

To: R. T. Ferrell

FC 112.9

From: J. G. Cole
Date: September 11, 1986

VISTA

Interoffice
Communication

Subject: AFE Request - Improved Resin Silo Valves
Aberdeen Chemical Plant

Attached is an AFE request for \$56,000 to install butterfly valves on sixteen resin silos to prevent resin leakage. The butterfly valve specified has been tested in the plant and proved reliable. The existing slide valves are incapable of providing a leakproof seal. The leaking resin creates an environmental problem when it becomes air-borne.

PVC resin leakage is a recurring problem at the resin silo loading area. Leaking resin is a source of lost revenue, causes resin build-up in the plant's ponds, and is an environmental problem when it becomes air-borne. When the silos are aerated for moisture content removal, PVC resin leaks out of the chute and onto the ground. The cause of the leaks from the existing valves is that the slide gate valves have a metal to metal seating surface, which gives a poor seal. Aeration will provide sufficient pressure to force PVC resin through the closed valve. Repeated valve maintenance has been unable to stop the problem. The new butterfly valves have a rubber (EPDM) seat. The metal to rubber seating surface provides a much tighter seal. Two months of testing on silo 685 and seven months of testing on silo 691 have proved the new butterfly valve successful in stopping resin leaks. A recent inspection showed the valve to be in good condition after this service.

No economics were calculated for this environmental project.

J. G. Cole

J. G. Cole
SENIOR PROCESS ENGINEER

cc: JF, JWW, DWH, TFL, REP, VHM, MLN, RAF
File C 3.5.0

AFE REQUESTImproved Resin Silo ValvesAberdeen Chemical Plant

1. The project cost is based on a definitive estimate by the plant.
2. Money will be committed upon AFE approval.
3. There are no expense items associated with this project.
4. Project completion is expected 6 months after AFE approval.
5. There are no additional operating costs with this project.

Authority for Expenditure

Project Title

Improved Resin Silo Valves

Budget

Project No.

AFE No.

☐ Check if partial AFE

Location

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Aberdeen

☐

Baltimore

☐

LCCP

☐

LCVCM

☐

S & T

☐

OKC

☐

Hammond

☐

LCLAB

☐

R & D

☐

Project Category

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(A) Plant Expansion & Modernization

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(B) Cost Savings - Energy

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(C) Cost Savings - Other

☐

(D) Safety & Health

☐

(E) Maintenance

☐

(F) Product Improvement

☒

(G) Pollution Abatement

☐

Water

☒

Air

☐

Land

☐

Noise

☐

(H) Miscellaneous

☐

(I) Furniture & Fixtures

☐

Source

☐

Budget

☐

Unallocated

☐

Other

Amount Requested

\$56,000

Quarter Budgeted

Amount Budgeted

56,000

☐

1

☐

2

☐

3

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4

Project Description

This project installs butterfly valves on sixteen resin silos to prevent resin leakage. The butterfly valve specified has been tested in the plant and proved reliable. The existing slide valves are incapable of providing a leakproof seal. The leaking resin creates an environmental problem when it becomes air-borne.

Summary of Estimated Cost		Cash and Warehouse Outlay			
		Material		Labor	
TOTAL DIRECT COSTS					
Other Materials		\$33,600	00	\$5,040	00
TOTAL INDIRECT COSTS					
Field Costs				3,460	00
Home Office Costs				8,500	00
Escalation				2,000	00
Contingency				3,400	00
Distribution					
Total		\$33,600	00	\$22,400	00
DAB/BRJ/RTF/DEM/TGG					
Grand Total				\$56,000	00

Approved By

Date

Operations/Mech. Supt.

[Signature]

9-17-86

Mgr./Plant Manager

[Signature]

9-21-86

Approved By

Date

Vice President

Exec. Vice President