1	Q.	With	With reference to "Section 4 - Install Evacuation Life Raft and Two Fixed Platforms						
2		to Allo	ow Vessel Access" of Hydro's report on the Refurbishment of the Marine						
3		Termi	inal at the Holyrood Thermal Generating Station (page 31 thereof), Hydro						
4		relate	relates that the provision of the secondary egress, as outlined at page 23 of the						
5		Hatch	report, is essential.						
6									
7		(a)	To the date hereof have there been any instance in which an evacuation has						
8			been required but egress via the shore arm link has been prohibited? If yes,						
9			please provide details;						
10		(b)	Has there ever been a "man overboard" situation at or near that section of						
11			the jetty?;						
12		(c)	Please provide copies of any incident reports filed by Hydro employees,						
13			within the past five (5) years, with respect to life safety issues at the Marine						
14			Terminal;						
15		(d)	Please provide a detailed breakdown of the costs associated with the						
16			installation of an evacuation life raft and two (2) fixed platforms at the						
17			Marine Terminal; and						
18		(e)	Please provide a detailed breakdown of all life safety components of this						
19			project, including the costs of each such life safety component.						
20									
21									
22	A.	(a)	To date there has not been any instance in which an evacuation has been						
23			required but egress via the shore arm link has been prohibited.						
24		(b)	While there has never been a "man overboard" situation at or near that						
25			section of the jetty, the absence of such an event to date may be the result						
26			of good fortune, and should not be construed as a predictor of future life						
27			safety issues.						

See attached listing of safety concerns and incidents since 2007. 28 (c) The detailed breakdown of the cost associated with the installation of an 29 (d) 30 evacuation life raft and two fixed platforms at the Marine Terminal is 31 contained on page B103 of the report. The approximate cost breakdown is 32 shown in Table 1 below.

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Table 1: Evacuation Life Raft and Fixed Platforms Cost Breakdown

Item	Description	Qty	Units	Materials/Equipment		Contractor Installation		Total
item	Description			Unit Price	Amount	Unit Price	Amount	iotai
1	Emergency Evacuation Vessel	2	ea	\$10,000	\$20,000	\$10,000	\$20,000	\$40,000.
2	Fixed Platforms	2	ea	\$50,000	\$100,000	\$140,000	\$280,000	\$380,000.
3	Safety Vessel/Safety Watch	200	hrs	-	-	\$180	\$72,000	\$72,000.
4	Engineering	1	Lot	-	-	-	-	\$100,000.
5	Contractor Onsite Facilities	1	Lot	-	-	-	-	\$74,400.
6	Overhead and Profit	1	Lot	-	-	-	-	\$12,000.
7	Contingency	1	Lot	-	-	-	-	\$135,680.
TOTAL:							\$814,080	

(e) A detailed breakdown of all life safety components of this project is contained on page B103 of the report. The approximate cost breakdown is shown in Table 2 below.

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8 Table 2: Life Safety Components Cost Breakdown

Item	Description	Qty	Units	Materials/Equipment		Contractor Installation		Total
I CIII	Bescription			Unit Price	Amount	Unit Price	Amount	Total
1	Fall Arrest System	1	Lot	\$50,000	\$50,000	\$50,000	\$50,000	\$100,000
1	Emergency Evacuation Vessel	2	ea	\$10,000	\$20,000	\$10,000	\$20,000	\$40,000
2	Fixed Platforms	2	ea	\$50,000	\$100,000	\$140,000	\$280,000	\$380,000
3	Lighting Upgrades	1	Lot	-	\$30,000	-	\$85,000	\$115,000
4	Safety Vessel/Safety Watch	400	hrs	-	-	\$180	\$72,000	\$72,000
3	Engineering	1	Lot	-	-	-	-	\$225,000
4	Contractor Onsite Facilities	1	Lot	-	-	-	-	\$101,400
5	Overhead and Profit	1	Lot	-	ı	-	-	\$20,000
6	Contingency	1	Lot					\$210,680
TOTAL:					\$1,264,080			

