named the Abitibi Solar Project, Empire Solar Project and Martin's Meadows Solar Project.

As the Projects connect to the electricity grid through a single transmission line, in discussion with the Ontario Ministry of the Environment (MOE), it was determined that the current applications for Renewable Energy Approval will be withdrawn, and a single, combined application will be submitted to the MOE. This combined 30 MW Project will be known as the Cochrane Solar Project.

The Cochrane Solar Project will be located on the same properties as the Abitibi, Empire and Martin's Meadows Solar Projects and will have a nominal capacity of 30 MW (AC). This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09.

Please note that there are no changes to the Project location required as a result of this change.

Revised Renewable Energy Approval supporting documents for the Cochrane Solar Project will be available online at <http://cochrane.northlandpower.ca>. The former Project websites (abibi.northlandpower.ca, empire.northlandpower.ca and martinsmeadows.northlandpower.ca) have been redirected to this website.



We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Sincerely,



Sean K. Male, M.Sc.
REA Coordinator

SKM:mg

Enclosure: Notice of Project Change – Cochrane Solar Project

cc: Rob Miller, Northland Power