

**Geologic Materials Center Warehouse Safety**

**FY2024 Request: \$600,000**

**Reference No: AMD 64602**

**AP/AL:** Appropriation

**Project Type:** Life / Health / Safety

**Category:** Natural Resources

**Location:** Anchorage Areawide

**House District:** Anchorage Areawide (HD 12-28)

**Impact House District:** Anchorage Areawide (HD 12-28)

**Contact:** Theresa Cross

**Estimated Project Dates:** 07/01/2023 - 06/30/2028 **Contact Phone:** (907)269-6398

**Brief Summary and Statement of Need:**

The Alaska Geologic Materials Center (GMC) is part of the Alaska Division of Geological & Geophysical Surveys (DGGS) and archives petroleum and mineral cores from throughout Alaska, valued at more than \$37 billion. The archived materials are used by industry to further exploration and discovery, making the GMC an important economic engine for Alaska. This capital request will provide seismic hazard mitigation for the geologic samples on shelves. As seismic activity is non-determinable, risk to staff and collections increases with time.

<b>Funding:</b>	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund	\$600,000						\$600,000
<b>Total:</b>	\$600,000	\$0	\$0	\$0	\$0	\$0	\$600,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input checked="" type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Prior Funding History / Additional Information:**

**Project Description/Justification:**

This is a proactive request to provide seismic hazard mitigation for the geologic samples on shelves. Collections archived at the GMC help geologists determine the potential of Alaskan land for the production of mineral and petroleum resources and expanding the facility’s capacity aligns with DGGS’ statutory mission to “Determine the potential of Alaskan land for production of metals, minerals, fuels, and geothermal resources, the locations and supplies of groundwater and construction material, and the potential geologic hazards to buildings, roads, bridges, and other installations and structures (AS 41.08.020)”.

**Seismic Hazard Mitigation \$420,000**

Alaska is the most seismically active state in the nation. Since opening in July 2015, three magnitude 7.0 to 7.3 earthquake events have occurred with minor amounts of sample material being knocked to the floor during each event. It is not a question of if a large earthquake will occur, but a question of

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when it will occur. During a large event, much of the collection at the facility could be destroyed if the storage system currently in use at the facility is not improved. With the replacement cost of the samples in the facility exceeding \$37.3 billion and their significance to future exploration success, the cost of securing these invaluable materials is negligible and quite reasonable. This request includes funding to install simple pallet rack nets and straps on the shelves at the GMC, which is a cost-effective method to help protect the rock samples from destructive falls during future earthquakes affecting the Anchorage area. This request preserves the geologic materials archived at the facility for future use by industry and academia and promotes a safe warehouse work environment.

**Damage Repair \$180,000**

Over the past seven years there has been natural and human-caused damage to the metal racking system. This request will provide funding for a racking contractor to review all damage and make suitable repairs to ensure that the GMC rack are up to OSHA standards. The contractor will also install 2' steel collars to reinforce the base of all main vertical support columns adjacent to main travel aisles. The proposed repairs will also have the added benefit of strengthening the metal racking and shelving system to better withstand future earthquakes.

Line 1000	100,000
Line 2000	
Line 3000	300,000
Line 4000	200,000
Line 5000	
Line 7000	
<b>Total</b>	<b>600,000</b>