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Nova Scotia
Utility and Review Board

ORIGINAL

CI# 34602

25kV Feeder Extension Bissett Road

REDACTED

April 30, 2010

NOVA SCOTIA
POWER
An Emera Company

UARB APPROVAL SHEET

Project Title: **25kV Feeder Extension Bissett Road**

CI Number: 34602

☒ 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	1,036,178	1,036,178	Estimated Start Date	2010-06
			Estimated In-Service Date	2010-08
			Estimated Close Date	2010-12
Total	\$1,036,178	\$1,036,178		

COMMENTS

Submitted on behalf of NOVA SCOTIA POWER INCORPORATED

Approved on behalf of NOVA SCOTIA UTILITY AND REVIEW BOARD

M/S 

April 28/2010

Authorized Signatory

DATE

Mark Savory

VP Technical and Construction

DATE

CI Number : 34602

- 25 kV Feeder Extension Bissett Road

Project Number

Parent CI Number :

-

Cost Centre : 800

- 800-Services - Admin.

Budget Version - 2010 ACE Plan (New AFUDC)

Forecast

Start :	04/01/2010
Operational :	07/31/2010
Final Cost :	12/31/2010

2010	\$1,036,177.71
Total :	\$1,036,177.71
Original Cost :	\$115,719.95

This project is to construct a 25kV circuit from East Dartmouth to Eastern Passage via Bissett Road. Work will include construction of a new 3 phase 25kV 336Al line, upgrade the existing single phase lines as well as voltage conversion in the Cow Bay area from 12.5kV to 25kV.

Summary of Related CI's +/- 2 years

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

CI Number : 34602

- 25 kV Feeder Extension Bissett Road

Project Number

Parent CI Number :

-

Approved Date

Cost Centre : 800

- 800-Services - Admin.

Budget Version 2010 ACE Plan (New AFUDC)

Capital Item Accounts

Acct	Actv	Account	Activity	Forecast Amount	Amount	Variance
094		094 - Interest Capitalized		7,386	0	7,386
013	002	013 - COPS Contracts	002 - DP - Land Rights	████████	0	20,500
095	005	095-COPS Contracts AO	005 Indirect Costs	157,196	0	157,196
012	035	012 - Materials	035 - DP - Wood Poles	████████	0	64,142
013	035	013 - COPS Contracts	035 - DP - Wood Poles	████████	0	140,252
098	035	098 - Salvage	035 - DP - Wood Poles	(172)	0	(172)
012	039	012 - Materials	039 - DP - O/H Cond.	████████	0	112,564
013	039	013 - COPS Contracts	039 - DP - O/H Cond.	████████	0	365,289
098	039	098 - Salvage	039 - DP - O/H Cond.	(3,341)	0	(3,341)
012	040	012 - Materials	040 - DP - O/H Cond.Devices	████████	0	9,126
013	040	013 - COPS Contracts	040 - DP - O/H Cond.Devices	████████	0	25,212
098	040	098 - Salvage	040 - DP - O/H Cond.Devices	(194)	0	(194)
012	041	012 - Materials	041 - DP - O/H Line Transf.	████████	0	60,276
013	041	013 - COPS Contracts	041 - DP - O/H Line Transf.	████████	0	42,887
098	041	098 - Salvage	041 - DP - O/H Line Transf.	(18,399)	0	(18,399)
012	050	012 - Materials	050 - DP - Street Lights	████████	0	52
013	050	013 - COPS Contracts	050 - DP - Street Lights	████████	0	9,249
012	052	012 - Materials	052 - DP - Services	████████	0	7,098
013	052	013 - COPS Contracts	052 - DP - Services	████████	0	39,277
098	052	098 - Salvage	052 - DP - Services	(2,223)	0	(2,223)
Total Cost:				1,036,178	0	1,036,178
Original Cost:				115,720		

CI Number : 34602 - 25 kV Feeder Extension Bissett Road
Parent CI Number : -
Cost Centre : 800 - 800-Services - Admin.

Project Number

Approved Date

Capital Item Justification

Justification Criteria : DISTRIBUTION SYSTEM

Sub-Criteria : OVERLOADED EQUIPMENT

Name of Report :

Document Location :

Person Responsible :

Why do this project?

This capital expenditure is required to relieve overloaded equipment. The East Dartmouth 25kV feeder circuit 113H-442 supplying Caldwell Road, Cow Bay and the Eastern Passage areas of Dartmouth exceeds overload criteria. Load on this feeder at the 2008-09 peak was recorded at 432 amps. The overload criteria is a maximum of 325 amps.

Why do this project now?

This project is required to restore overload criteria and provide for further development in this area.

Why do this project this way?

Alternatives to extending this feeder include building a 138kV transmission line and a new substation in Eastern Passage. This item was investigated in the Distribution Planning Study "Dartmouth 25kV System Report #232-1105-H38". This report was originally filed with the Board on May 30, 2008 in response to IR-4 pertaining to CI #28520. Two extra copies of this report were filed with the Board on August 14, 2009. The approach outlined in this work order is the most cost effective.

This work is being completed by NSPI and an affiliate, in accordance with the approach described in response to the ACE 2010 IR-T11(d).

CI 34602 – 25kV Feeder Extension Bissett Road

The following is a breakdown of costs associated with the 25kV Feeder Extension Bissett Road

• Administrative Overheads and Interest	\$164,582
• Materials	██████████
• Contracts	██████████
• Salvage	\$(24,328)
• Total	\$1,036,179

The major costs for this project include materials at an estimate of ██████████. This includes costs for poles, wires and insulators. The contract estimate of ██████████ is based on a rate of ██████████/hour.