

## Carignan, Julie

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**From:** Carignan, Julie  
**Sent:** April-05-17 7:55 PM  
**To:** Carignan, Julie  
**Subject:** RE: Capital Power - Halkirk II Wind Farm Proposal

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**From:** Radars Météo / Weather Radars (EC) [<mailto:ec.radarsmeteo-weatheradars.ec@canada.ca>]  
**Sent:** Friday, February 17, 2017 7:01 AM  
**To:** Jeff Sansom <[jsansom@capitalpower.com](mailto:jsansom@capitalpower.com)>  
**Cc:** Wilhelm Danek <[wdanek@capitalpower.com](mailto:wdanek@capitalpower.com)>; Hogue, Richard (EC) <[richard.hogue@canada.ca](mailto:richard.hogue@canada.ca)>; Radars Météo / Weather Radars (EC) <[ec.radarsmeteo-weatheradars.ec@canada.ca](mailto:ec.radarsmeteo-weatheradars.ec@canada.ca)>; Young, Jim (EC) <[jim.young@canada.ca](mailto:jim.young@canada.ca)>  
**Subject:** RE: Capital Power - Halkirk II Wind Farm Proposal

### Notice: External Email

Dear Mr. Jeff Sansom,

Thank you for contacting the Meteorological Service of Canada, a branch of Environment and Climate Change Canada, regarding your wind energy intentions.

Our preliminary assessment of the information provided to us via e-mail on February 16, 2017 indicates that any potential interference that may be created by the Halkirk II wind farm, located approximately 12 km northeast of Halkirk, Alberta will not be severe. Although we would prefer our radar view to be interference free, this is not always reasonable. As a consequence, we do not have strong objections to the current proposal.

If your plans are modified in any manner (e.g. number of turbines, height, placement or materials) this analysis would no longer be valid. An updated analysis must be conducted.

Please contact us at: [ec.radarsmeteo-weatheradars.ec@canada.ca](mailto:ec.radarsmeteo-weatheradars.ec@canada.ca)

Thank you for your ongoing cooperation and we wish you success.

Best Regards,

Ingrid Wong  
Junior Physical Scientist, Meteorological Service of Canada  
Environment and Climate Change Canada / Government of Canada  
[ingrid.wong@canada.ca](mailto:ingrid.wong@canada.ca) / Tel: +1 416-739-4508

Scientifique junior, Service météorologique du Canada  
Environnement et Changement climatique Canada / Gouvernement du Canada  
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**From:** Jeff Sansom [<mailto:jsansom@capitalpower.com>]  
**Sent:** February 16, 2017 1:21 PM  
**To:** Radars Météo / Weather Radars (EC)

**Cc:** Wilhelm Danek; Hogue, Richard (EC)

**Subject:** RE: Capital Power - Halkirk II Wind Farm Proposal

As requested by Environment Canada, Capital Power respectively resubmits to Environment Canada (EC) updated information regarding its proposed H2 Wind Project for EC's review and updated analysis. The Halkirk 2 Wind Project is located within the County of Paintearth approximately 12 kilometres (km) northeast of Halkirk, Alberta. The updated Project design consists of 74 Vestas V110 2-megawatt (MW) wind turbines, for a total installed nominal nameplate capacity of 148 MW. The Project also includes access roads, an underground electrical collector system, and a substation. The hub height of the Vestas V110 model selected is 95 metres with a blade diameter of 110 metres for a total structure height of 150 metres. This is the same overall height (150 m) provided in CP's previous submission to EC. Attached is the Multiple Obstacle Wind Form (spreadsheet) showing the geographical coordinates and total height of each turbine. In addition, attached is a figure also submitted to Transport Canada showing the overall design layout for the Project indicating which turbines have been proposed to be lit as per Canadian Aviation Regulations - Standard 621.

Capital Power would appreciate EC's response to its submission by March 15, 2017, if possible, as it intends to file its Rule 007 Facility Application to the Alberta Utilities Commission by the end of March and would like to include EC's response as part of this submission. Should you have any comments, questions, or concerns with the submission, please contact me.

**Jeff Sansom | Senior HSE Advisor**

**Capital Power**

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**From:** Radars Météo / Weather Radars (EC) [<mailto:ec.radarsmeteo-weatheradars.ec@canada.ca>]

**Sent:** Friday, July 15, 2016 12:31 PM

**To:** Jeff Sansom <[jsansom@capitalpower.com](mailto:jsansom@capitalpower.com)>

**Cc:** Wilhelm Danek <[wdanek@capitalpower.com](mailto:wdanek@capitalpower.com)>; Radars Météo / Weather Radars (EC) <[ec.radarsmeteo-weatheradars.ec@canada.ca](mailto:ec.radarsmeteo-weatheradars.ec@canada.ca)>; Hogue, Richard (EC) <[richard.hogue@canada.ca](mailto:richard.hogue@canada.ca)>

**Subject:** RE: Capital Power - Halkirk II Wind Farm Proposal

**Notice: External Email**

Dear Mr. Jeff Sansom,

Thank you for contacting the Meteorological Service of Canada, a branch of Environment and Climate Change Canada, regarding your wind energy intentions.

Our preliminary assessment of the information provided to us via *e-mail* on May 20, 2016 indicates that any potential interference that may be created by the Halkirk II Wind Farm near the Village of Halkirk, Alberta will not be severe.

Although we would prefer our radar view to be interference free, this is not always reasonable. As a consequence, we do not have strong objections to the current proposal.

If your plans are modified in any manner (e.g. number of turbines, height, placement or materials) this analysis would no longer be valid. An updated analysis must be conducted.

Please contact us at: [ec.radarsmeteo-weatheradars.ec@canada.ca](mailto:ec.radarsmeteo-weatheradars.ec@canada.ca)

Thank you for your ongoing cooperation and we wish you success.

Best Regards,

**Jim M.C. Young**

Science Liaison, Meteorological Service of Canada  
Environment & Climate Change Canada / Government of Canada

Liaison de la science, Service météorologique du Canada  
Environnement et Changement climatique Canada / Gouvernement du Canada

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**From:** Jeff Sansom [<mailto:jsansom@capitalpower.com>]

**Sent:** May 20, 2016 1:04 PM

**To:** Radars Météo / Weather Radars (EC)

**Cc:** Wilhelm Danek

**Subject:** Capital Power - Halkirk II Wind Farm Proposal

Capital Power respectfully submits to Environment Canada (EC) four geographical coordinates representing the four corners of its proposed Project Area for the Halkirk II Wind Project (see attachment). The coordinates are in NAD 83 format. The Project is located approximately 13 kilometres north of the Village of Halkirk, Alberta. Capital Power is in the preliminary planning and design phase of the Project and at this time has not confirmed a final number of wind turbines and developed a final design layout for the Project. The Project will likely consist of between 50-60 wind turbines each with a base diameter of approximately 4 metres. Notwithstanding, Capital Power provides this information to EC, so it can conduct an initial review of the proposed Project Area to determine if locating a windfarm in within the area would pose any potential concerns for EC's weather radars. Understanding any potential concerns from EC as soon as possible would be most beneficial to Capital Power. I have also provided the heights associated with a potential turbine model that might be selected for the Project (see attachment). These details assume a conservative scenario based on the selection of the tallest wind turbine generator (i.e., combination of nacelle and rotor diameter). If you have any questions or require further information, please call me.

**Jeff Sansom | Senior Environmental Advisor**

**Environment Services**

**Capital Power**

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