



Modification Document – Proposed On-Site Fuel Storage

Northland Power McCann L.P.

July 16, 2018

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1.0 Introduction

The McCann Solar Project (“the Project”) was developed in 2012 by Northland Power Inc. on behalf of Northland Power Solar McCann L.P. (“Northland”) under Renewable Energy Approval Number 5636-8RAM88 on February 29, 2012.

Since beginning commercial operation, a need for on-site fuel storage has been identified that was not contemplated during the development of the project. Heavy snow accumulation on the solar panels during the winter months has had significant negative impact on the facility’s production levels and as a result Northland will utilize mechanical snow removal technology at the Project site to mitigate further impacts to performance. In order to operate the proposed snow removal equipment a small volume of diesel fuel is required to be stored on-site so Northland plans to install a fuel tank prior to the winter of 2018-2019.

The tank is to be installed and operated so that it is in compliance with the MOECC’s Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities as well applicable Technical Standards and Safety Association (TSSA) regulations. A site plan depicting the proposed installation of the tank can be found in appendix A.

This report summarizes the proposed changes to the project that necessitate an amendment of the REA. This includes the rationale for the change and will identify amendments to be made to the REA’s supporting documents if necessary.

2.0 Proposed Project Change

Appendix A contains a site plan drawing indicating the installation location of the proposed fuel tank.

2.1 Change

Installation of a small fuel storage tank at the Project site.

2.2 Rational for Change

Storage of diesel is required on-site to fuel maintenance equipment. The need for on-site storage of fuel was not contemplated during the development of the Project.

2.3 Addition Environmental Risks and Mitigation

The risk of releasing diesel fuel to the natural environment is mitigated by the double-walled design of the proposed fuel tank which is design to the latest version of CAN/ULC-601. The tank will be installed and operated in accordance with the MOECC's Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities as well as the applicable TSSA regulations for liquid fuel storage.

3.0 Summary of Revisions to REA Supporting Documents

This section addresses amendments to the supporting documents submitted with the REA application necessitated by the changes proposed in this document.

3.1 Construction Report

No material changes. Existing project infrastructure will be utilized to access fuel tank location.

3.2 Design and Operation Report

| Page | Section | Original Text | Amended Text |
|------|---------|----------------|---|
| 10 | 3.2.6 | Not Applicable | On-Site Fuel Storage A fuel storage tank may be installed at the Project site to facilitate the operation of maintenance related equipment. The fuel storage tank will be installed in accordance with Ministry of Environment and Climate Change's Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities as well as applicable TSSA regulations and any other applicable legislation, regulations, standards, codes, or practices. |

3.4 Decommissioning Report

No material changes.

3.5 Heritage Assessment Report

No material changes.

3.6 Project Description Report

No material changes.

3.7 Protected Properties Assessment

No material changes.

3.8 Water Assessment Report

No material changes.