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)bservationN	lDbservationCategor	[ObservationTitle]	DateReported
2007000285	Condition	Lack of evacuation plan Holyrood dock	1/17/2007
2007000286	Condition	Poor air quality in jetty shack at Holyrood dock.	1/14/2007
2007000958	Condition	HRD - Marine Terminal Broken Light Fixture	3/12/2007
2007002095	Condition	HRD: AED approved users list not available	5/8/2007
2007002812	Condition	HRD Shoreline walkway	6/12/2007
2007002819	Condition	HRD - Dock lights need repairs.	6/12/2007
		HRD - Review feasibility of installing a exhaust fan in	
2007003049	Condition	tanker powerhouse at Holyrood dock	7/4/2007
2007003050	Condition	HRD - Dock pumphouse repair chairs.	7/4/2007
2007003051	Condition	HRD - Dock pumphouse MCC improvements	7/4/2007
2007003063	Condition	The tanker pumphouse at the Holyrood Dock is filthy Insufficient numbers of Operations personnel for	7/5/2007
2007003083	Near Miss	Marine tanker discharge	7/6/2007
2007003003	Condition	HRD Install proper signage.	7/13/2007
2007003120	Condition	Bird droppings on Dock at Holyrood	7/15/2007
2007003144	Condition	Alders over grown on the walkway at shoreline	7/13/2007
2007003878	Condition	capatains Holyrood	9/25/2007
2007003879	Condition	Dock MCC does not have Arc Fash ratings	9/25/2007
2007004064	Condition	Foot peddles for capstains at dock	9/25/2007
		Jetty - MCC Room and Storage Area has water on the	
2007005283	Condition	floor	11/28/2007
2008000182	Condition	Slippery stairways and Platforms at shoreline	1/15/2008
		Supply of floater suits for Operations Department not	
2008000327	Condition	adequate.	1/24/2008
		Oil Line at the Dock not pumped out following Tanker	
2008000373	Condition	off-loading and Tank Gauging.X	1/29/2008
		Lifting device required for shoreline capstan at	
2008000375	Condition	Holyrood Marine Terminal	1/29/2008
		Marine Terminal requires man overboard emergency	
2008000553	Condition	response plan	2/9/2008
2008005073	Loss	Fender missing from dock at Marine Terminal.	10/3/2008
		Holyrood capstan board walk, Ground appears to be	
2008006284	Condition	unstable	12/1/2008
2008006455	Condition	Operations truck doesn't have an operating spotlight.	12/8/2008
		HRD dock pumphouse intake duct is too low. High	
2009001590	Condition	potential for head bumpimg.	3/24/2009
2009004209	Condition	Jetty is unsanitary	7/9/2009
0000000047	Candition	Life rings provided at the jetty are attached to	11/0/0000
2009006647	Condition	coiled/knoted lenghts of rope that are tangled	11/6/2009
2009007232	Loss	employee slipped on the jetty shoreline boardwalk Safety cleats on shoreline walkway were removed by	12/7/2009
2010000517	Condition	contractor and not re-installed.	1/29/2010
		Dock shack Nitrogen bottles need replacing before	
2010000545	Condition	tanker arrives	1/31/2010
		both sets of lighting on North and South ends of dock	
2010000746	Condition	are not wotrking	2/9/2010
		HTGS,parking lot behind ERT building. No lighting in	
2010001131	Condition	this parking lot,	2/24/2010
2010001170	Condition	Jetty Gate lock difficult to open	2/25/2010

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		HTGS a complete set of vhf radios are required for the	
2010001336	Condition	marine dock .	3/3/2010
2010001569	Condition	Jetty shack sump requires to be pumped out	3/13/2010
		Inside jetty shack The containment oil sump level	
2010002287	Condition	is high and needs to be pumped down	4/11/2010
2010002799	Condition	Planks loose near southern most capstan	5/6/2010
2010003887	Condition	dock sump full	6/20/2010
2010003888	Condition	Tree leaning on power line	6/20/2010
		Marine Terminal support concrete encasement	
2010004538	Condition	severely eroded	7/31/2010
		Surface of jetty covered with sea gull guano - please	
2010004776	Condition	clean before tanker arrives	8/16/2010
		Valve 0-N1-V107 at the dock has a severe slipping	
2010005118	Condition	hazard if needed to be accessed.	9/2/2010
2010005545	Condition	Expired warning sign still posted	9/15/2010
2010005960	Condition	Lights out at Jetty Shack	10/3/2010
2010006549	Condition	Marine Terminal - Warm-up shelters	10/26/2010
2010006663	Condition	Jetty Sump full of water	11/1/2010
		HRD, tanker off loading, above 10 degrees. Heat	
2010007493	Condition	tracing on line not functioning properly.	12/10/2010
2010007615	Condition	Jetty Bumpers	12/18/2010
2010007616	Condition	Jetty Storage room heater	12/18/2010
2010007617	Condition	pipe line tree growth	12/18/2010
2010007618	Condition	Jetty water Dispensor	12/18/2010
		Tanker Gangway blocked off dock causing us to have	
2011000672	Condition	to back down a slush and snow covered dock.	1/31/2011
		Failure of fuel oil line heat tracing caused a 4 day delay	
2011001036	Condition	in unloading cargo from tanker MT Ares.	2/21/2011
2011001310	Condition	manhole cover identification	3/6/2011
2011001311	Condition	tank farm metal scrap	3/6/2011
2011001312	Condition	Tank Farm Lumber Scrap	3/6/2011
2011001313	Condition	# 1 F.O. Tank suction heater pipe acess platform	3/6/2011
		Jetty shack the water dispensor is missing the kettle	-//
2011001522	Condition	also needs to be replaced	3/16/2011
2011001628	Condition	Dock shack items	3/22/2011
2011002406	Condition	#4 tank suction heater enclosure lighting	5/1/2011
0011000107	0 ""	Dock access ramp overhead lighting needs repair or	
2011002407	Condition	replacement.	5/1/2011
2011002408	Condition	lights on shoreline walkway	5/1/2011
2011002409	Condition	Dock overhead lights	5/1/2011
0011001000	O = == = !±! = ==	South west end of dock, the bumpers are in need of	7/10/0011
2011004330	Condition	repair/replacement to wood facings	7/16/2011
2011004331	Condition	Dock sump full of water - needs to be pumped out	7/16/2011
2011005369	Condition	Dock road way at turn is severely rutted	9/2/2011
2011005270	Condition	Jetty rope room and shoreline walkway need lights	9/2/2011
2011005370 2011005371	Condition Condition	replaced (present lights burnt out)	9/2/2011
ZU110053/1	Condition	Jetty deck Cleaning required The sump in the number come on the letty is full and	3/4/4011
2011005372	Condition	The sump in thepump room on the jetty is full and needs to be pumped out.	9/2/2011
2011005372	Condition	All lights out on poles on jetty	10/2/2011
2011000109	CONGRESS	All lights out on poles on jetty	10/2/2011

