

CI# 38062

2010 Off Road to Roadside

REDACTED

June 29, 2010

NOVA SCOTIA
POWER
An Emera Company

UARB APPROVAL SHEET

Project Title: 2010 Off Road to Roadside

CI Number: 38062

☒ Capital Project Authorization

Head Office Use:

☐ ATO

Project Number:

☐ Final Cost

Date: June 9, 2010

Location:

Division:

Expenditure Profile

Schedule

YEAR	Budget Estimate	Project Estimate		
2010	1,001,045	1,000,119	Estimated Start Date	2010-07
			Estimated In-Service Date	2010-11
			Estimated Close Date	2010-12
Total	\$1,001,045	\$1,000,119		

COMMENTS

Submitted on behalf of NOVA SCOTIA POWER INCORPORATED

Approved on behalf of NOVA SCOTIA UTILITY AND REVIEW BOARD

Mark Savory

June 11/2010

Authorized Signatory

DATE

DATE

Mark Savory

VP Technical and Construction

CI Number : 38062 - 2010 Off Road to Roadside

Project Number

Parent CI Number : -

Cost Centre : 800 - 800-Services - Admin.

Budget Version - 2010 05-07 Forecast

	Forecast
Start :	07/01/2010
Operational :	11/01/2010
Final Cost :	12/28/2010
2010	\$1,000,119.36
Total :	\$1,000,119.36
Original Cost :	\$94,233.32

This project will relocate approximately 18kms of distribution line from off road to the roadside in various locations throughout the Province.

Summary of Related CI's +/- 2 years
No other projects in 2008,2009,2010,2011 and 2012

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Budget Version 2010 05-07 Forecast

Capital Item Accounts

Acct	Actv	Account	Activity	Forecast Amount	Amount	Variance
092		092-Vehicle T&D OT Labour AO		1,222	0	1,222
092		092-Vehicle T&D Reg. Labour AO		19,197	0	19,197
094		094 - Interest Capitalized		19,978	0	19,978
095		095-COPS Contracts AO		106,124	0	106,124
095		095-COPS Overtime Labour AO		4,220	0	4,220
095		095-COPS Regular Labour AO		66,307	0	66,307
013	002	013 - COPS Contracts	002 - DP - Land Rights	93,881	0	93,881
020	002	020 - Royalties, Easements, App	002 - DP - Land Rights	15,000	0	15,000
028	002	028 - Consulting	002 - DP - Land Rights	5,000	0	5,000
001	035	001 - T&D Regular Labour	035 - DP - Wood Poles	49,940	0	49,940
002	035	002 - T&D Overtime Labour	035 - DP - Wood Poles	2,133	0	2,133
011	035	011 - Travel Expense	035 - DP - Wood Poles	4,921	0	4,921
012	035	012 - Materials	035 - DP - Wood Poles	77,908	0	77,908
013	035	013 - COPS Contracts	035 - DP - Wood Poles	215,883	0	215,883
014	035	014 - Overtime Meals	035 - DP - Wood Poles	5,456	0	5,456
066	035	066 - Other Goods & Services	035 - DP - Wood Poles	78,000	0	78,000
001	038	001 - T&D Regular Labour	038 - DP - Insulators	0	0	0
012	038	012 - Materials	038 - DP - Insulators	0	0	0
013	038	013 - COPS Contracts	038 - DP - Insulators	0	0	0
001	039	001 - T&D Regular Labour	039 - DP - O/H Cond.	29,015	0	29,015
002	039	002 - T&D Overtime Labour	039 - DP - O/H Cond.	2,133	0	2,133
012	039	012 - Materials	039 - DP - O/H Cond.	40,240	0	40,240
013	039	013 - COPS Contracts	039 - DP - O/H Cond.	84,782	0	84,782
098	039	098 - Salvage	039 - DP - O/H Cond.	(3,799)	0	(3,799)
001	040	001 - T&D Regular Labour	040 - DP - O/H Cond.Devices	1,015	0	1,015
012	040	012 - Materials	040 - DP - O/H Cond.Devices	5,049	0	5,049
013	040	013 - COPS Contracts	040 - DP - O/H Cond.Devices	8,882	0	8,882
001	041	001 - T&D Regular Labour	041 - DP - O/H Line Transf.	1,743	0	1,743
002	041	002 - T&D Overtime Labour	041 - DP - O/H Line Transf.	2,133	0	2,133
012	041	012 - Materials	041 - DP - O/H Line Transf.	29,763	0	29,763
013	041	013 - COPS Contracts	041 - DP - O/H Line Transf.	16,435	0	16,435
098	041	098 - Salvage	041 - DP - O/H Line Transf.	(8,129)	0	(8,129)
013	042	013 - COPS Contracts	042 - DP - O/H Ln.Transf.Dev.	3,800	0	3,800
001	050	001 - T&D Regular Labour	050 - DP - Street Lights	199	0	199

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Budget Version 2010 05-07 Forecast

Capital Item Accounts

Acct	Actv	Account	Activity	Forecast Amount	Amount	Variance
002	050	002 - T&D Overtime Labour	050 - DP - Street Lights	2,133	0	2,133
012	050	012 - Materials	050 - DP - Street Lights	0	0	0
013	050	013 - COPS Contracts	050 - DP - Street Lights	95	0	95
001	052	001 - T&D Regular Labour	052 - DP - Services	1,884	0	1,884
002	052	002 - T&D Overtime Labour	052 - DP - Services	2,133	0	2,133
012	052	012 - Materials	052 - DP - Services	5,336	0	5,336
013	052	013 - COPS Contracts	052 - DP - Services	10,108	0	10,108
001	085	001 - T&D Regular Labour	085 Design	0	0	0
001	085	001 - Regular Labour (No AO)	085 Design	0	0	0
Total Cost:				1,000,119	0	1,000,119
Original Cost:				94,233		

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Capital Item Justification

Justification Criteria : DISTRIBUTION SYSTEM
Sub-Criteria : REQUIREMENT TO SERVE
Name of Report :
Document Location :
Person Responsible :

Why do this project?

