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**RESOLUTION****Debarr Substation Rebuild Project Authorization**

WHEREAS, Chugach Electric Association, Inc. (Chugach) has identified the need for a station upgrade at Debarr Substation to increase reliability and extend the life of the substation;

WHEREAS, existing facilities in Debarr Substation are thirty to fifty years old, have reached the end of their useful life and require replacement;

WHEREAS, Chugach has included the Debarr Substation Rebuild in the 2017-2021 Capital Improvement Plan (CIP);

WHEREAS, Chugach has included funding in its 2017 Annual Operating budget for the Debarr Substation Rebuild;


WHEREAS, Chugach has estimated the Debarr Substation Rebuild at \$6,000,000.

NOW, THEREFORE, BE IT RESOLVED, that the Chugach Board of Directors authorize the Chief Executive Officer to approve the project expenditures for the Debarr Substation Rebuild at an estimated total cost of \$6,000,000 with an estimated completion date of December 2018.

**CERTIFICATION**

I, Bettina Chastain, do hereby certify that I am the Secretary of Chugach Electric Association, Inc., an electric non-profit cooperative membership corporation organized and existing under the laws of the State of Alaska: that the foregoing is a complete and correct copy of a resolution adopted at a meeting of the Board of Directors of this corporation, duly and properly called and held on the 26<sup>th</sup> day of January, 2017; that a quorum was present at the meeting; that the resolution is set forth in the minutes of the meeting and has not been rescinded or modified.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of this corporation the 26<sup>th</sup> day of January, 2017.

  
Secretary

# Chugach Project Authorization

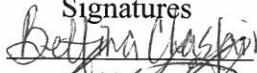


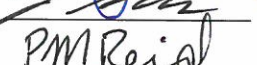
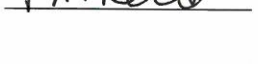
**Project Name: Debarr Substation Rebuild**

**Project Category:**

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

**Accountabilities & Approvals**

Board of Directors: Bettina Chastain, Secretary  
 CEO: Lee Thibert, CEO  
 Executive Sponsor: Brian Hickey, Sr. VP, System Operations  
 Project Manager: Jon Sinclair, Sr. Mgr., Transmission  
 Project Engineer: Peyton Reid, Site Engineer

Signatures	Date
	01/26/17
	1/24/17
	1/24/17
	1/24/17
	1/24/17

**Purpose and Need:**

This project will upgrade the existing facilities at Debarr Substation. The scope will include replacement of the existing power transformer, 12.5kV switchgear, 34.5kV circuit switchers, and associated control and power cables. Most of the existing facilities are between 30 and 50 years old and have reached the end of their useful life and require replacement. The new facilities will extend the life of the substation and provide reliable power to east Anchorage.

**Project Description:**

This project will replace the majority of the facilities at Debarr Substation as noted above. The new facilities will include 12.5kV and 34.5kV switchgear with new relay and control equipment. A new 14 MVA transformer will replace the existing unit. In addition, the substation will be rebuilt to accommodate two power transformers. One transformer will be installed with this project and the second can be installed when needed in the future. The new transformer foundations will meet current seismic requirements and they will include oil containment. Grounding and lighting will also be updated to current code requirements.

**Approval Amount: \$6,000,000**

Project included in **2017-2021 CIP** @ \$6,000,000 and **2017 Budget** @ \$1,500,000

	Labor	Contract	Materials	Total
Forecast	\$1,000,000	\$2,000,000	\$3,000,000	\$6,000,000