1	Q.	Reference: Upgrade Distribution Systems, Volume I, Section C, Page C-36 Provide
2		the basis (unit cost, historical cost, detailed engineering estimates, etc.) of the 2016
3		and 2017 budget estimates for this project.
4		
5		
6	A.	The estimates included in the Upgrade Distribution Systems project are completed
7		using known material costs (supplied by Hydro), vendor-supplied material quotes (if
8		not known), historical contract labour costs, and known internal labour costs. The
9		methods of estimation mentioned above were used in the creation of the attached
10		estimates.



		Capital Project	:	В	us. Unit		
Project Title:	Farewell Head Pole Replaceme	nts			Date Prepared	2015, May 06	
Company:	HYDRO				Project Type:		
Start Year:	2016 or Later	Category:	Transmission a	nd Rural Operati	ions - Distribution		
Start Date:	2016 Jan 1	Definition:	Other	Ta rear operati	Classification:		
					-		
Completion Date:	2017 Dec	Location:	Fogo Island		sset Retirement o	r iranster?	No
- ()4/ 1	B: 1 1 1						
Type of Work:	Distribution Line Construction		Prepared By:	J. Noble			
Base Date:	2015 Jan 1	Shawlal ha Haad					
	2 Year Cash Sheet S	snould be Used					
Project Cost:	(\$ x1,000)	<u> 2016</u>	<u> 2017</u>	BEYOND	TOTAL		
Material Supply		10.0	190.0	0.0	200.0		
Labour		20.0		0.0	160.0		
Consultant		0.0	0.0	0.0	0.0		
Contract Work		0.0		0.0	320.0		
Other Direct Cost		0.0		0.0	0.0		
Interest and Esca	lation	1.9		0.0	72.3		
Contingency		0.0	136.0	0.0	136.0		
TOTAL		31.9	856.4	0.0	888.3		
TOTAL		31.5	650.4	0.0	800.3		
Description:							
Operating Experie Justification: Future Plans:	nce:						
					Т		
'Initiating Bus.Unit" Mgr	: Project Estimator:	"Managing Dept."	Mgr:	"Initiating Dept" Ma	anager:	Vice-President:	



		9 9	Capital Project		В	Bus. Unit		
Project Title:	Paradise River	Pole Replacement	S		_	Date Prepared	2015, April 30	
Company:	HYDRO					Project Type:	Default	
Start Year:	2016 or Later		Category:	Transmission a	nd Rural Operat	ions - Distribution	Labrador	
Start Date:	2016 Jan	1		Other		Classification:		
Completion Date:				Paradise River	A	Asset Retirement o		Yes
-							·	
Type of Work:	Distribution Li	ne Construction		Prepared By:	J. Noble			
Base Date:	2015 Jan	1	_					
	2 '	Year Cash Sheet Sh	ould be Used					
Project Cost:	(\$ x1,000)		<u>2016</u>	<u>2017</u>	BEYOND	<u>TOTAL</u>		
Material Supply			10.0	130.0	0.0	140.0		
Labour			20.0		0.0	160.0		
Consultant			0.0		0.0	0.0		
Contract Work			0.0		0.0	200.0		
Other Direct Cost Interest and Esca			0.0 2.1		0.0 0.0	0.0 53.2		
Contingency	iation		0.0		0.0	100.0		
3 3 7								
			22.4	C21 1	0.0	CE2 2		
TOTAL			32.1	621.1	0.0	653.2		
Description:								
Operating Experie	nce:							
Justification:								
Future Plans:								
Intellegation Description 12 12 12 12 12 12 12 12 12 12 12 12 12	.	time at a w	III Anno sing San All	N.A.	Ulminian - D - 10 - 1		Mine Due-t-l	
Initiating Bus.Unit" Mgr	: Project Es	umator:	"Managing Dept."	INIRL:	"Initiating Dept" M	anager:	Vice-President:	



	_	nergg	Capital Project		E	Bus. Unit		
Project Title:	Happy Valle	ey - Upgrade Distribut	ion System (L16)		Date Prepared	2015, May 07	
Company:	HYDRO					Project Type:	Default	
Start Year:	2016 or Lat	er	Category:	Transmission a	nd Rural Operat	ions - Distribution	Labrador	
Start Date:	2016 Jan	<u> </u>	Definition:	Other		Classification:	Normal	
Completion Date:	2017 Dec		Location:	Happy Valley	,	Asset Retirement o	or Transfer?	Yes
Type of Work:	Distribution	Line Construction	_	Prepared By:	J. Noble			
Base Date:	2015 Jan	1						
		2 Year Cash Sheet Sh	ould be Used					
Project Cost:	(\$ x1,000)		<u>2016</u>	<u>2017</u>	<u>BEYOND</u>	TOTAL		
Material Supply			10.0	160.0	0.0	170.0		
Labour			20.0		0.0	130.0		
Consultant			0.0		0.0	0.0		
Contract Work Other Direct Cost	te		0.0 0.0		0.0 0.0	290.0 0.0		
Interest and Esca			2.0		0.0	62.8		
Contingency			0.0		0.0	118.0		
TOTAL			32.0	738.8	0.0	770.8		
Description:								
Operating Experie	nce:							
Future Plans:	. Proise	t Estimator:	"Managing Dept."	Mar	"Initiating Dont" M	anager:	Vice-President:	
nitiating Bus.Unit" Mgr	. Projec	t Estillatoi .	ivianiagnig Dept.	IVIEL.	"Initiating Dept" M	анақсі.	vice-riesidelli.	



