CONOCO

A

Interoffice Communication

To : R. E. Lehmkuhl

From : C. L. Miller

Date : August 29, 1979

Subject : AFE REQUEST: PLANT WINTERIZATION

Attached is an AFE request for $64,000 to provide funds for the installation of new heat tracing and insulation in the vinyl areas of the plant.

Freezing conditions in the vinyl reactor areas have resulted in VCM releases to the atmosphere during previous winters. These releases can occur from (1) relief valve discharges caused by receiver, recovery system or vent line freeze ups, (2) seal failures caused by icing (3) emissions from opening lines to clear frozen sections. Any of these releases can be a serious pollution problem.

In addition to potential pollution problems, freeze ups can create hazardous situations in the plant and can result in lost production as demonstrated in early 1979.

This investment will significantly reduce the likelihood of freeze problems.

The cost of the project is based on a definitive cost estimate by the plant. Money will be committed upon AFE approval. Additional operating costs will be negligible. Project completion is expected by December 1979.

Curry L. Miller

Curry L. Miller
Plant Manager

cjt

Attachment

Continental Oil Company
Conoco Chemicals

Authority for Expenditure

A

Project Title
PLANT WINTERIZATION

Budget
Proj. No. ____ AFE No. ____
☐ Check if partial AFE

Location ☒ Aberdeen ☐ Baltimore ☐ Hammond ☐ LCCP ☐ Newark ☐ OKC ☐ VCM ☐ ____

Project Category ☐ Plant Expansion & Modernization ☐ Cost Savings – Energy ☐ Cost Savings – Other ☐ Safety & Health ☐ ____ ☐ Product Improvement ☒ Pollution Abatement: ☐ Water ☒ Air ☐ Land ☐ Noise ☐ Miscellaneous

Requested Capital $64,000 Expense ____

Budgeted Capital ____ Expense ____

Source of Capital ☐ Budget ____ ☐ Over Commitment ____ ☒ Unallocated $64,000 ☐ Transfer ____

Project Description

Funds are requested to provide additional heat tracing and insulation for the vinyl areas of the plant. The winterizing program is necessary to prevent freeze ups in the vinyl area during the winter months. Freeze ups result in increased potential for VCM releases and have resulted in VCM releases in the past.

The project will provide new heat tracing and insulation on piping and equipment which has experienced freeze ups in the past but has not previously been traced and insulated.

Summary of Estimated Cost	Cash and Warehouse Outlay: Material	Labor
Piping	10,000	23,000
Insulation	9,000	13,000
Contingency	6,800	
Escalation	2,200	
Total	28,000	36,000
Grand Total		64,000

Distribution

R. E. Lehmkuhl
Plant (3)
B. R. Johnson
W. H. Harlan
J. A. Begley
R. F. Wilkinson

Approved By	Date
Supt./Mech. Supt S. J. Vincent / JAD	8-29-79
Plant Manager Curry L. Miller	8-29-79

Approved By	Date
Manager of Manufacturing	
Vice President	

18-103 PA, 9-77

AFE No. ____

VAB.0001099121

CONOCO Continental Oil Company
Conoco Chemicals

Authority for Expenditure

Project Title
RECOVERY SYSTEM REVISIONS

Budget Proj. No. A-2 AFE No.

☒ Check if partial AFE

Location ☒ Aberdeen ☐ Baltimore ☐ Hammond ☐ LCCP ☐ Newark ☐ OKC ☐ VCM ☐

Project Category
☒ Plant Expansion & Modernization
☐ Cost Savings — Energy
☐ Cost Savings — Other
☐ Safety & Health
☐
☐ Product Improvement
☐ Pollution Abatement: ☐ Water ☐ Air ☐ Land ☐ Noise
☐ Miscellaneous

Requested Capital $402,000 Expense
Budgeted Capital $385,000 Expense

Source of Capital ☒ Budget $355,000 ☒ Unallocated $47,000 ☐ Transfer
☐ Over Commitment

Project Description

Funds are requested to improve the operation of the plant's recovery systems by 1) installation of a backwash filter to remove solids in the recovery systems and providing for manual flushing of level instruments to improve level control, 2) increasing cooling capacity of the recovery system by installation of larger recirculation pumps on the lead knockout pumps and installing new spray nozzles to improve solids scrubbing and steam condensation and 3) installation of a caustic addition system in each of the three plant recovery systems to reduce corrsion.

Revenues from the project are from maintenance savings on the recovery systems, reduction of downgrading prime grade resin due to high gels, and increased PVC resin production of 1 MM pounds per year due to improved stream factor. These revenues provide the project with a 26.1% DCF rate of return and a discounted payout period of 6.5 years.

Summary of Estimated Cost	Cash and Warehouse Outlay: Material	Labor
Equipment	76,000.00	17,000.00
Other Materials	122,000.00	146,000.00
Sales Tax		3,000.00
Contingency		38,000.00
Total	198,000.00	204,000.00
Grand Total		402,000.00

Distribution
R. D. Gamblin, J. A. Begley, B. R. Johnson, W. H. Harlan, R. F. Wilkinson, Plant (3)

Approved By	Date
Supt./Mech. Supt D. J. Vincent	9-28-81
Plant Manager C L Miller	9-28-81

Approved By	Date
Manager of Manufacturing	
Vice President	

18-103 PA, 9-77

AFE No.

VAB.0001099122