PLAINTIFF'S EXHIBIT

UC-2122

WV0204 #69

UNION CARBIDE CORPORATION
SPECIALTY CHEMICALS DIVISION
ENGINEERING DEPARTMENT G. T. PAINTER

838 REMOVALS AND RETIRMENTS 838-2
JOB NUMBER NP-1020
PAGE 1 OF 4

TITLE:

ASBESTOS INSULATION CONTROL - PHASE II
SPECIALTY CHEMICALS DIVISION
SOUTH CHARLESTON PLANT

Dept - 115010	PC - 139	5.8	- % of Alloc
121010	324	11.6	
113010	351	14.8	
106010	353	66.5	
064010	147	1.3	

REQUEST OR JOB NO.: 514-0471

SPONSOR: Specialty Chemicals
DEPT: Maintenance
PROJECT: JF Dodd

BUDGET NUMBER: 85WM004

ENDORSEMENT / APPROVAL ROUTING:

PROJECT PRIORITY: A,B,C,D,

LOCATION 514 BLDG.NO. Various

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

TITLE (24 SPACES)	ACCOUNT	ORDER NO.	DATE	AUTHORIZATION
ASBESTOS INSUL CONTROL	3 1 0 0 0	U 2 3 4 0	1 1 1 2 5	$182,000

This project is to provide for the Removal of Asbestos Insulation in the following departments: Specialty Chemicals, Middle Island, Specialty Catalyst, Polyols, and Upper Island. All asbestos insulation will be removed from idle equipment and lines only to minimize the Occupational Health Risk caused by airborne asbestos fibers.

This 838 Removal Request will be administered by the Maintenance Department at South Charleston Plant while the removal work will be performed by contractors.

PRINCIPLE TYPE OF PROJECT OCC HEALTH IMP

NPV MB NA , -- %

AUDIT REQ. YES ☐ NO ☒ DATE --

CAPITAL COST: RANGE± --% CR ISSUE --

LOCAL ENDORSEMENT		SIGNIFICANT IMPACT YES	SIGNIFICANT IMPACT NO
ENVIRONMENTAL	JLW		x
OCC. HEALTH	CEF	x	
SAFETY	CEF		x
ENERGY	TGS		x

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

RETIREMENT OF PROPERTY (1)	838000		$182,000
EXPENSE (REARRANGEMENTS,REVISIONS,ETC.) (2)	838000		--
EPE COST - TO PROFIT CENTER			
EST.CONSTR.COMP.DATE 9/30/86		TOTAL ESTIMATE #	$182,000

DISTRIBUTION OF APPROVED WORK ORDER:

R. J. ANDERSON
J. E. McKEON
W. D. BRADBURY
J. W. FOSTER (2)
G. F. HAYES
M. DWYER
J. L. SIMONS
R. G. LINK
~~G. T. PAINTER~~ BWKop
R. E. McELDOWNEY
J. F. DODD
G. M. ROSENGARTEN,JR(2)
A. WALKER
J. W. HANSGATE
D. H. OTT
L. C. STEWART
C. E. FRY
A. B. WILLIAMSON

DATE	APPROVALS
11-19-85	REMcEldowney
11-22-85	
11/27/85	
12/4/85	
12/12/85	
12/13/85	
12/20/85	
12/20/85	A. Walker

COST SUMMARY TO: REMcEldowney B2-712 (514)

46-1 (2/82)

UCC 006517

OBJECTIVE OF THE PROJECT

The objective of this project is to minimize hazards of airborne asbestos in the Specialty Chemicals, Middle Island, Specialty Catalyst, Polyols, and Upper Island Departments.

JUSTIFICATION

The justification of this project is Occupational Health. The present OSHA Asbestos Standards, 1910.1001, specifies two fibers/cc as the maximum allowable exposure over an 8-hour period.

This project will remove asbestos insulation from idle facilities and lines which will minimize personnel exposure to airborne asbestos.

ALTERNATIVES TO REMOVAL

Continue operations with the present asbestos insulation. Personnel may be exposed to airborne particulate asbestos.

TECHNICAL RISK

There is no technical risk associated with this project.

OCCUPATIONAL HEALTH CONSIDERATIONS

This project will correct an occupational health concern by removing asbestos insulation from idle equipment and lines only in the Specialty Chemicals, Middle Island, Specialty Catalyst, Polyols, and Upper Island Departments. Removal or replacement of asbestos insulation on equipment and lines in active service will be addressed later. When the insulation is being removed, safety and health guidelines will be followed which includes: installing rope barricades and clearing the area of plant personnel; posting of warning signs; proper bagging and disposal of insulation; and monitoring of surrounding work areas. In addition, assuring that contractor personnel adhere to guidelines such as: wet clean-up; wearing of appropriate respirators; wearing and disposal of proper clothing.

ENVIRONMENTAL PROTECTION CONSIDERATIONS

This project will be in compliance with all applicable OSHA and EPA Regulations. The U.S. Environmental Protection Agency will be notified that the removal of asbestos insulation could occur at the South Charleston Plant.

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BASIS OF ESTIMATE

This project estimate is based on man-hour forecasts made by experienced maintenance insulators/supervisors during visual inspections of idle equipment and lines throughout the plant. Labor rates were obtained from a local contractor which includes overhead and profit. The cost estimate was then developed by applying the contractor hourly rates to the man-hours obtained during the visual inspection.

PROJECT PLAN

This request is for the second of three phases for removing asbestos insulation from idle equipment and lines. This request is for the Specialty Chemicals Division and consists of the following departments: Specialty Chemicals, Middle Island, Specialty Catalyst, Polyols, and Upper Island. Other removal requests will be submitted in the future which will cover the Solutions Vinyls Department.

All work associated with this project will be performed by contractors, therefore, the costs will be controlled by obtaining competitive bids. The bids will be firm-price quotes.

Mr. P. G. West and Mr. L. B. Hewitt from maintenance will monitor the work of the contractor to assure completeness of scope and quality of work.

PROJECT TEAM

Maintenance Dept. Representative	P. G. West L. B. Hewitt

1729G

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UNION CARBIDE CORPORATION
SPECIALTY CHEMICALS DIVISION
ENGINEERING DEPARTMENT

TITLE :	REQUEST NO.:
ASBESTOS INSULATION CONTROL SPECIALTY CHEMICALS DIVISION SOUTH CHARLESTON PLANT	JOB NO.: NP-1020
	ESTIMATED BY: PG West/IL Beckett

ESTIMATE SUMMARY:

CONSTRUCTION LABOR	-	
SITE ADMINISTRATION	-	
MATERIAL	-	$143,800
ENGINEERING	-	14,400
CONTINGENCY	-	23,800
TOTAL		$182,000

EXPENDITURE FORECAST, M-DOLLARS

1Q86	2Q86	3Q86					
22.0	120.0	40.0					

5/83

CWT007

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