UNION CARBIDE

514 SAFETY DEPT.

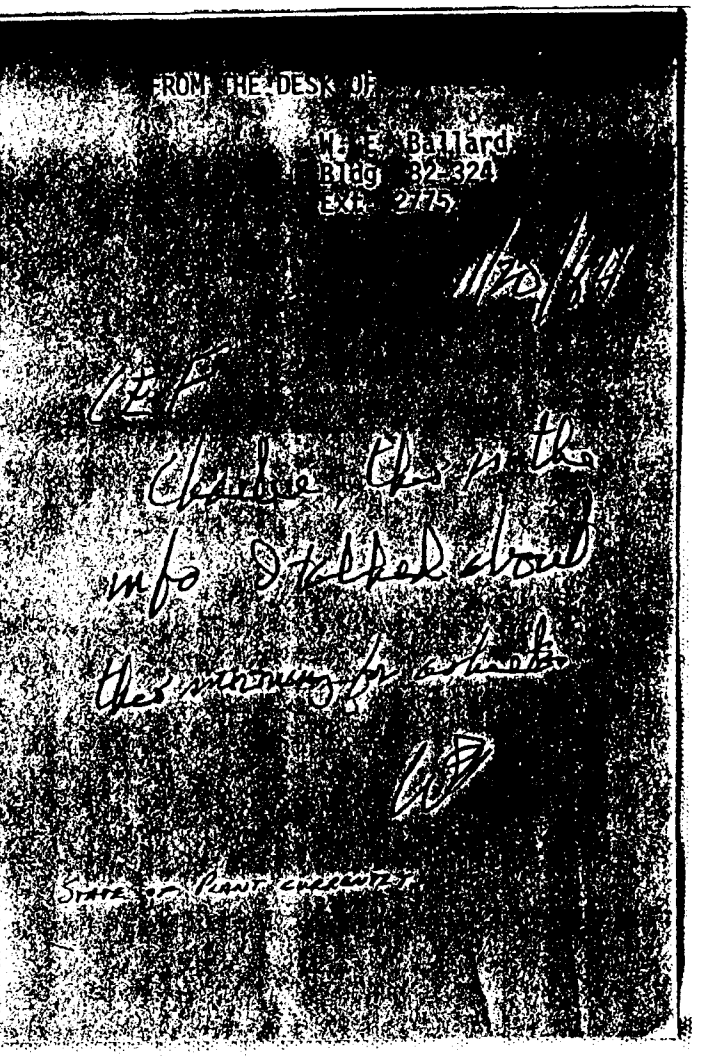
Call John Dean

Asbestos Replacement Project

any job > $50 ea APM can capitalize

PLAINTIFF'S EXHIBIT

UC-4245



UCC 011522

SUI DIVISION
WORKING BUDGET CAPITAL PROJECT REQUEST (CPR)
PROJECTS $20M TO $1,000M

SOUTH CHARLESTON PLANT SUPPORT

ENDORSEMENTS/APPROVAL

ROUTING	SIGNATURE	DATE
1. REQUESTOR		
2. DEPARTMENT HEAD		
3. ASST.PLANT MANAGER		
4. WORKING BUDGET COORDINATOR (WEB/RV)		
5. ENGINEERING MANAGER SUPPORT FACILITIES		

ON APPROVAL, ENGINEERING MANAGER-SUPPORT FACILITIES WILL DISTRIBUTE COPY TO EACH OF THE ABOVE, VICE-PRESIDENT OPERATIONS/TECHNOLOGY, PLANT MANAGER, AND THE ASSOCATE DIRECTOR OF DESIGN ENGINEERING.

LOCATION
- ☐ SISTERSVILLE ☐ TARRYTOWN
- ☑ SOUTH CHARLESTON ☐ TTO
- ☐ _____

PROJECT CLASSIFICATION
- ☑ NEW ☐ REVISION
- ☐ CANCELLATION

TYPE OF PROJECT
- ☐ NEW CAPACITY ☐ REPLACEMENT
- ☐ COST REDUCTION
- ☑ ENVIRONMENTAL/SAFETY
- ☐ NEW/MAJOR CHANGE IN TECHNOLOGY OR PROCESS
- ☐ _____

