

Royal Oak Mines Inc. - NWT Division
Authorization For Expenditure

AFE No.: G
Location: NWT Division - Giant Operation

Date: March 4, 1996
Department: Environmental

1. Description of expenditure for which approval is requested:
Purchase, installation, and training for a Sulphur Dioxide Continuous Emission Monitoring System (CEMS) for the Giant Mine Roaster stack. With "draft" Regulations for Sulphur Dioxide being released for consultation some time this year, we need to have a better idea of what our emission rates are. As well, Renewable Resources as already mentioned that a continuous monitoring system would most likely be required when Regulations come into effect. A CEMS system provides operators with a continuous indication of plant performance and environmental emissions.
2. Cost Estimate (incl. freight):
 1. Purchase Cost: Hardware Package **\$ 50,000.00**
Operating Software **\$ 10,000.00**
 2. Outside Contracts: Commissioning Assistance and Training **\$ 20,000.00**
 3. Own Fabrication: Engineering
Labour
Material
Other
 4. Contingencies 5% **\$ 4000.00**

TOTAL: \$84000.00

SUPPLEMENTARY REQUEST *

Previously appropriated \$
Change in appropriation requested (over-run) \$

3. Financing: ☒ Purchase ☐ Lease ☐ Rental
4. Account: ☐ Operating ☒ Capital
5. Reason for Request:
☐ Replacement ☐ Increased Production ☐ Safety ☐ Cost Savings
☒ Environmental ☐ Exploration ☐ Production ☐ Other
6. Justification for Proposed Expenditure (attached detail to support this request, including IRR, payback, expected useful life, and other appropriate information)

Originator: Erik Madsen

Date of Acquisition/Completion: June/July 1996

Reviewed By: 1. Env. Superintendent: Eh Madsen

4. Corp. Controller:

2. Mine Manager:

5. Chief Financial Officer:

3. Division Controller:

6. V.P. Operations:

AUTHORIZATION

Approved:
President and Chief Executive Officer

Date:

*Supplementary Requests are to required whenever overruns are expected to exceed 10% or \$5,000, whichever is greater.