

1 **Q. Page E-8, Upgrade Gas Turbine Plant Life Extension – Hardwoods, \$3,366,600**

2 Please provide a detailed explanation of the work to be undertaken in 2012,
3 including an updated detailed breakdown of the costs involved.

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6 **A.** The work to be undertaken in 2012, including a detailed cost breakdown, is
7 provided in the following table. The budget required for 2012 has changed from
8 \$3,366,600 to \$4,280,400. While the overall budget for the three-year project
9 remains unchanged at \$5,994,700, further clarity on scope and cost will be
10 confirmed upon completion of the inspection of the individual components.

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12 In the original proposal a large portion of the planned capital expenditures was
13 related to the overhaul of a gas generator engine in 2010 and the overhaul of a
14 second engine in 2011. The overhaul planned for 2010 was delayed to 2011. This
15 resulted in the second overhaul being delayed to 2012.

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Major Component	Description of Work	Estimated Cost (\$000)
Gas Generator Engine	Overhaul gas generator engine (originally planned for completion in 2011)	750.0
Air Inlet System	Clean, recoat and realign inlet bellmouth	55.0
Exhaust Stacks	Replace cladding, clean, and recoat	40.0
Mail Lube Oil and Glycol Systems	Inspect, and replace piping as required	10.0
Generator and Power Turbine Enclosures	Clean, recoat interior and exterior	50.0
Alternator and Excitation System	In-situ testing	15.0
Alternator and Excitation System	Detailed inspection, and refurbishment of rotor and stator	2,234.9

Alternator Enclosure	Clean and recoat exterior	10.0
Fuel Oil Storage Tank	Clean and inspect tank, recoat exterior	80.0
Electrical Systems	Replace 13.8kV circuit breaker, modify cable entrance cubicle, replace outdoor junction boxes, replace electromechanical relays, replace station service power cable	150.0
Mail Lube Oil Pumps (AC)	Install new pumps	30.0
Total		3,424.9
O/H, IDC & Escln.		513.0
Contingency		342.5
Grand Total (2012)		4,280.4