

CI 39844

**Removal of Frost Casing on Gulch Surge Tank
U&U**

REDACTED

July 30, 2010

NOVA SCOTIA
POWER
An Emera Company

UARB APPROVAL SHEET

Project Title: **Removal of Frost Casing on Gulch Surge Tank U&U**

CI Number: 39844

☒ Capital Project Authorization

Head Office Use:

☐ ATO

Project Number:

☐ Final Cost

Date: July 30, 2010

Location:			Division:	
Expenditure Profile			Schedule	
YEAR	Budget Estimate	Project Estimate		
2010		454,604	Estimated Start Date	2010-08
			Estimated In-Service Date	2010-10
			Estimated Close Date	2010-10
Total	\$0	\$454,604		

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

July 24/2010

Project Number

- Removal of Frost Casing on Gulch Surge Tank U&U

CI Number : 39844

Parent CI Number :

Budget Version - 2010 06/06 Forecast

Cost Centre : 410 - 410-Bear River Hydro System

Forecast

Start :	08/15/2010
Operational :	10/01/2010
Final Cost :	10/30/2010
2010	\$454,604.46
Total :	\$454,604.46
Original Cost :	\$0.00

The scope of work for this item includes removal of the deteriorated frost casing on the Gulch surge tank and installation of a bubbler in the surge tank to prevent freezing once the existing casing has been removed. The area surrounding the surge tank is currently cordoned off to restrict all access around the tank.

CI Number : 39844 - Removal of Frost Casing on Gulch Surge Tank U&U Project Number

Parent CI Number : - Approved Date

Cost Centre : 410 - 410-Bear River Hydro System Budget Version 2010 06/06 Forecast

Capital Item Accounts

Acct	Actv	Account	Activity	Forecast Amount	Amount	Variance
001		001 - HYDRO Regular Labour		0	0	0
002		002 - HYDRO Overtime Labour		0	0	0
004		004 - HYDRO Term Labour		0	0	0
012		012 - Materials		0	0	0
013		013 - POWER PRODUCTION Contracts		425,000	0	425,000
028		028 - Consulting		0	0	0
041		041 - Meals & Entertainment		0	0	0
066		066 - Other Goods & Services		0	0	0
094		094 - Interest Capitalized		1,767	0	1,767
095		095-Thermal & Hydro Contracts AO		27,838	0	27,838
Total Cost:				454,604	0	454,604
Original Cost:						

CI Number : 39844 - HYD - Removal of Frost Casing on Gu Project Number
 Parent CI Number : Approved Date
 Cost Centre : 410 - 410-Bear River Hydro System

Capital Item Justification

Justification Criteria : Health & Safety
 Sub-Criteria : Maintenance
 Name of Report :
 Document Location :
 Person Responsible :

Why do this project?

Inspection of the Gulch surge tank in early 2010 indicated that the existing timber frost casing on the Gulch surge tank is deteriorated and is starting to detach from the main structure (per photos attached).

Why do this project now?

Further to the inspection of the surge tank in early 2010, this item was to be included in 2011 ACE item. However, the frost casing has deteriorated faster than anticipated and must therefore be completed in 2010.

The detached pieces of the timber frost casing pose a risk of falling onto the pipeline / penstock below, resulting in damage to the pipeline. In addition, the potential of falling pieces of timber frost casing presents a safety risk that must be mitigated at the earliest opportunity.

Why do this project this way?

Removal of the frost casing and installation of a bubbler in the surge tank to prevent freezing is the standard approach NSPI has taken to upgrade its existing surge tanks when the frost casing has deteriorated. This is the least cost alternative, which is also expected to have low future maintenance expenditures based on past experience with identical systems installed on NSPI's surge tanks.

Function Hydro Generation

CI Number: CI 39844

Project: Removal of Frost Casing on Gulch Surge Tank U&U

Item	Description	Qty	Cost Est	Totals
1	Contracts			
	Frost Casing removal and disposal			①
	Security Fence			②
	Foundation for compressor building		\$5,000	
	Compressor building supply		\$10,000	
	Compressor building erection		\$5,000	
	Compressor supply and installation		\$5,000	
	Consulting		\$12,000	
	Contingency			
	Sub-Total Contracts			\$425,000
2	A/O			
	Contract AO		\$27,838	
	AFUDC		\$1,767	
	Sub-Total A/O Charges			\$29,605
	Total Project Estimate			\$454,605

PROPOSAL EVALUATION "DRAFT"

Gulch Surge Tank Refurbishment Bear River Hydro System, Fundy Hydro

Request for proposal on this work was sent to the following three (3) companies:



On April 21, 2010 closing proposals were received from two (2) companies bith proposals were submitted in two separated envelops, one for technical proposal and one for the commercial/price proposal.

The technical proposals from the two companies were evaluated by Hydro and were considered in good order. The commercial /price proposals (Schedule "C") were opened and the prices are as follows:

2010 Price	Work Item 1 to 4	Item 5 (optional painting)
	①	(Note 1)
	(Note 2)	did not bid
2011 Price	Work Item 1 to 4	Item 5 (optional painting)
		(Note 1)
	(Note 2)	did not bid

Note 1: Extra cost on scaffolding for painting would incur in the event decision on proceeding with the work on Item 5 is not timely.

Note 2: for environment management was treated as a separated pay item By and was included in both 2010 and 2011 sub-total prices for in Schedule "C".

proposes to use rope access to access and execute the removal of the bird dripping on the floor of the frost casing under the surge tank bowl, and the frost casing with manual tools and equipment.

██████ plans to clean up access road to the surge tank on the hill and use all-terrain carrier to transport materials and equipment. Scaffolding around external riser will be used to access to remove the bird drippings and the lower frost casing. Swing stage will be used for the tank frost casing removal.

Both proposals include plan to deal with bird drippings meeting health and safety requirements.

All other work will be performed in standard construction methods.

██████ did not response to the request for the optional painting work (Item No. 5). ██████ on site personnel would be mostly skilled rope access technicians of high hourly rates. i.e. any extra work can trig high cost.



EASTERN FENCE ERECTORS LIMITED

47 TROOP AVE., DARTMOUTH, NOVA SCOTIA, B3B 2A7
Tel: 902-488-2455 Fax: 902-488-3773
www.easternfence.ca

November 10, 2009

NSPI
204 Prince Albert Rd., PO Box 238
Annapolis Royal, NS B0S 1A0

Attn: [REDACTED]

Fax: 837-4759
Phone: 837-4802

Re: Chain Link Fence - Cutch Power House - Bear River

Dear [REDACTED]

We are pleased to submit our quotation to you for the above noted project as follows:

Requirements:

- 7' high industrial grade chain link fence complete with 1' of barbed wire.
- 224' of complete fence complete with one 5' wide single gate and lockable hardware.

Quotation: [REDACTED]

(2)

I trust this meets with your approval. If you have any questions, please feel free to contact the undersigned at the above number. HST extra at 13%.

Regards,

Accepted By:

[REDACTED]

Terms: Net 30 (OAC)

Locating underground utilities, establishing property/fence lines and building permits (if required) are the responsibility of the Owner/General Contractor. Valid for 30 Days.

Quote # 09-3537
/lb





