

ASBESTOS INSULATION REMOVAL PROJECT

OBJECTIVE OF THE PROJECT

The objective of this project is to minimize hazards of airborne asbestos in the South Charleston Plant.

JUSTIFICATION

The justification ^{for} 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.

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} asbestos insulation from equipment, lines and facilities. 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.

PROJECT PLAN

Initial implementation of this project authorized the removal of asbestos insulation from idle equipment and lines only, as specified in approved "838 Work Order Requests". These areas included:

- Specialty Chemicals
- Middle Island
- Polyols
- Upper Island
- Specialty Catalyst
- Solvent Vinyl Resins

Subsequent "838 and 930 WOR's" have also been approved for removal and replacement of asbestos and temporary insulation at the Oxide Adducts Unit.

The work associated with this project will be performed by outside contractors. Powerhouse Equipment Company is currently on-site performing this activity. Work priorities and schedules will be developed based on the criteria contained in the attached "Asbestos Project Criteria". A preliminary "Schedule for Asbestos Removal" is also attached which reflects individual job status. Through 1987, approximately \$72,000 has been spent on this project. Projected costs to be incurred as a result of this project scope are anticipated to run about \$5 million over the next 3 years.

In order to effectively manage this project, a single individual has been assigned as the "Insulation Contract Coordinator" (Herb Price x2953). The attached job description reflects the initial attempt to define the activities associated with this position. During the next few weeks, Herb will meet with each department head (or designated unit contact) to review individual department requirements in order to develop a composite list of the plant's critical few.

W/H Ending

4/17/87

Schedule For Asbestos Removal

Location	Job No.	Job Description	Starting Date	Finish Date	Man. Hours Estimated	Man Hours Expended
complete 216	201281	Patch & Seal Trunk 273 Asbestos		3-27-87		28
complete 157	193735	strip 48' $\frac{3}{4}$ " Pipe Covering. Asbestos		4-10-87		
complete 150	203321	strip 36' $\frac{1}{2}$ " pipe Covering Asbestos		4-10-87		
complete 117	195337	strip 40' 2" Pipe Covering Asbestos		4-9-87		
complete 133	190642	strip 24' $\frac{1}{2}$ " Pipe Covering Asbestos.		4-13-87		
complete Rack Bld 122	200193	Remove approx 30' double layer insulation (Exp. Loop) in Rack & Reinsulate		4-13-87		34

WK Ending

4/17/87:

Schedule For Asbestos Removal

Location	Job No.	Job Description	Starting Date	Finish Date	Man. Hours Estimated	Man Hours Expended
Bldg 216	193197	Reinsulate Tank 643 & 644, Blast Paint per Est. 24334, scabbed & Material.			760	
101	193795	Strip Asbestos in #101 6 pes 12" Flgs., 18 pe 8" Flgs 12' 1" pipe covering, 1-8" Pump.			96	
102	188681	Strip 175 L.Ft. 1" piping				
216	201306	Remove asbestos in Bldg 103 & 216 Area. 24' Lin.ft. 12" x 12" Duct, 231' 5" Conduit				
216	201307	Strip Insulation and re-insulate Tank 661 & 662 per Est. 23000				
Comp/le 303	200151	Repair & Remove Ins. in Bldg 303. Drumming Area.		3-30-87 3 Worked WK Ends.		131 M.Hrs

Schedule For Asbestos Removal

WK End 4/17/87

Location	Job No.	Job Description	Starting Date	Finish Date	Man Hours Estimated	Man Hours Expended
Bldg 191	190894	Strip & Seal Asbestos Hanging from Lines so. 191 Press Area 180 M.H. to strip & seal Insulation in Rack.			180 M.H.	
Bldg 75	199793	Remove Asbestos inside of Bldg 75 & Replace & Line west of Bldg. 1172 Lin ft.	4-17-87		976 To Strip 1172	
Bldg 36	201091	Strip Back 1' each way to dry Insulation & Reinsulate ETH. Outside line lower Island			404	
N. CHMS	190895	Mis. Insulation at Bulk Term. Disb. N. Chas. Approx. 500 M.H. to strip, Patch Insulation, & Insulate Lines & Eq.	4-13-87	5-15-87	500	
Bldg 323	198912	Remove Asbestos & Replace N.W. Corner No. 7 Dock Approx 40'	4-7-87	4-17-87	64	
Bldg 216	193196	Remove Asbestos from Tank 243 & 644 & Ass. Piping. Remove from 603 & 604. 90' piping 2400 sq ft Asbestos. Approx	4-20-87	6-15-87		

Schedule For Asbestos Removal

Location	Job No.	Job Description	Starting Date	Finish Date	WK Ending Man. Hours Estimated	Man. Hours Expended
Bldg 36	838-2401	Reinsulate #4 & #5 Reactors Piping inside enclosure 1900 sq. Ft. Reactors 1670 Lin. Ft. Piping	On Hold	on Hold	1406	
Bldg 36	930-2030	Strip #4 & #5 Reactors Piping inside enclosure 1900 sq. Ft. Reactors 1670 Lin. Ft. Piping	3-23-87 on Hold	on Hold	2206	328.5
Bldg 109	192731	Remove asbestos on 1st Flr Replace Approx. 200' Lin Ft.	3-17-87 stripped			142.1
Bldg 156	195339	Strip asbestos on Tanks 4201, 5051, 5052, 5115, 4011 Remove ins. on piping inside East of Bldg. 1486 sq. ft. 1901 Lin. Ft. Piping	4-1-87	6-15-87	2552	811
Bldg 42	192730	Reinsulate Eth. Oxide Lines #42.	3- -87			88
Bldg 42	201583	Asbestos Removal Bldg 42 & Tank Farms. 528	4-1-87			21

4-17-87

Schedule For Asbestos Removal

Location	Job No.	Job Description	Starting Date	Finish Date	Man Hours Estimated	Man Hours Expended
Bldg 151 to Complete	192464	strip asbestos 40' lin. Ft. 4" Pipe Covering		4-10-87		
151	1994571	strip asbestos, 12' $\frac{1}{2}$ " 3' 1" P.C. 4' 16" Piping			24	
West 36	201116	strip asbestos from Evaporator in field. 135 sq ft.			32	
Complete 91146	200469			4-10-87		80
196	192482					106