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		Dool, who we want door out on stool alive has a westerd	
0011000010	O a madiki a m	Dock pump room door outer steel skin has rusted	10/10/0011
2011006219	Condition	through and needs to be replaced	10/10/2011
2011006951	Condition	Marine Terminal Shore Line Board Walk - Ramps have missing "rungs"	11/10/2011
2011006951		Several Lights out on jetty boardwalk	11/10/2011
2011007259	Condition	#1 F.O. Tank suction heater enclosure entrance door	11/20/2011
2011007423	Condition	needs to be replaced(Present door damaged)	12/5/2011
2011007423	Condition	#2 F. O. Tank suction heater enclosure west side door	12/3/2011
2011007424	Condition	inside door knob damaged	12/5/2011
2011007424	Condition	ERT signed out Jetty keys to perform an inspection at	12/3/2011
2011008056	Condition	night and alone.	12/30/2011
2012000088	Condition	No vehicle readily available for ERT	1/5/2012
2012000847		Fuel Line needs support	2/3/2012
2012000848		Tank farm snow clearing	2/3/2012
2012000010	Condition	HRD- while tying up tanker on Jan 31,2012 weather	2,0,20.2
2012001274	Condition	deteriorated rapidly	2/24/2012
		Security Gate Jetty - Main Lock had to be cut for	
2012001724	Condition	access to service the March 14, 2012 Tanker	3/14/2012
		Onsite tank guagers from Saybolts were on the Dock	
2012002410	Condition	without wearing floatation jackets.	4/17/2012
2012003643	Condition	Fuel line needs supports adjusted	5/29/2012
2012004291	Condition	dock sump full of oil/water	6/23/2012
		B & W employee was not wearing high visibility	
2012004353	Condition	clothing while walking in the plant.	6/28/2012
		weed and alder growth around light oil tanks need to be	
2012004508	Condition	controlled	7/8/2012
2012004509	Condition	Rags on drainage screen	7/8/2012
		Pilot ladder at North end of Marine terminal needs 3	
2012004510	Condition	steps or rungs replaced (Present rungs broken)	7/8/2012
		Weed and alder growth around the Light oil tanks need	
2012004511	Condition	to be cut back or chemically controlled	7/8/2012
		Pilot ladder at the north end of the jetty needs rungs	
2012004512		repaired or ladder replaced	7/8/2012
2012005175	Condition	Dock pump room access door has hole	8/14/2012
		Jetty pump house/Mcc room communications radio	
2012005751	Condition	not working	9/21/2012
00400000	0 1111	Marine jetty. Two access holes in the jetty deck have	10/10/0010
2012006220	Condition	cement filler removed. Repair.holes	10/10/2012
004000047	0 1111	Hrd. Marine therminal jetty. Fermanite fitting on	10/10/0010
2012006317	Condition	pumping line. Temporary repair Line condition	10/13/2012
004000000	O a sa al'il' a sa	Temporary guardrails not in place for entire work area	10/00/0010
2012006620	Condition	at Jetty	10/22/2012
2012007163	Condition	Fire system isolation valve # 19. I.D. fallen down	11/16/2012
2012007164	Condition	#2 Fuel oil tank suction heater enclosure Lights	11/16/2012
2012007591	Condition	dock sump full	12/2/2012
201200000	Condition	Dock numphouse storage section lights are hurst out	1/1/2013
2013000002	Condition	Dock pumphouse storage section lights are burnt out Dock shack oil pump needs some heat tracing. Cold	1/1/2013
2013000003	Condition	temperatures make pump hard to start.	1/1/2013
2013000003	Condition	Holyrood.Marine Therminal.North loading arm cable	1/1/2013
2013000125	Condition	slack.	1/9/2013
2010000120	Condition	SIGON.	1/3/2010

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No sign placed on danger tape used to rope off steam

leak. HTGS unit #2 3rd floor. 1/29/2013
Dock shack personal area needs to be cleaned - - - 2/3/2013

2013000539 Condition 2013000658 Condition