

CONNECTION ASSESSMENT & APPROVAL PROCESS

PRELIMINARY ASSESSMENT REPORT: Addendum

For Hydro One's Proposal to Quarter Terauley TS

CAA ID No. 2001-050

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

Date: 5th February 2003

Addendum to the Preliminary Assessment Report for the Proposal to Quarter Terauley TS

Equipment Details & Schedule for the Installation of the New Facilities at Terauley TS

Introduction

This Addendum to the PA Report provides further details of the equipment to be installed; its planned mode of operation; together with the present schedule for completing the work.

Equipment to be Installed at Terauley TS

Under the plan to Quarter Terauley TS, the following equipment is to be installed (Diagram 3, extracted from the main Report, shows the equipment designations) :

<i>Circuit-Switchers</i>			
	<i>Designations</i>	<i>Circuit</i>	<i>Ratings</i>
Line Disconnect Switchers	C5E-36	Section of circuit C5E to Esplanade TS	Southern States Inc. Model CSH-B 145kV 1200A 40kA (1 second)
	C5E-49	Section of circuit C5E to Cecil TS	
	C7E-36	Section of circuit C7E to Esplanade TS	
	C7E-49	Section of circuit C7E to Cecil TS	
Transformer Disconnect Switchers	T1-H1	Step-down Transformer T1	
	T2-H2	Step-down Transformer T2	
	T3-H3	Step-down Transformer T3	
	T4-H4	Step-down Transformer T4	
Bus-tie Switchers	H1-H2	Busbars associated with circuit C7E	S&C Electric Model 2020 145kV 1200A 40kA (1 second)
	H3-H4	Busbars associated with circuit C5E	
<i>Grounding Switches</i>			
	<i>Designations</i>	<i>Circuit</i>	<i>Ratings</i>
Grounding Switches	C5E-36G	Section of circuit C5E to Esplanade TS	S&C Electric 145kV 1200A
	C7E-36G	Section of circuit C7E to Esplanade TS	
	C5E-49G	Section of circuit C5E to Cecil TS	Southern States Inc. 145kV 1200A
	C7E-49G	Section of circuit C7E to Cecil TS	

<i>Surge Arresters</i>			
	<i>Designations</i>	<i>Location</i>	<i>Ratings</i>
HV	T1SA1	On terminal of circuit C7E to Esplanade TS	ABB - Metal Oxide Gapless 115kV continuous 144kV rated Switching surge: 288kV Front-of-Wave: 369kV
	T2SA1	On terminal of circuit C7E to Cecil TS	
	T3SA1	On terminal of circuit C5E to Cecil TS	
	T4SA1	On terminal of circuit C5E to Esplanade TS	
LV	T1SA2 & T1SA3	On the two LV windings of transformer T1	Ohio Brass - Polymeric 12.7kV continuous 15kV rated Switching surge 29.7kV
	T2SA2 & T2SA3	On the two LV windings of transformer T2	
	T3SA2 & T3SA3	On the two LV windings of transformer T3	
	T4SA2 & T4SA3	On the two LV windings of transformer T4	

Intended Mode of Operation for the Circuit Switchers

All of the circuit-switchers that are to be installed at Terauley TS are to be used only for routine switching and not for fault clearance. Their fault interrupting capabilities, which are 20kA and 25kA for the Southern States and S&C devices, respectively, will therefore not be an issue even though the fault levels at Terauley are expected to exceed these values under certain operational conditions.

However, the one second rating of 40kA will be adequate for these devices to withstand the maximum fault current on the 115kV system until clearance of the fault can be performed via the main circuit breakers at Cecil TS or Esplanade TS.

Proposed Schedule

The proposed schedule for undertaking the work at Terauley (subject to obtaining the required outages) is as follows:

	<i>Completion Date</i>	<i>Description of Work</i>
1.	6 th February 2003	Complete the removal of the existing bus-tie disconnect switch H1-H2
2.	19 th March 2003	Complete the installation of a new circuit switcher H3-H4. This results in the step-down transformers T3 & T4 being associated with the following sections of circuit C5E: <ul style="list-style-type: none">• T3 with the section supplied from Cecil TS and• T4 with the remaining section supplied from Esplanade TS.
		Complete the replacement of the existing HV rod-gaps on transformers T3 & T4 with surge arresters (circuit C5E).
3.	4 th July 2003	Complete the installation of a new circuit switcher H1-H2. This results in the step-down transformers T1 & T2 being associated with the following sections of circuit C7E: <ul style="list-style-type: none">• T1 with the section supplied from Esplanade TS and• T2 with the remaining section supplied from Cecil TS.
		Complete the replacement of the existing HV rod-gaps on transformers T1 & T2 with surge arresters (circuit C7E).
4.	20 th December 2003	Complete the installation of LV surge arresters.

