Recommended to Feb 77 Board

EXECUTIVE COMMITTEE ACTION — MEETING OF JANUARY 26, 1977

PROJECT REQUEST
Ethyl Corporation

This Part 1 request approved by Board 2/22/77

Item No.	Project No.
2028	B-2028
Date: 1/10/77	Approp. Request No.: 1

1. Division - Department	2. Location	Project Accounting Location
Manufacturing	Baton Rouge	Baton Rouge Plant

3. Title	4. Primary Justification
VCI Emission Reduction - EPA	Pollution Abatement

5. Project Description

This Part 1 request for $600,000 is for funds to provide part of the facilities required in the Baton Rouge vinyl chloride and polymerization facilities to meet EPA National Emissions Standards for Hazardous Air Pollutants, Standard for Vinyl Chloride. Subsequent requests will be submitted for funds for additional items as scopes are more fully defined. Funds are included in this request to start engineering on future items.

The program outlined to meet the Standard will reduce the number of vinyl chloride emission sources, supply instrumentation to monitor the facilities, and provide appropriate waste collection and disposal facilities.

The primary justification for this project is pollution abatement.

6. Estimated Expenditures	A. This Request	B. Appropriated to Date	C. Future Requests	D. Total Project
a. Fixed Investment	$ 600,000	$	$ Undefined*	$ Undefined*
b. Working Capital				
c. Operations				
d. Other				
Total Project Expenditures	$ 600,000	$	$ Undefined*	$ Undefined*
7. Write-off: Original Cost				
Less: Depreciation				
Less: Salvage Value				
Net Write-Off	$	$	$	$

8. Included in Capital Budget? ☐ No ☒ Yes — What Year? 1977 — Ref. No.
If Substitution, give effect on return — Amount $1,800,000

9. Patents
Project will be examined for any patentable features

10. Forecast Disbursements-Fixed Investment	
This Year '77	$ 600,000
Subsequent years	---
Total	$ 600,000

11. Economic Summary-Based on Standard Calculation-If Alternate(s) Used, Attach Details	This Request	Total Project
Fixed Investment	$ 600,000	$ Undefined*
Other Expenditures		
Total	$ 600,000	$ Undefined*
After Tax Savings Or Income	$	$
Payout Period	Yrs.	Yrs.
Working Capital Requirements	$	$
Total Capital	$ 600,000	$ Undefined*
Return on Total Capital	%	%
Discounted Rate of Return	%	%

12. Estimated Completion Date: Fourth Quarter 1977

13. Class of Estimate - This Request: Speculative

14. Lease Commitments: Annual Amount / Term: None

EC 2805

15. Remarks and Ultimate Effect

*Total Project expenditure is undefined at this time. Based on a highly speculative scope, an Order-of-Magnitude estimate indicates total project cost could range from $2.5MM to $4.0MM. Compliance is required by October, 1978.

Title	Item No.	Project No.
VCI Emission Reduction - EPA	20281	20281
		Request No. 1

16. Explanation and Economic Justification

This request for $600,000 will provide funds for the following:

1. PVC Plant
   - Purchase of Portable Air Analyzers
   - Vent collection and transfer system for pilot plant
   - Incinerator exhaust gas monitoring system
2. Hydrocarbon Plant
   - Tandem seals for VCI pumps
   - Flare seal system revisions
   - Install cover and liner on wash water collection system
   - Install 20" transfer line from wash water sump to west pond.

ECONOMICS:

Primary justification is pollution abatement. This request continues Ethyl's efforts to comply with OSHA and EPA requirements; it increases Ethyl's capital commitment to this product and, therefore, will require some product price increase to maintain the present profitability.

ENVIRONMENTAL AND ENERGY IMPACT:

The facilities provided by this project will have the following effect on energy, utilities, and chlorinated hydrocarbons:

Electricity consumed	6.6 M KWH/Yr	
Water consumed	300 M Gal/Yr	
Steam consumed	3.4 MM Lb/Yr	
Chlorinated Hydrocarbons Recovered		20 M lb/Yr
Chlorinated Hydrocarbons Incinerated		20 M lb/Yr

These facilities will reduce the quantity of chlorinated hydrocarbons presently being vented to the atmosphere or being discharged in the plant effluent. Burning of vinyl chloride from the pilot plant vent will increase the amount of HCl vented to the atmosphere, but total HCl level should be well below the proposed EPA concentration at the plant boundaries.

CAPITAL PRORATES TO DIVISIONS: Plastics: 66.8% = $401M ICD: 33.2% = $199M

17. Tax Items: Qualifies for Pollution 5-yr. Write-Off ☐ Yes ☒ No

Qualifies for Tax Exemption Certif. ☒ Yes ☐ No — If Special Depreciation Allowance is Available, Describe:

18. Requests Approved By		Other Approvals (Indicate Responsibility)
Division or Dept. Manager (Primary Sponsor) W.F.Armstrong	Co-Sponsor Senior Vice President C.M.Neher	Senior Vice President M.F.Gautreaux
Chief Engineer or Division Engineer (Estimate and Schedule Responsibility) G.S.Roberts	Co-Sponsor Senior Vice President J.M.Gill	Asst.Dir.Mfg.Tech.Services D.E.Park
Manufacturing or Production Manager (Manufacturing Responsibility) W.C.Strader	Co-Sponsor Gen.Mgr. ICD R.A.Moser	
Division Sales Manager (Sales Volume and Price)	Co-Sponsor R. M. Wolbert	
Division Economics Coordinator (Approval of Economics) T.A.Leeper	Co-Sponsor G.E.Rooney	
Division Finance (Finance Review) J.W.Fleniken	Co-Sponsor N.E.Sparks	EC 2806

appr'd Board 12/7 Dy 2/22

PROJECT ESTIMATE
Estimate No. 2231-B

JOB NO. 20281 TITLE VCI Emission Reduction - EPA DATE OF ESTIMATE 1-7-77

New Investment

HC-3 Flare Seal	$67,000	
HC-4 Pump Seals	57,000	
HC-6 Fume Scrubber	223,000	
PVC-8 Continuous Sampling - Incinerator Stack Gases & PVC Plant Leak Detection	77,000	
PVC-10 Pilot Plant Vent	28,000	
PVC-11 Testing Incinerator Stack Gases	22,000	
Total New Investment		$474,000
Reserve		115,000
Escalation		11,000
Project Total		$600,000
Future Requests		Undefined*

RECAPITULATION OF REQUESTED FUNDS

	This Request	Appropriation To Date	Future Requests	Total
Investment	$600,000	-	Undefined	Undefined
Operations	-	-	Undefined	Undefined
Total	$600,000	-	Undefined	Undefined

CLASS OF ESTIMATE: (This Request: Order of Magnitude ☐ Speculative ☒ Appropriation Grade ☐
(Future Requests: Order of Magnitude ☐ Speculative ☐ Appropriation Grade ☐

IMPACT ON ENGINEERING DEPT. BUDGET	Budget Year 1977 Rev. 0 ($M)	Budget Year 1977 Rev. 0 (Man-years)	Future Budget Year 19__ (Man-years)
Engineering Budgeted:	121	3.2	-
Engineering as now forcast:	121	3.2	-
Effect on Budget Add (Decrease)	-	-	-

Check if this project is a substitute for budgeted project ☐

REMARKS: *Future requests are undefined at this time.

EC 2807

Confirmed: [signature] Date: 1/13/77
(Budget)

Confirmed: [signature] Date: JAN 13 1977
(Estimate)