3.9 Natural Heritage Assessment and Environmental Impact Study

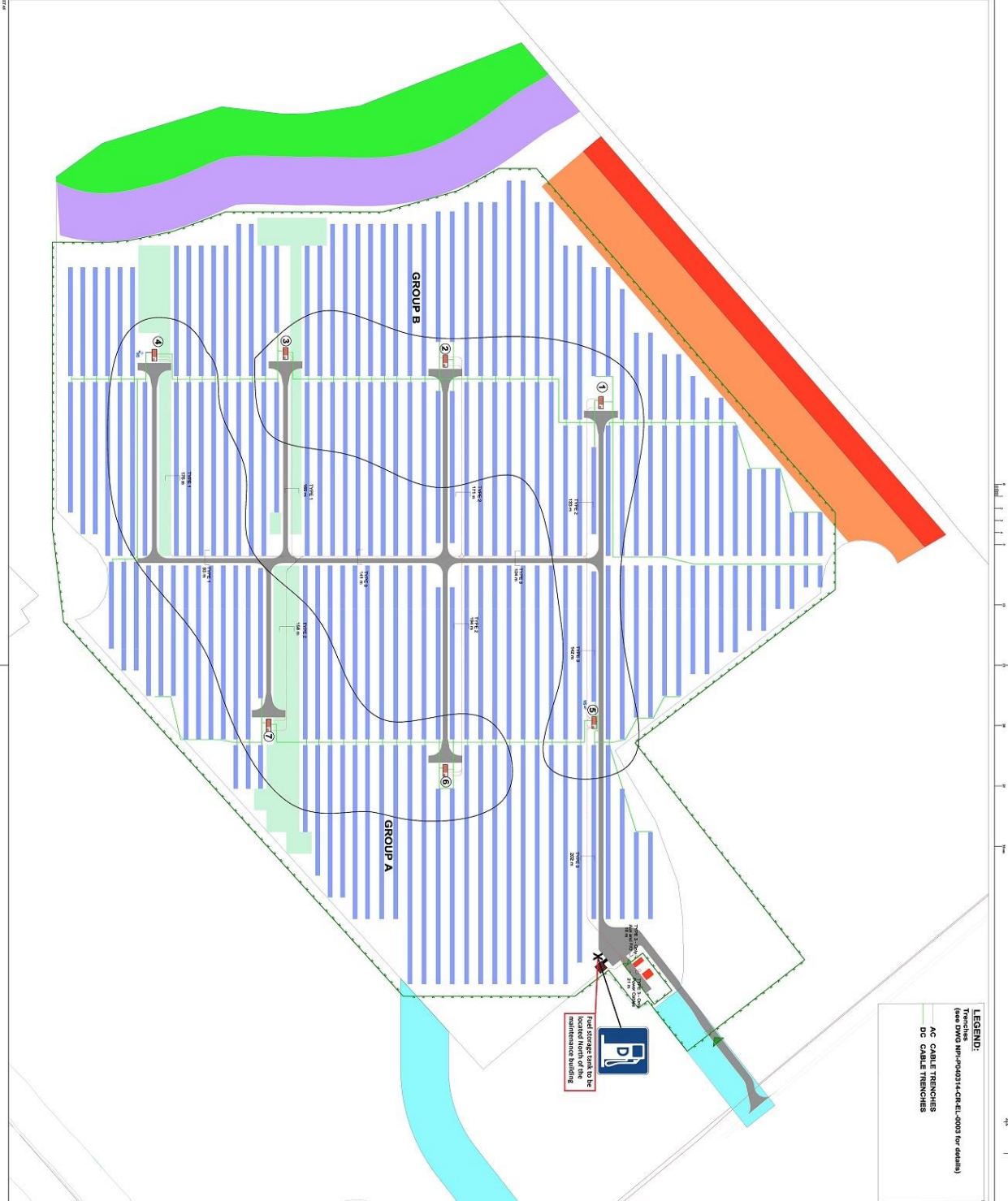
No material changes.

3.10 Noise Assessment Study Report

No material changes. No noise emitting equipment will be installed or moved as a result of the changes proposed in the document.

Appendix A

Site Plan



LEGEND:
 (See DWG NPI-P046314-CR-EL-0003 for details)
 AC CABLE TRENCHES
 DC CABLE TRENCHES

1. THIS DRAWING IS THE PROPERTY OF DESSAU SOLAR AND SHALL REMAIN THE PROPERTY OF DESSAU SOLAR. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DESSAU SOLAR.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL FIELD DATA AND SURVEY INFORMATION.

4. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE PROJECT MANAGER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.

6. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE PROJECT MANAGER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE COVERAGE.

AS BUILT
 BASED ON INFORMATION
 PROVIDED BY THE
 CONTRACTOR ON
 JULY 16, 2014

- REFERENCES:**
1. DESSAU SOLAR PROJECT MANUAL
 2. DESSAU SOLAR PROJECT SPECIFICATIONS
 3. DESSAU SOLAR PROJECT SITE PLAN
 4. DESSAU SOLAR PROJECT ELECTRICAL SINGLE LINE DIAGRAM
 5. DESSAU SOLAR PROJECT ELECTRICAL PANEL SCHEDULE
 6. DESSAU SOLAR PROJECT ELECTRICAL PANEL SCHEDULE
 7. DESSAU SOLAR PROJECT ELECTRICAL PANEL SCHEDULE
 8. DESSAU SOLAR PROJECT ELECTRICAL PANEL SCHEDULE
 9. DESSAU SOLAR PROJECT ELECTRICAL PANEL SCHEDULE
 10. DESSAU SOLAR PROJECT ELECTRICAL PANEL SCHEDULE

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 Date: CR EL 0001 11
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