			Capital Project	t		Bus. Unit		
Project Title:	= King's	Point Pole Replacement			-	Date Prepared	2015, April 30	
Company:	HYDRO	·				Project Type:		
Start Year:		or Later	Category:	Transmission a	nd Rural Opera	tions - Distribution		
Start Date:	2016		Definition:	Other		Classification:		
Completion Date:	-		Location:	King's Point	•	Asset Retirement of		Yes
Completion Date.	2017	<u>Dec</u>	Location.	Killig 3 FOIIIt		Asset Nethernent C	n mansier:	res
T	D'ataile			D	I MI-I-I-			
Type of Work:	-	oution Line Construction	_	Prepared By:	J. Nobie			
Base Date:	2015							
	_	2 Year Cash Sheet Sh	oula be Usea		-			
Project Cost:	(\$ x1,	000)	<u>2016</u>	<u>2017</u>	BEYOND	TOTAL		
Material Supply	,	•	10.0			130.0		
Labour			20.0			160.0		
Consultant			0.0			0.0		
Contract Work			0.0			300.0		
Other Direct Cos			0.0			0.0		
Interest and Esca	alation		2.0			61.9		
Contingency			0.0	118.0	0.0	118.0		
TOTAL			32.0	737.9	0.0	769.9		
			52.0	707.13		703.3		
Description:								
Operating Experie	ence:							
Justification:								
Future Plans:								
"Initiating Bus.Unit" Mg	gr:	Project Estimator:	"Managing Dept."	" Mgr:	"Initiating Dept" I	Manager:	Vice-President:	



		cnc	, 9 9	Capital Project	t	ı	Bus. Unit		
Project Title:	Sally's C	Cove - U	ograde Distributio	on System			Date Prepared	2015, May 07	
Company:	HYDRO						Project Type:	Default	
Start Year:	2016 or	Later		Category:	Transmission ar	nd Rural Operat	ions - Distribution	Northern	
Start Date:	2016 Ja	an	1	Definition:	Other		Classification:	Normal	
Completion Date:	2017 D	ec		Location:	Sally's Cove		Asset Retirement o	or Transfer?	Yes
Type of Work:			e Construction	_	Prepared By:	J. Noble			
Base Date:	2015 Ja		1 ear Cash Sheet Sh	ould be Used					
Project Cost:	(\$ x1,0) (00)		<u>2016</u>	<u>2017</u>	BEYOND	TOTAL		
Material Supply	,. ,	•		5.0		0.0	25.0		
Labour				10.0		0.0	80.0		
Consultant				0.0		0.0	0.0		
Contract Work Other Direct Cost	•-			0.0 0.0		0.0	60.0		
Interest and Esca				0.0		0.0 0.0	0.0 17.3		
Contingency				0.0		0.0	33.0		
TOTAL				15.4	199.9	0.0	215.3		
Description:									
Operating Experie	ence:								
Justification: Future Plans:									
"Initiating Bus.Unit" Mgr	r: Pr	oject Estir	nator:	"Managing Dept."	Mgr:	"Initiating Dept" M	anager:	Vice-President:	



Future Plans:

PROJECT PROPOSAL SUMMARY **Capital Project** Bus. Unit **Project Title:** L'anse-au-Loup Distribution Upgrade Date Prepared 2015, May 06 **HYDRO** Company: Project Type: Default Transmission and Rural Operations - Distribution Northern Start Year: 2016 or Later Category: Start Date: 2016 Jan **Definition:** Other Classification: Normal Completion Date: 2017 Dec Location: L'anse-au-Loup **Asset Retirement or Transfer?** Yes Type of Work: Distribution Line Construction Prepared By: J. Noble Base Date: 2015 Jan 2 Year Cash Sheet Should be Used **Project Cost:** (\$ x1,000) <u> 2016</u> <u>2017</u> **BEYOND TOTAL Material Supply** 20.0 520.0 0.0 540.0 Labour 50.0 180.0 0.0 230.0 Consultant 0.0 0.0 0.0 0.0 **Contract Work** 0.0 560.0 0.0 560.0 **Other Direct Costs** 0.0 0.0 0.0 0.0 **Interest and Escalation** 4.2 140.0 0.0 144.2 Contingency 0.0 266.0 0.0 266.0 1,740.2 **TOTAL** 74.2 1,666.0 0.0 **Description: Operating Experience:** Justification:

