PLAINTIFF'S EXHIBIT

UC-2329

UNION CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE CORPORATION SOUTH CHARLESTON PLANT

Silicones and Urethane Intermediates P.O. BOX 8004, SOUTH CHARLESTON, WV 25303

To (Name) J.R. Dean

Division

Location

Area

Date 8/14/84

Originating Dept

Area

Copy to

Subject Winterization

To all area 2 Operations Dep. Heads.

Area 2 needs a Winteriaation list for the work you are expecting to need to prevent a freeze up like we had in the 83 & 84 freeze up.

We need this list by 8-24-84, so the list can be gant charted and a workable completion date established.

We need 3 seperate lists as follows with Work requests to perform the work.

One list should be for insulation work that is to prevent freeze ups.

One list to cover Steam traps and tracing.

The other list should be for window paines and doors that require work to prevent freeze ups.

Thanks

J J Ashworth

J.J. Ashworth

UCC 003182

① ~~J.G. SWANSON~~
② J.R DEAN

NEEDED INSULATION WORK

Bldgs 144/149

1. The leg on line to tank 1299 at number 11 switchbank, Also a 1 1/2' section of same line above/west of number 11 switchbank.

2. Following sections of line from tank 1299 to number 22 vaporizer.

   A. 2' section south side number 29 still.
   B. 5' section at number 22 vaporizer feed preheater.
   C. 3' section below vaporizer acid feed motor valve.
   D. 2' section at "I" beam overhead switch #830 (S.E. end York)

3. The following section of number 22 vaporizer residue purge line.

   A. 6' section at condensate pot tie-in.
   B. 6' section west side tank 1283.
   C. 8' section over york panel board.
   D. 8' section over switch gear, east side of York.
   E. 10' section at tank 1401 tie-in.

4. 3' section of tank 1703 acid line to number 13 swicthbank, south of tank 1366.

5. 1401 pumpout line to "I" beam, S.W. tank 1314, 8' section at "I" beam, also same line west side of number 29 still.

6. Tank 1315 pumpout line.

   A. 8' section south of number 29 still.
   B. 6' section downstream of cock valves south of number 29 still (at reducing station).

7. Tank car unloading line at pump suction, number 13 tank car spot.

8. Install the existing insulating blanket on number 1 evap. head on number 28 still.

9. Install the existing insulating blanket on number 23 kettle steam chests.

10. 3 1/2' section of tank 1270 pump discharge (to tank 1271).

11. Tank 1270 suction line.

12. Tank 1271 pump suction and discharge lines.

13. Tank 1271 circ. line at N.E. side of tank.

14. Feed line to number 24 vaporizer from tank 1271 (at feed orifice).

15. Number 24 furnace make line S.E. of tank 1271.

16. Drain legs on chiller trains at condensate pot.

17. Suction and discharge lines, number 29 still decanter B.L. pump.

UCC 003183

NEEDED INSULATION WORK

Bldgs 144/149

18. Tank 1314 circulating/feed line to number 29 still.
19. Suction/discharge lines tank 1401 pump.
20. Line to S.W. side of tank 1299.
21. 1004 line at flange, west of number 11 switchbank.
22. Tank 1261 suction line (south side) (Note: Steam trap needs replacing).
23. Number 22 decanter suction/discharge lines.
24. Line to tank 1405 pump header, west of tank 1412.
25. Feed line to south end number 21 kettle.
26. Transfer line to tank 1366.
27. Suction line from tank 1368, 1369, 1367, 1365 also section of pump suction line.
28. Number 21 still decanter lines (on roof).
29. Number 29 still side make line to tank 1315.
30. Acetic acid line suction to tank 1703 pump and valve on N.E. side of tank.
31. Insulate 1001 line number 14 to number 12 switchbank (Note: Line to be tranced first).
32. Water outlet York gear box cooler.
33. Number 21 still make line (short section next to window) 149-2 and down to number 13 switchbank.
34. Number 21 kettle pump out line.

