Informative Note: 2-014
Electrical Plan Review Process and Requirements

Issue Date: September 4, 2019

Based on Manitoba Electrical Code (2018) 13th edition

This informative note is to help the installer submit a complete package of electrical plans and additional supporting information to Manitoba Hydro's electrical plan examiner for review.

The plan examiner reviews the plans and supporting information for compliance with the Manitoba Electrical Code, and following acceptance of the compliant electrical plans authorizes the electrical work to commence.

Manitoba Hydro's electrical plan reviews are performed on a first-in first-out basis. Ensuring you have included all of the required information in your first submission package will reduce any potential delays.

Please use the following checklist to confirm your plan submission includes all required information.

Submit your completed package to the commercial electrical inspector in your area.

Every effort has been made to ensure the accuracy of the information being provided. However, in the event of a discrepancy between this informative note and the governing Manitoba Electrical Code, The Manitoba Electrical Code shall take precedence.

Remember, the Manitoba Electrical Code is constantly being updated. Be sure to familiarize yourself with the latest code requirements before you begin your installation.

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Plan Review Checklist

- All Drawings are stamped by an engineer registered to practice in Manitoba.
- Email address of the responsible engineer included.
- Latest revision on the drawings are listed as Issued for Construction.
- A short description of scope of work is included.
- If this is an existing site, changes are clouded or otherwise distinguished from existing installation.
- Single Line Drawing included (showing everything upstream to MB Hydro point of connection)
- Single Line Drawing includes conductor sizes and types.
- Single Line Drawing includes main breaker and panel sizes.
- All trip settings included for adjustable trip breakers.
- Any feeders over 50m must indicate approximate length for Voltage Drop calculation.
- Load Calculation included.
- Transfer switches ratings are shown including open or closed transition.
- Generator ratings are shown including kVA rating.

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Hazardous, Wet or Corrosive Areas

- Hazardous Classification shown on the drawings.
- Wet or corrosive areas shown on the drawing.
- All areas that are not hazardous, wet or corrosive are considered "*Ordinary*" locations.
- Classification is done using the Zone system only (unless an existing Class and Div system is being used on site).
- Wiring methods and Equipment types are indicated on drawing.

  (A note indicating "*wiring method must be to code*" is not enough. Be specific in how you will comply with the Manitoba Electrical Code.

High Voltage (Over 750V)

- Single Line drawings include trip settings for overcurrent protection, and fuse sizes.
- Grounding detail included.
- Clearances shown.
- Shop drawings for all HV equipment and cables.
- Interlock protection scheme included.
- Fault currents. Both primary and secondary faults currents.

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Patient Care

- Extent of Patient Care areas shown .
- Bonding details indicated.

Available in accessible formats upon request.

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