Notification of Approval to Connect

Since there has been no material change in the proposal as originally submitted, the Notification of Approval to Connect, issued on 25th March 2002, remains valid.

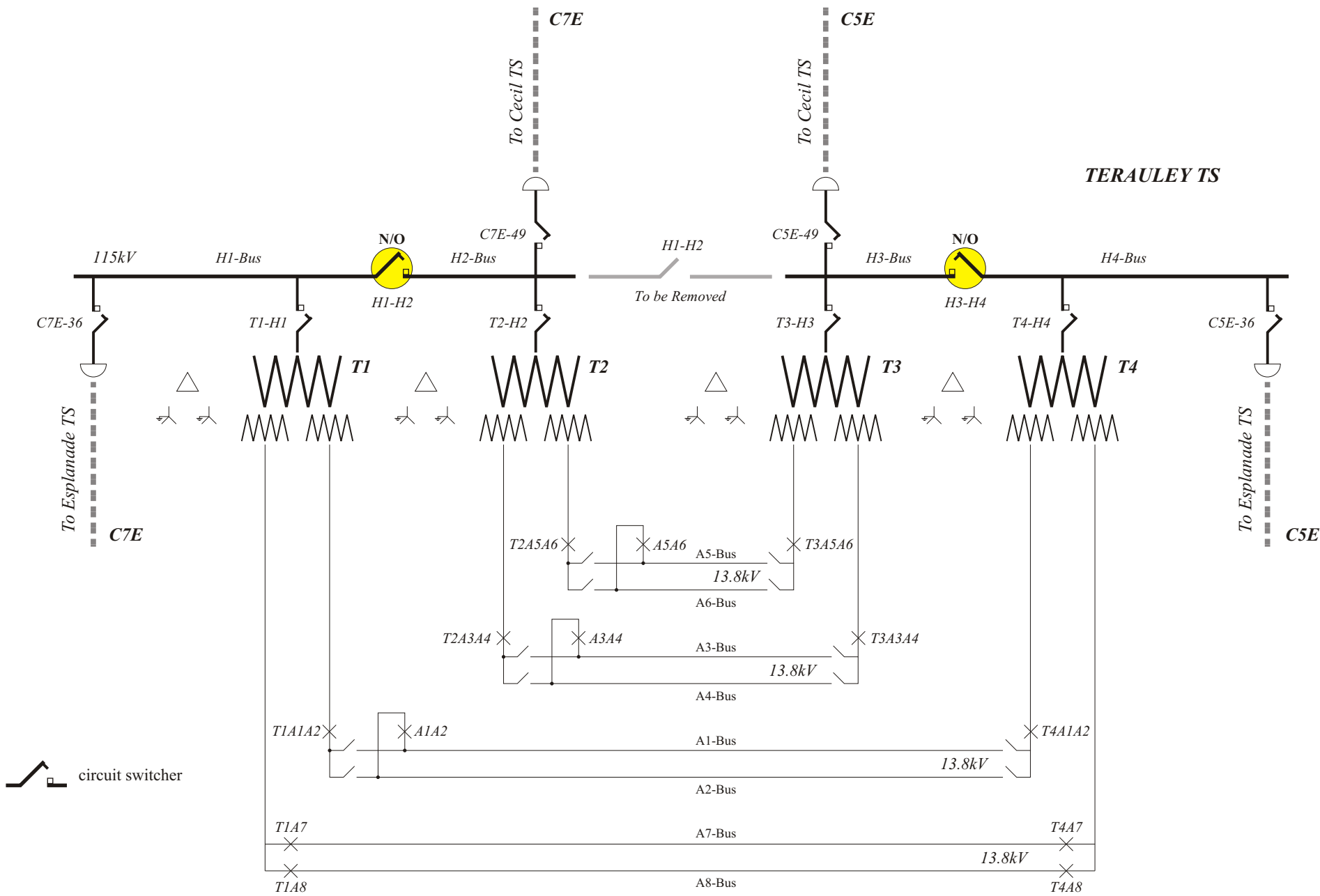


DIAGRAM 3

12th March 2002
 Revised: 2nd February 2003