This project will reduce outage duration(s) by relocating distribution circuits to the roadside. Relocating to the roadside will target known difficult access areas. These are areas where reliability issues persist due to right of way (ROW) problems, or those with vegetation challenges.

Why do this project now?

Moving lines to the roadside will increase the reliability of the system.

Why do this project this way?

Relocating small off road sections to the road side improves access and reduces outage restoration time.

This work will be completed by NSPI and an affiliate. EUS comprises approximately 60% of the project's contract costs.

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Reason for Variance / Over Expenditure / Final Costing

14720958

The variance between ACE 2010 and the revised submission is due to the estimate being updated since ACE 2010.

CI 38062 – 2010 Off Road to Roadside

The following is a breakdown of costs associated with the 2010 Off Road to Roadside.

• Administrative Overheads and Interest	\$217,048
• Labour	\$ 94,460
• Materials	\$158,296
• Contracts	\$433,866
• Other	\$108,377
• Salvage	\$(11,928)
• Total	\$1,000,119

The majority of costs for this project include Labour at an estimate of \$94,460. This is based on a rate of [REDACTED] manday. The Contract estimate of \$433,866 is based on a rate of [REDACTED]/hour. The Materials estimate of \$158,296 includes costs for poles, wires and insulators.

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Distribution Responses

Request IR-D5:

With respect to page 215, CI# 38062, 2010 Off Road to Roadside,

a) Please provide a list of the feeders that have been selected for this program in 2010. Provide the length of the feeder that is being relocated (both the existing length and relocated length) and number of customers downstream that will benefit from the relocation. Provide the outage performance statistics for these feeders for the most recent 3 years.

b) How were these lines selected? How much more could be done and what is the plan to do so?

c) Provide the breakdown showing the amount budgeted for NSPI labour, contracted labour, consultants, material, interest, and overhead charges.

Response IR-D5:

a) Table 1 - Breakdown of 2010 Off Road to Roadside

Selected Feeders	Existing Line Length	Relocation Line Length	Number of Customers
57C-426 (Goldboro)	3300m off road	3200m on road	208
85S-401 (North of Smokey)	1850m off road	1700m on road	2077
582C-311 (Arisaig)	3500m off road	3300m on road	348

Please refer to Attachment 1 for the outage performance statistics pertaining to the feeders referenced above.

NSPI - 2010 Annual Capital Expenditure Plan (2010-2014) - P-128.09
NSPI Responses to UARB Information Requests

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Response IR-D5: (cont'd)

b) These feeders were prioritized based on feeder inspection results and discussions with operations personnel in each area. There is additional work to be completed in the eastern and western areas of the Province. Therefore, this work will continue into the future. The time frame for this work has not been determined, as the future work has not been scoped.

c) Table 1 – Cost Breakdown 2010 Off Road to Roadside

Account	Estimate (\$)
Labour	230,967
Overtime Labour	10,665
Materials	238,922
Contracts	202,012
Travel & Meals	10,377
Other	1,032
Interest	16,272
Overhead	290,798
Total	1,001,045

Feeders Planned for Off-Road to Roadside Work in 2010

Feeder	Description	2007						2008						2009					
		All Data			2.5 Beta Data			All Data			2.5 Beta Data			All Data			2.5 Beta Data		
		SAIFI	SAIDI	CAIDI	SAIFI	SAIDI	CAIDI	SAIFI	SAIDI	CAIDI	SAIFI	SAIDI	CAIDI	SAIFI	SAIDI	CAIDI	SAIFI	SAIDI	CAIDI
57C-426	25 kV feeder out of SALMON RIVER LAKE (Goldboro)	9.45	89.89	9.51	8.42	47.41	5.63	7.08	33.36	4.71	6.05	14.16	2.34	4.41	16.34	3.70	3.97	11.91	3.00
85S-401	25 kV feeder out of WRECK COVE (Smokey)	5.50	17.72	3.22	4.49	12.82	2.86	13.37	45.26	3.38	11.73	35.78	3.05	10.02	13.34	1.33	7.99	9.28	1.16
23W-302	12 kV feeder out of CLYDE RIVER	7.85	43.57	5.55	7.25	36.39	5.02	10.24	62.61	6.11	5.72	17.57	3.07	1.68	2.82	1.68	0.97	2.04	2.10
582C-311	12 kV feeder out of MALIGNANT COVE - (ARISAIG)	5.41	29.66	5.48	4.38	12.64	2.89	3.21	6.50	2.02	3.18	5.27	1.66	2.16	1.22	0.57	2.16	1.16	0.53