Additional work may be added to list as job progresses.

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NEEDED INSULATION WORK

Bldg. 135

1. Water line from 2309.
2. Insulate steam line to number 3 still feed preheater.
3. Insulate discharge line from number kettle pump to cooler.
4. Insulate outlet steam from number 2 kettle condensate line.
5. Line to tank 1203 at number 10 switchbank.
6. Insulate lines to converter wash line.
7. Insulate from converter wash line.
8. Steam from number 3 still feed preheater.
9. Insulate water bottom layer line from decanter to number 10 switchbank.
10. New covering over number 2 kettle insulation.

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NEEDED INSULATION WORK

Bldg. 174

East side

1. Evaporators water lines.
2. Steam line to DMV 1 & 2 evaporator.
3. Boiler feed water line to pump seal flushs.
4. 6238 make line (top)
5. 6237-36 make line (top)
6. 6236 suction
7. 6223 suction
8. 6236-37 P. O. line from make pump.
9. Finish number 43 line.
10. Finish 6210 make line.
11. water line to 6240 - 6250.

West side.

1. Water to 6210 jets.
2. Boiler feed water line to pump seal flushes, also line at end of 6210.
3. Charge line to 6210 finsih from 6206
4. 6201 calandria.

UCC 003186

NEEDED INSULATION WORK

Bldgs. 133 & 134

Bldg 133 west side yard.

1. Repair the insulation on the oil lines to and from the merrill oil pumps.

Bldg. 133 inside

1. Repair the insulation on the inlet and outlet merrill oil lines to Number 5 furnace.

Bldg 133 south side

1. Repair the insulation on the steam line to number 5 furnace.

Bldg. 133 east yard

1. Repair the insulation on the stam line to and steam condensate line from tank 1197.
2. Repair the insulation on the steam line on the north side of tank 1197.
3. Repair the insulation on the oil line on the north side of tank 1197.
4. Repair the insulation on the air pot on the east side of tank 1197.
5. Repair the insulation on the water line from the 2309 pump.
6. Repair the insulation on the steam condensate pot and lines.

Building 134 west yard 1st level

1. Repair the insulation on the steam line to number 15 still feed preheater.
2. Repair the insulation on the feed lines to number 11 and 12 converters.
3. Repair the insulation on the feed valves on the bottom of number 11 and 12 converters.
4. Insulate the water lines to the vent drums on number 11 and 12 converters.
5. Repair the insulation on the oil lines from number 11 and 12 converters.
6. Insulate the oil lines in the pipe rack in the west yard.
7. Repair the insulation on the 1224 pump header.
8. Repair the insulation on the steam line to number 11 kettle.
9. Repair the insulation on the steam line to number 4 swtichbank.
10. Insulate the water line to number 4 switchbank.

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Building 134 2nd level west side

1. Repair the insulation on the steam line to the converters.

Building 134 3rd level west side

1. Repair the insulation on top of number 11 converter.
2. Repair the insulation on the oil lines from number 11 and 12 converters.
3. Insulate the make valve on top of number 12 converter.
4. Insulate the steam line to number 12 converter.
5. Repair the insulation on the oil line from the surge tank to the system.
6. Repair the insulation on the make line from number 12 converter.

Buidling 134 4th level west side

1. Repair the insulation on the merrill oil surge tank.
2. Repair the insulation on the steam line to and steam condehsate from the surge tank.

Building 134 North side 2nd level

1. Repair the insulation on the 180 pound and 30 pound steam line at the main header.

Building 134 South yard 1st level

1. Insulate the brine lines to the brine pumps.
2. Insulate and repair the insulation from the brine pumps to and from bldg. 134.
3. Insulate the condensate line from the trap to the sewer from the 600 pound steam line near the brine pumps.
4. Repair the insulation on the 600 pound steam line from number 5 switchbank to bulding 134.
5. Repair the insulation on the steam line at number 6 switchbank.
6. Repair the insulation on the steam line at number 5 switchbank.
7. Repair the insulation on the brine line over tank 1117, 1118, and 1120.
8. Repair the insulation on the river water line at number 3 switchbank.
9. Repair the insulation on the steam line at number 3 switchbank.

