

CI# 39471

TRE6 – U&U PA Damper Replacement

June 29, 2010

NOVA SCOTIA
POWER
An Emera Company

UARB APPROVAL SHEET

Project Title: TRE6 - (U&U) PA Damper Replacement

CI Number: 39471

☒ Capital Project Authorization

Head Office Use:

☐ ATO

Project Number:

☐ Final Cost

Date: April 30, 2010

Location:

Division:

Expenditure Profile

Schedule

YEAR	Budget Estimate	Project Estimate		
2010		603,418	Estimated Start Date	2010-04
			Estimated In-Service Date	2010-05
			Estimated Close Date	2010-05
Total	\$0	\$603,418		

COMMENTS

This item is submitted pursuant to section 35

Submitted on behalf of NOVA SCOTIA POWER INCORPORATED

Approved on behalf of NOVA SCOTIA UTILITY AND REVIEW BOARD

Authorized Signatory

DATE

DATE

Mark Savory

VP Technical and Construction

Mark Savory May 7/2010

CI Number : 39471

- TRE6 - PA Damper Replacements

Project Number

Parent CI Number :

-

Cost Centre : 345

- 345-Trenton unit 6 Capital

Budget Version - 2010 03/09 Forecast

	Forecast
Start :	04/01/2010
Operational :	05/15/2010
Final Cost :	05/30/2010
2010	\$603,418.11
Total :	\$603,418.11
Original Cost :	\$430,000.00

The scope of work for this project includes replacement of the 6A & 6B hot air control dampers, 6A & 6B primary air shutoff (PASO) dampers, 6A & 6B capacity dampers and the duct work adjacent to the dampers. The dampers are located in the primary air (PA) duct work to 6A & 6B coal pulverizers.

Summary of Related CI's +/- 2 years

No projects in 2008,2009,2010,2011 and 2012

CI Number : 39471

- TRE6 - PA Damper Replacements

Project Number

Parent CI Number :

-

Approved Date

Cost Centre : 345

- 345-Trenton unit 6 Capital

Budget Version 2010 03/09 Forecast

Capital Item Accounts

Acct	Actv	Account	Activity	Forecast Amount	Amount	Variance
094		094 - Interest Capitalized		3,976	0	3,976
095		095-Thermal Overtime Labour AO		662	0	662
095		095-Thermal & Hydro Contracts AO		23,805	0	23,805
095		095-Thermal Regular Labour AO		4,103	0	4,103
095		095-Thermal Term Labour AO		1,191	0	1,191
001	013	001 - THERMAL Regular Labour	013 - SGP - Boiler	5,500	0	5,500
002	013	002 - THERMAL Overtime Labour	013 - SGP - Boiler	5,000	0	5,000
004	013	004 - THERMAL Term Labour	013 - SGP - Boiler	4,500	0	4,500
012	013	012 - Materials	013 - SGP - Boiler	166,245	0	166,245
013	013	013 - POWER PRODUCTION Contracts	013 - SGP - Boiler	363,436	0	363,436
001	087	001 - THERMAL Regular Labour	087 Field Super.& Ops.	10,000	0	10,000
028	087	028 - Consulting	087 Field Super.& Ops.	15,000	0	15,000
Total Cost:				603,418	0	603,418
Original Cost:				430,000		

CI Number : 39471 - TRE6 - (U&U) PA Damper Replacements
Parent CI Number : -
Cost Centre : 345 - 345-Trenton unit 6 Capital

Project Number

Approved Date

Capital Item Justification

Justification Criteria : Thermal

Sub-Criteria : Maintenance

Name of Report :

Document Location :

Person Responsible :

Why do this project?

A recent inspection confirmed that the primary air (PA) dampers were very difficult to activate with the existing pneumatic drives. Temporary repairs to the dampers allowed the unit to return to service, but the dampers must be replaced. The primary air to each pulverizer serves the dual purpose of drying the coal in the pulverizer to make combustion more efficient and transporting the pulverized coal from the pulverizer to the furnace via coal pipes. The hot & capacity control dampers work in conjunction with the cold PA dampers to provide primary air that is of optimum temperature for pulverized coal drying and conveyance. The Primary Air Shut Off (PASO) dampers are required to provide quick shut off of primary air to the pulverizers in the event of upset conditions as per National Fire Protection Association (NFPA) requirements. This project is required to ensure the PASO dampers are operating safely and effectively and to ensure the operation of the PA dampers optimizes unit efficiency and transportation of pulverized coal.

Why do this project now?

Completing damper replacements during the 2010 planned shutdown is the most cost effective solution, as opposed to taking unplanned unit outages to complete repairs.

Why do this project this way?

Replacement of the dampers is the most practical and cost-effective option.