"Initiating Bus.Unit" Mgr:	Project Estimator:	"Managing Dept." Mgr:	"Initiating Dept" Manager:	Vice-President:



		Capital Project				Bus. Unit		
Project Title:	Replace Recloser CA1-R2 and A	ssociated Hardwa	re		Date Prepared	2015, May 01		
-	HYDRO				Project Type:			
Start Year:	2016 or Later	Category:	Transmission a	nd Rural Onerati	ons - Distribution			
Start Date:	2016 Jan 1	Definition:	Other	ia itarai Operati	Classification:	-		
				Δ.	sset Retirement o		Vac	
Completion Date:	2017 Dec	Location:	Cat Arm	A	sset Retirement o	or transferr	Yes	
Type of Work:	Distribution Line Construction		Prepared By:	I Noble				
		<u>—</u>	Ргерагеи ву.	J. Noble				
Base Date:	2015 Jan 1 2 Year Cash Sheet S	hould be Used						
Project Cost:	(\$ x1,000)	<u>2016</u>	<u>2017</u>	BEYOND	<u>TOTAL</u>			
Material Supply		10.0		0.0	80.0			
Labour		10.0		0.0	100.0			
Consultant		0.0		0.0	0.0			
Contract Work		0.0		0.0	100.0			
Other Direct Cost		0.0		0.0	0.0			
Interest and Esca	lation	0.6		0.0	29.6 56.0			
Contingency		0.0	56.0	0.0	56.0			
TOTAL		20.6	345.0	0.0	365.6			
Description:								
Operating Experie	nce:							
Justification:								
Future Plans:								
nitiating Bus.Unit" Mgr	: Project Estimator:	"Managing Dept."	Mgr:	"Initiating Dept" Ma	nager:	Vice-President:		



	110	enei	. 9 Y						
				Capital Project			Bus. Unit		
Project Title:	Replac	e Recloser	GB1-R1				Date Prepared	2015, May 01	
Company:	HYDRO)					Project Type:	Default	
Start Year:	2016 o	r Later		Category:	Transmission ar	nd Rural Operat	tions - Distribution	Central	
Start Date:	2016 J	an	<u>1</u>	Definition:	Other		Classification:	Normal	
Completion Date:	2017 [Dec		Location:	Grandy Brook Te	erminal Station	Asset Retirement	or Transfer?	Yes
Type of Work:	Distrib	ution Line	Construction	_	Prepared By:	J. Noble		_	
Base Date:	2015 J		1 or Cash Sheet Sho	ould be Used					
Project Cost:	(\$ x1,0			<u>2016</u>	2017	BEYOND	TOTAL		
Material Supply	(7 11)0	,00)		<u>2010</u> 5.0		0.0	65.0		
Labour				10.0		0.0	80.0		
Consultant				0.0		0.0	0.0		
Contract Work				0.0		0.0	80.0		
Other Direct Cost				0.0		0.0	0.0		
Interest and Esca	lation			0.4		0.0	23.8		
Contingency				0.0	45.0	0.0	45.0		
TOTAL				15.4	278.4	0.0	293.8		
Description:									
Operating Experie	nco:								
Operating Experie	ence:								
Justification:									
Future Plans:									
Initiating Bus.Unit" Mg	r: la	Project Estim	nator:	"Managing Dept.'	' Mgr:	"Initiating Dept" I	Manager:	Vice-President:	
2 23.0 mc Wig	,.,	. 5,000 250111		managing bepti		B Dept 1		1.50 Tresidenti	

Vice-President:

"Initiating Dept" Manager:



PROJECT PROPOSAL SUMMARY **Capital Project** Bus. Unit Bay d'Espoir Underground Upgrade **Project Title:** Date Prepared 2015, May 01 **HYDRO** Company: Project Type: Default Start Year: 2016 or Later Category: Transmission and Rural Operations - Distribution Central Start Date: **Definition:** 2016 Jan Other Classification: Normal Completion Date: 2017 Dec Location: Milltown **Asset Retirement or Transfer?** Yes Type of Work: Distribution Line Construction Prepared By: J. Noble Base Date: 2015 Jan 2 Year Cash Sheet Should be Used **Project Cost:** (\$ x1,000) <u> 2016</u> <u>2017</u> **BEYOND TOTAL Material Supply** 10.0 130.0 0.0 140.0 Labour 20.0 120.0 0.0 140.0 Consultant 0.0 0.0 0.0 0.0 **Contract Work** 0.0 440.0 0.0 440.0 **Other Direct Costs** 0.0 0.0 0.0 0.0 **Interest and Escalation** 2.0 72.8 0.0 74.8 Contingency 0.0 144.0 0.0 144.0 **TOTAL** 32.0 906.8 0.0 938.8 **Description: Operating Experience:** Justification: **Future Plans:**

"Initiating Bus.Unit" Mgr:

Project Estimator:

"Managing Dept." Mgr: