

**CHUGACH ELECTRIC ASSOCIATION, INC.**  
**Anchorage, Alaska**

**OPERATIONS COMMITTEE**  
**AGENDA ITEM SUMMARY**

**April 4, 2007**

**ACTION REQUIRED**

**AGENDA ITEM NO. VI.**

- Information Only
- Motion
- Resolution
- Executive Session
- Other

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**TOPIC**

Beluga Unit 5 Hot Gas Path Inspection – Project Authorization Motion Recommendation

**DISCUSSION**

Hot Gas Path parts within a gas turbine have limited lives due to operating environments involving high speeds, vibration, and temperatures. This inspection will replace many of these parts.

The following hot gas path parts will be replaced: Row 1 Buckets & Nozzle, Row 2 Nozzle, Row 3 Buckets, Row 2 Shrouds, Row 3 Shrouds.

**MOTION**

Motion: Move that the Operations Committee recommend to the Chugach Board of Directors that they approve a Motion to authorize project expenditures for the Beluga Unit 5 Hot Gas Path Inspection with an estimated cost of \$ 2,589,778 and an estimated completion date of August 31, 2007.

## Chugach Project Authorization – Budget Year 2007

**Project Name: BELUGA UNIT 5 HOT GAS PATH INSPECTION**

**Project Category:**

Safety		Incremental Load Growth		New Service		R&R T&D	
Agency Mandated		Reliability		Operating Efficiency		R&R Generation	X

**Accountabilities & Approvals**

		Signatures	Date
Board of Directors:	Jim Nordlund, Secretary	_____	__/__/__
CEO	Bill Stewart, Chief Executive Officer	_____	__/__/__
Executive Sponsor:	Brad Evans, Senior VP Power Supply	_____	__/__/__
Project Manager:	Paul Risse, Director GTS	_____	__/__/__

**Purpose and Need:**

Hot Gas Path parts within a gas turbine have limited lives due to operating environments involving high speeds, vibration, and temperatures. This outage will replace many of these parts.

The following hot gas path parts will be replaced; Row 1 Buckets & Nozzle, Row 2 Nozzle, Row 3 Buckets, Row 2 Shrouds, Row 3 Shrouds.

**Project Description:**

This project replaces numerous hot gas path parts.

**Approval Amount: \$ 2,589,778**

Project included in **2007/2011 CIP** and **2007 Budget** @ \$ 2,782,864

Category	Budget	Actual	Projected	Variance \$	Variance %	Notes
Labor	255,139		302,657	47,518	19%	
Transportation	16,510		16,510	0	0%	
Materials	2,386,173		2,151,187	-234,986	-10%	
Professional Services	0		0	0	0%	
OH	125,042		119,424	-5,618	-4%	
Total	2,782,864		2,589,778	-193,086	-7%	

**Variance Discussion (Note #):**

None

## Chugach Project Authorization – Budget Year 2007

### **Cash Flows**

3rd QTR 2007:        \$ 2,589,778

### **Economic Analysis**

This is capitalized maintenance.

### **Economic Analysis Summary**

Replacement of capitalized parts.

**Current Project Status:**    **Percent Complete** 1 %

Detailed planning underway, and parts being staged at Beluga for the outage.

### **Project Schedule: (see attached timeline)**

July – August 2007.