WV-0204446

PLAINTIFF'S EXHIBIT
UC-2100

UNION CARBIDE

SPECIALTY CHEMICALS DIVISION
ENGINEERING DEPARTMENT

REMOVALS & RETIREMENTS
CAPITAL WORK ORDER 838-2391
JOB NUMBER NP-2147
PAGE 1 OF 3

TITLE:
ASBESTOS INSULATION CONTROL
Upper Island Chemical Complex
SOUTH CHARLESTON PLANT

REQUEST OR JOB NO.: 514-0544

SPONSOR: Solvents & Coatings Mat.
DEPT: Upper Island Chem
PROJECT: J.F. Dodd

BUDGET NUMBER: 86WM673

OPR.DPT.SYS. 064 PROFIT CENTER 80% - 313 20% - 122

ENDORSEMENT / APPROVAL ROUTING:

PROJECT PRIORITY A.B.C.D.

LOCATION 514 BLDG.NO. Various

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

TITLE (24 SPACES)	ACCOUNT	ORDER NO.	DATE	AUTHORIZATION
ASBESTOS INSUL CONTROL	8131810101010		09/26/86	$26,000

This project is to provide for the removal of asbestos Insulation in the Upper Island DAA/MSO facilities ($20.8)and the unused Ethanol DSP facilities($5.2M). All asbestos Insulation will be removed from idle equipment and lines only to minimize the Occupational Health Risk caused by Airborne Asbestos Fibers.

Should the facilities be restarted at a future date the "new" business will be responsible for reinsulating (non-asbestos) the equipment.

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

PRINCIPLE TYPE OF PROJECT OCC HEALTH IMPROV

NPV M$ -- , -- %

AUDIT REQ. YES ☐ NO ☒ DATE

CAPITAL COST:

LOCAL ENDORSEMENT		SIGNIFICANT IMPACT YES
ENVIRONMENTAL	JLW	
OCC. HEALTH	MJS	X
SAFETY	MJS	
ENERGY	TGS	
ENERGY CONSERVA.	TGS	

RETIREMENT OF PROPERTY	911	$26,000
EXPENSE (REARRANGEMENTS, REVISION		
CAPITAL EXCLUSION TO PROFIT CENTE		
EST.CONSTR.COMP.DATE		
	TOTAL $	$25,000

JRD - It will probably get interesting around here when the units start pressing us to commence work on their approved wor And E/P has us in a holding pattern. -LBH

DISTRIBUTION OF APPROVED WORK ORDER

L. C. STEWART
W. D. BRADBURY,JR.
A. LYNCH
G. F. HAYES
R. G. LINK
G. F. PAINTER
G. M. ROSENGARTEN,JR(2)
J. F. DODD
A. B. WILLIAMSON
G. R. HATTIANGADI
V. NICHOL
R. A. MCI
J. P. KLA
D. G. MOS.
D. A. DEC
J. R. DEME...
L. P. BERTI
M. J. SHOGER

APPROVALS

	T. Dodd
	V.C. Stewart
10/2/86	W.D. Bradbury
10/7/86	J.P. Kla
10/8/86	R.G. Link
10/15/86	R.A. McKenney
10/13/86	J.F. Dodd
10/31/86	M.L. Hayes
11/5/86	Charles R Kline

COST SUMMARY TO: J. F. Dodd 82-712 (514)(2)

CAD421 10/11/85

UCC 006418

UNION CARBIDE

SPECIALTY CHEMICALS DIVISION
ENGINEERING DEPARTMENT

REMOVALS & RETIREMENTS
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PAGE 1 OF 3

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PRINCIPLE TYPE OF PROJECT OCC HEALTH IMPROV NPV M$ -- , -- %

AUDIT REQ. YES☐ NO☒ DATE CAPITAL COST:RANGE* -- % CR ISSUE --

LOCAL ENDORSEMENT		SIGNIFICAT IMPACT YES	NO
ENVIRONMENTAL	JLW		X
OCC. HEALTH	MJS	X	
SAFETY	MJS		X
ENERGY	TGS		X
ENERGY CONSERVA.	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	2 3 9 1	$26,000
EXPENSE (REARRANGEMENTS, REVISIONS, ETC.) (2)	838000		
CAPITAL EXCLUSION TO PROFIT CENTER			
EST.CONSTR.COMP.DATE		TOTAL ESTIMATE $	$26,000

DISTRIBUTION OF APPROVED WORK ORDER:
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R. A. MCKENNEY
J. P. KLASS
D. G. MOSHIER
D. A. DECHMAN
J. R. DEMENT
L. P. BERTI
M. J. SHOGER

DATE	APPROVALS
9/26/86	
9/29/86	L. C. Stewart
10/2/86	J R Dement
10/7/86	
10/8/86	
10/15/86	R. A. McKenney
10/22/86	
11/5/86	Charles R Kline

COST SUMMARY TO: J. F. Dodd 82-712 (514)(2)

CAD421 10/11/85

UCC 006419

OBJECTIVE OF THE PROJECT

The objective of this project is to minimize hazards of airborne asbestos in the Upper Island DAA/MSO facilities and the unused Ethanol DSP facilities.

JUSTIFICATION

The justification of this project is Occupational Health. The proposed OSHA Asbestos Standards, 1910.1001, specifies 0.2 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 Upper Island DAA/MSO facilities and the unused Ethanol DSP facilities. Should the facilities be restarted at a future date the "new" business will be responsible for reinsulating (non-asbestos) the equipment. 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.

Union Carbide trial exhibit UC-2100: Removals & Retirements Work Order 838-2391: Asbestos Insulation Control... Published by AsbestosClaims.Law
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BASIS OF ESTIMATE

This project estimate is based on an experienced contractor budget-bid.

PROJECT PLAN

This request is for the Upper Island Chemical Complex, Solvents and Coatings Materials Division.

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. 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	L. B. Hewitt
Plant Engineering - Monitor Costs	A. B. Williamson

2745G

Union Carbide trial exhibit UC-2100: Removals & Retirements Work Order 838-2391: Asbestos Insulation Control... Published by AsbestosClaims.Law
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