



CONNECTION ASSESSMENT & APPROVAL PROCESS

ASSESSMENT SUMMARY

Applicant: General Motors Inc.

Project: Remove Facilities at General Motors CTS

CAA ID No. 2002-EX041

***Long Term Forecasts & Assessments Department
Consistent Information Set Department***

Date: 6th June 2002

ASSESSMENT SUMMARY

GENERAL MOTORS Inc.

GENERAL MOTORS CTS: St Catharines - Remove Facilities

1.0 GENERAL DESCRIPTION

The General Motors CTS in St. Catharines (NF402) is connected via a double-circuit line tap to 115kV circuit Q10M from Beck GS No.1 and to 115kV circuit M11S from Glendale TS.

During 2001, the two step-down transformers were disconnected from the system by opening and locking-out their respective HV disconnect switches and LV breakers as shown in Diagram 1. The GM plant has since been supplied at 13.8kV from Glendale TS.

However, the tie-breaker D1D2 at the GM CTS was retained in-service to provide a connection between circuits Q10M and M11S until protection changes could be completed by Hydro One.

These protection changes are in progress and will be completed during this current month of June. On completion of this work it is proposed to isolate the tap and remove the tie-breaker from operation.

The scheduled in-service date for the work is July 8th 2002.

2.0 PROPOSED WORK

The proposed work will entail installing new loops at the tap position to provide a direct connection between Beck GS No. 1 and Glendale TS and then removing the loops from circuits Q10M and M11S to isolate the tap to the General Motors CTS.

3.0 ASSESSMENT

The existing tap to the GM CTS is approximately 1.37km in length, while the length of circuit M11S from the tap-point to Glendale TS is approximately 0.98km. Consequently, removing the tap to the GM CTS and establishing a direct connection between Beck GS No. 1 and Glendale TS will result in a net reduction in the overall length of the connection of 1.76km.

The proposed changes at the General Motors CTS are therefore expected to have a small positive impact on the reliability of the IMO-controlled grid.

4.0 NOTIFICATION OF APPROVAL

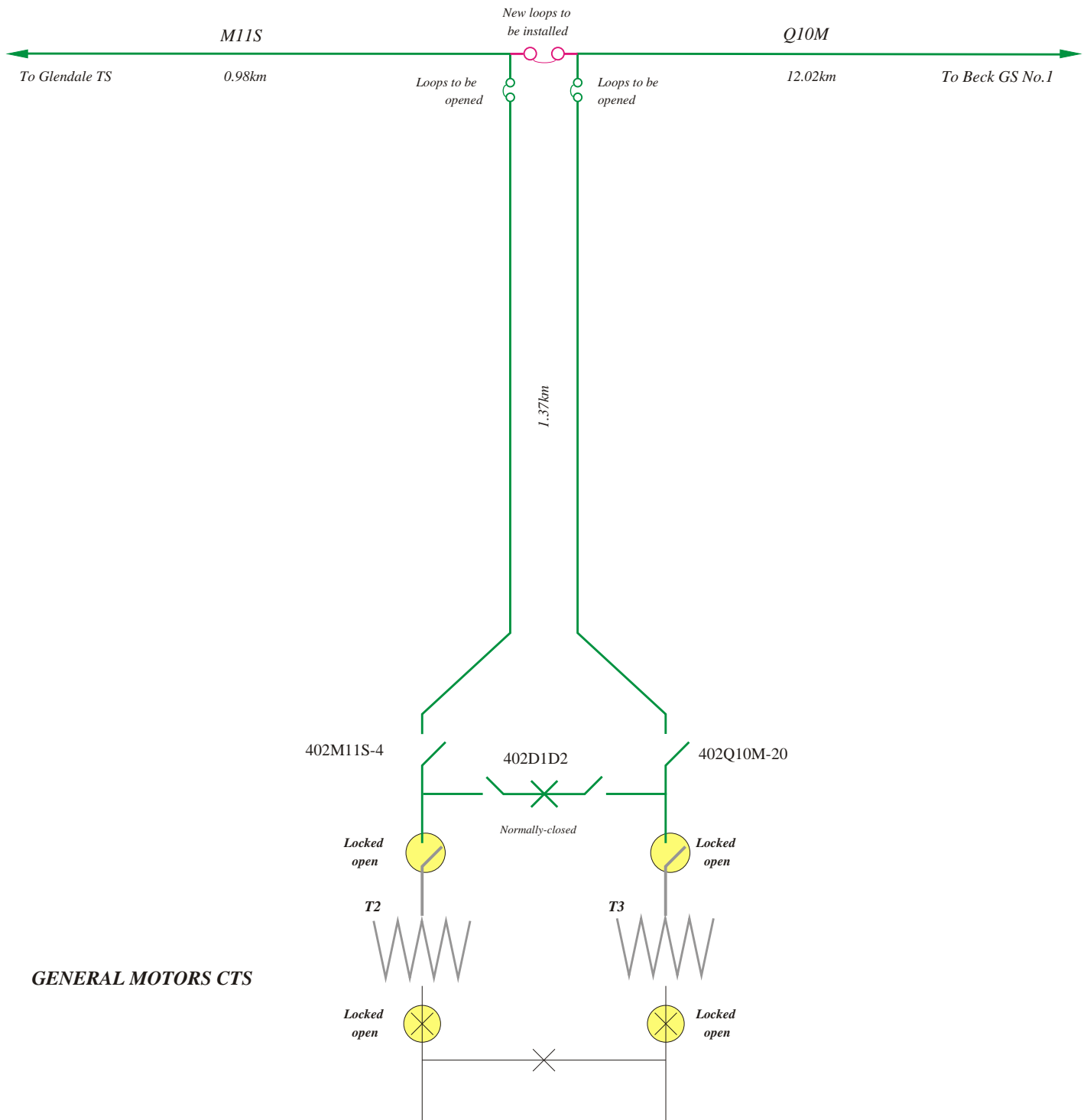
It is therefore recommended that Notifications of Approval of the Connection Proposal be issued to both General Motors Inc. and Hydro One Networks Inc. for their respective portions of the work.

Hydro One Network Inc.

- Install new protection facilities
- Install new loops to interconnect circuits Q10M & M11S
- Open/remove the loops for the two taps to the GM CTS (NF402)

General Motors Inc.

- Remove breaker D1D2 at the GM CTS from service



GENERAL MOTORS CTS

**Proposed changes at General Motors CTS
St Catharines**

DIAGRAM 1