WOR DISTRIBUTION _____

PROJECT TITLE

OBJECTIVE

JUSTIFICATION WITH AUDIT BASIS

ALTERNATIVES

BRIEF FACILITIES DESCRIPTION

PROJECT ALLOCATION
- ☐ HOST STANDARD
- ☐ PROFIT CENTERS/%

PAYBACK, IF APPLICABLE
MONTHS _____
PAYBACK = CAPITAL PLUS EXPENSE COST DIVIDED BY AVERAGE ANNUAL INCOME OR COST SAVINGS.
ALL CURRENT DOLLARS

PROJECT COST M-DOLLARS

CAPITAL	_____ ± _____	%
REARRANGEMENTS	_____ ± _____	%
RETIREMENTS	_____ ± _____	%
TOTAL	_____ ± _____	%

PROPOSED PROJECT SCHEDULE

FINALIZE SCOPE	_____
SUBMIT WOR	_____
APPROVAL QUARTER	_____
MECH. COMPLETION	_____

UCC 011523

4/22/82

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UNION CARBIDE CORPORATION
Silicones and Urethane Intermediates
Sistersville Plant

OKH-1

CAPITAL WORK ORDER 930-38963

PAGE 1 OF 5

TITLE:
SAFETY & HEALTH - INSULATION
MAINTENANCE DEPARTMENT - (327000)
SISTERSVILLE PLANT

OPR.DPT.SYS. 327000 PROFIT CENTER 915

REQUEST OR JOB NO.: 380-564

SPONSOR: SUI (33)
DEPT: Silicones/Support
PROJECT: J. F. Dodd

BUDGET NUMBER: 83WMSH4

ENDORSEMENT / APPROVAL ROUTING: 1A3A

PROJECT PRIORITY: A.B.C.D.E.X

Sistersville, WV
LOCATION 380

BLDG.NO.

ADMINISTERED BY: XX 464 (AD.CODE 1)
( ) PLANT (AD.CODE 2) ( ) DISTRIBUTION (AD.CODE 3)

TITLE (24 SPACES)	ACCOUNT	ORDER NO.	DATE	AUTHORIZATION
Safety & Health - Insulation	9 3 0 0 0 0	3 8 9 6 3	1 2 1 1 5 3	$500,000

This project provides for the upgrade of critical insulation in the Steam Plant and Monomers Area. Existing exposed asbestos insulation will be repaired or replaced to insure a weatherproof system and correct the safety and health concern of exposed airborne asbestos. Energy Conservation will also be improved because of the improved insulation.

PRINCIPLE TYPE OF PROJECT - REPLACEMENT

NPV H@ n/a %

AUDIT REQ. YES ☒ NO ☐ DATE 12-31-6

CAPITAL COST: RANGE± 10 % CR ISSUE $500,000

LOCAL ENDORSEMENT		SIGNIFICANT IMPACT YES	NO
ENVIRONMENTAL	ELD		x
OCC. HEALTH	KEW	x	
SAFETY	CAM	x	
ENERGY	JAH	x	

INCLUDES:
AIR POLLUTION CONTROL
WATER POLLUTION CONTROL
RESIDUE (SOLIDS) DISPOSAL
OCC. HEALTH $500,000
SAFETY
NOISE CONTROL
TOTAL H.S.& EA

RETIREMENT OF PROPERTY	(1)	838000	
EXPENSE (REARRANGEMENTS, REVISIONS, ETC.)	(2)	838000	

EST.CONSTR.COMP.DATE - 12/31-85 (24 mos. after WO app) TOTAL ESTIMATE $ 500,000

DISTRIBUTION OF APPROVED WORK ORDER:

A. W. Boyd - 380
R. E. Cashdollar - 380
J. F. Dodd - 511
J. W. Foster - 514 (2)
G. R. Hattiangadi - 380
J. L. Lim - DAN
J. E. McDermott - 380
J. C. Nelson - 380
J. D. Panepucci - 380
J. J. Potter - 380
G. M. Rosengarten - 511
T. E. Lawrence - DAN

COST SUMMARY TO: J. C. Nelson (2) - 380

DATE	APPROVALS
12/15/83	JC Nelson for
12/15/83	JF Dodd for
12-15-83	J E McDermott Jr
12-15-83	[illegible]
[illegible]	[illegible]
12/29/83	[illegible]
1/2/84	[illegible]

45-1 (2/82)

UCC 011524

ADDENDUM

Request No. 380-546 December 15, 1983

PROJECT TITLE: SAFETY & HEALTH - INSULATION
MAINTENANCE DEPARTMENT (327000)
SISTERSVILLE PLANT

OBJECTIVE

To minimize hazards of airborne asbestos by replacing and repairing defective asbestos insulation with currently approved insulation.

