

1 Q. For the budget items identified below, provide the following information:
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Budget Item	Amount	Description
B-46	\$282,000	Replace 136 kW Diesel Unit No. 284 – Harbour Deep
B-57	\$515,000	Upgrade Diesel Plant - Harbour Deep

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- 4 (a) Provide more detailed rationale for the upgrading of the diesel plant
 5 building.
- 6 (b) Provide a detailed breakdown of the costs associated with the project.
- 7 (c) Provide the following for the Harbour Deep system for the period
 8 1996-2000:
- 9 (i) energy sold;
- 10 (ii) annual peak demand;
- 11 (iii) capital expenditures;
- 12 (iv) operating costs; and
- 13 (v) the number of domestic/commercial customers.
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- 15 (d) Indicate the viability of extending the life of the existing plant for an
 16 additional 2 to 5 years without this capital expenditure.
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18 A. (a) The existing facility consists of two industrial type trailers, one
 19 containing the plant equipment (diesel hall) and the other containing
 20 the office/storage/washroom. These trailers were salvaged from a
 21 construction site and used to replace an older plant in 1981.

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23 The diesel hall is very congested and doesn't meet either area or
 24 height requirements for the safe performance of operating and

1 maintenance activities. With insufficient space to install an adequate
2 lifting device, maintenance workers have utilized building roof beams
3 in an effort to facilitate lifting of heavy engine parts resulting in
4 damage to these beams. Spacing between control panels and trailer
5 walls is limited and not to CSA standards. Hence, performing
6 maintenance and repairs is very difficult.

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8 The plant presently has no fire detection/alarm system which is
9 considered essential for semi-attended operation. Lighting in the
10 engine hall and other areas of the plant is inadequate for the operation
11 and maintenance work being performed. The upgrade will also
12 address environmental concerns in that the existing plant does not
13 provide for adequate spill containment.

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15 (b) Specific costs budgeted for the projects identified are as follows:

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17 Replace 136 kW Unit 284 – Harbour Deep

18	Material Supply	\$150,000
19	Labour	30,200
20	Engineering	8,000
21	Project Management	14,200
22	Inspection and Commissioning	18,000
23	Corporate O/H, IDC, Esc., Contingency	<u>61,300</u>
24	TOTAL (2002)	\$281,700
25	Engineering (2001)	<u>11,000</u>
26	TOTAL	\$292,700

1	<u>Upgrade Diesel Plant – Harbour Deep</u>	
2	External Contracts	\$290,000
3	Internal Forces	20,000
4	Land Survey/Environment	6,000
5	Engineering, Inspection, Project Mgmt., Commissioning	79,000
6	Corporate O/H, IDC, Contingency	<u>120,000</u>
7	TOTAL (2002)	515,000
8	Engineering (2001)	<u>35,000</u>
9	TOTAL	\$550,000

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(c) The following is the information for the Harbour Deep System for the period 1996 – 2000:

Year	Energy Sold (MWh)	Annual Peak Demand (kW)	Capital Expenditures \$	Operating Cost \$	Customers	
					Domestic	General Service
1996	762	272	--	238,410	74	16
1997	738	273	--	198,255	72	15
1998	732	269	--	267,684	71	15
1999	759	286	--	281,944	71	15
2000	712	257	251,198	336,856	69	14

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(d) It is not viable or practical to extend the life of the existing plant for an additional 2 to 5 years. Without the proposed capital expenditures, the current safety, environmental and operational issues cannot be mitigated.