
Repair and Advanced Overhaul of the Happy Valley Gas Turbine

1 Q. Please provide the individual budget estimate breakdown for the turbine repair and
2 the advanced overhaul.

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5 A. The table below provides the individual budget estimate breakdown for both the
6 repair and overhaul.

Item	Repair Option	Overhaul Option
Material Supply	15,000	15,000
Labour	269,400	269,400
Contract Work	1,130,000	2,640,000
Other Direct Costs	112,300	112,300
Interest and Escalation	36,700	70,800
Contingency	305,300	607,300
Total	\$1,868,700	\$3,714,800

7 As shown in the table, the project costs associated with material supply, labour, and
8 other direct costs are the same for both options. The contract work, interest and
9 escalation, and contingency costs are greater for the overhaul option. The cost
10 estimates are order of magnitude costs only as the actual cost of the repair and
11 overhaul can only be determined after complete disassembly and condition
12 assessment within the overhaul facility.

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14 The repair option assumes that the engine can be disassembled, repaired and
15 reassembled without overhaul or upgrade. However, the OEM has indicated that

1 due to the age of the unit, at least the partial overhaul and upgrade of the engine
2 will likely be required. Thus the repair only option may not be possible.

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4 The repair and overhaul option includes the repair, overhaul and anticipated
5 upgrades required to ensure the unit can be reassembled post repair and that it will
6 be serviceable to the next overhaul which is estimated to be in 15 to 20 years.