JUSTIFICATION

Much of the insulation in the Steam Plant and the Monomers Area is asbestos-insulated and in poor condition. The exposed asbestos presents the safety and health hazard associated with airborne particulate asbestos. This project will provide the replacement of all defective asbestos insulation with calcium silicate insulation and a mastic weather barrier (SUI approved standard). Where the weather barrier only is defective, repairs will be made to seal the insulation. The project will minimize personnel exposure to airborne asbestos and will result in a safer health environment.

ALTERNATIVES TO INVESTMENT

Continue operations with the present defective asbestos insulation. Personnel exposure to asbestos will continue.

NEW FACILITIES

All exposed asbestos insulation will be replaced with calcium silicate according to the UCC Specification 2M for the critical area of the Steam Plant and the Monomers Area. Where sealing the insulation only is required, weatherproofing will be repaired.

RISK

Scoping of the job was done expeditiously to mimimize costs and time and so avoid a potentially long (2 month) detailed study. When the project is executed it is probable that minor changes in lengths and insulation thicknesses from the estimate could occur. Additionally, field work will be slow since it involves adhering to safety guidelines which includes clearing of work areas by Plant personnel. Because of the uncertainties involved, work will be monitored and limited so as not to exceed the upper limit (±10%) of dollar authorization.

ENVIRONMENTAL PROTECTION, OCCUPATIONAL HEALTH AND SAFETY CONSIDERATIONS

This project will correct a safety and health concern by repairing or replacing exposed asbestos insulation at the Steam Plant with calcium silicate per UCC Specification 2M. When the insulation is being replaced, safety and health guidelines will be followed, which include: clearing the area of operating personnel and taping it off; insulators wearing fresh air masks; watering down asbestos section by section before removing it; shovelling the removed asbestos into bags before transportation in a dumpster to the landfill. Energy conservation will also be improved because of the improved insulation.

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ADDENDUM

Request No. 380-564 December 15, 1983

ENVIRONMENTAL PROTECTION, OCCUPATIONAL HEALTH AND SAFETY CONSIDERATIONS (Cont'd)

This project has been endorsed by C. A. McNeill, Plant Safety Director, K. E. Williams, Industrial Hygienist, E. L. Doerflein, Environmental Protection Department and J. A. Helm, Utilities Department.

PROJECT TEAM

Sponsor	J. F. Dodd
Project Manager	D. L. Estep
Engineering Representative	C. L. Warner
Maintenance Representative	J. E. Boley

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BASIS OF AUDIT REVIEW

Request No. 380-564 December 15, 1983

PROJECT TITLE: SAFETY & HEALTH - INSULATION
MAINTENANCE DEPARTMENT - 327000
SISTERSVILLE PLANT

AUDIT CRITERIA TO BE USED FOR REVIEW:

	Estimated	Actual
Date of Mechanical Completion	12-31-85	
Date of Initial Operation	12-31-85	
Date of Satisfactory Operation	12-31-85	
Capital Cost	$500,000	

Specific Performance:

All areas with repaired or replaced insulation will have no exposed asbestos.

UCC 011527

TITLE :	REQUEST NO.:
SAFETY & HEALTH - INSULATION MAINTENANCE DEPARTMENT (327000) SISTERSVILLE PLANT	380-564
	JOB NO.: EJ-5954
	ESTIMATED BY: C. A. Eddy/D. L. Estep (12-15-83)

ESTIMATE SUMMARY:

CONSTRUCTION LABOR	-	$277,000
SITE ADMINISTRATION	-	24,900
MATERIAL	-	151,600
ENGINEERING	-	35,600
CONTINGENCY	-	10,900
TOTAL		$500,000

EXPENDITURE FORECAST, M-DOLLARS

1Q84	2Q84	3Q84	4Q84	1Q85	2Q85	3Q85	4Q85
50	75	75	50	50	75	75	50

5/83

UCC 011528

CHT007

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