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NEEDED INSULATION WORK

Bldgs 133 & 134

Building 134 1st level east yard

1. Repair the insulation on the steam line to number 2 switchbank by tank 1112 and 3 legs by number 2 switchbank.
2. Repair the insulation on the make line from the wash column to number 2 switchbank and from number 2 switchbank to tanks 1107 and 1108.
3. Repair insulation on process water line from number 2 switchbank to 2309 pump.
4. Insulate the water line from inside building 134 to the acetol reactor.
5. Repair the insulation on the steam and water lines on number 1 switchbank.
6. Repair the insulation on the steam line by tank 1101.
7. Repair the insulation on the steam condensate line from number 17, 15, & 14 stills.

Building 134 1st level inside

1. Repair the insulation on the 180 and 30 pound steam headers through the building.
2. Repair the insulation on the steam lines from the header to number 15 and 14 stills.
3. Insulate the number 15 still steam chest.
4. Insulate the steam condensate line from number 15 still to header.
5. Insulate the steam trap on number 17 still.
6. Repair the insulation on the bottom head on number 17 still calandria.
7. Insulate the water leads from the river water strainer to the instrument air kickoff instrument on 2nd floor.
8. Insulate the bottom head and pipe on number 13 still calandria.
9. Repair the insulation on the brine return line.
10. Repair the insulation on the converter feed lines.
11. Repair the insulation on the steam line and calandria on number 16 still.
12. Insulate the steam line to number 12 still calandria.
13. Insulate the steam trap and condensate line on number 12 still.
14. Insulate the condensate line from the calandria on number 16 still.
15. Insulate the steam header valve, the steam tracer lines, and header, and steam trap lines from the traps south end of building 134.

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Building 134 inside 2nd floor

1. Repair the insulation on the steam line valve and DMV to number 16 still.
2. Repair the insulation on the steam line around the valves on DMV to number 12 still.
3. Insulate the steam line and steam condensate on the heater at the south door.
4. Repair the insualtion on the steam line and the water perheater to number 12 still.
5. Repair the insulation on the 180 pound steam line to number 12 vaporizer.
6. Repair the insulation around the valves and DMV on the steam line to number 13 still.
7. Repair the insulation around the valves and DMV on the steam line to number 13 still.
8. Repair the insulation on the feed line to number 11 converter.
9. Repair the insulation on the brine line to the condenser.
10. Insulate the water feed and water leads on water feed to the wash column.

Building 134 inside 3rd level

1. Repair the insulation on the brine line to the VME vent condensate.
2. Repair the insulation on the acetaldehyde vent condenser.
3. Repair the insulation on the 600 pound steam reducing DMV and line.
4. Repair the insulation on the steam line to number 17 still steam jets.
5. Repair the insulation on the steam line to number 13 still steam jets.
6. Repair the insulation on the steam line to number 12 still steam jets.

Building 134 Roof

1. Repair the insulation on the instruments on number 12 still.
2. Repair the insulation on the water line to number 13 still condenser.
3. Insulate the water line to number 13 still jet condenser.
4. Repair the insulation on the steam line to number 13 still jets.
5. Repair the insulation on the steam line to number 17 still jets.
6. Insulate the water line to number 17 still jets.

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MEMO AVOID ORAL INSTRUCTIONS

TO _____

DATE 9-19-84 19 8 _

listed below are things that must be done and keepbook required.

o ARP Insulation Inspection is to be finished no later evening of the day it is assigned.

Item 4 of John Deere letter dated 9-13-84 requires you to report to the township supervisor. You must also report the deficiencies to me which I have to report to John Dean.

o Report to C.R.G. daily the number of acres installed, approximately how many feet of ia covered by the acres and what equipment.

o Winterization is a must, including other type of work than insulation. Work over overtime is necessary as it was work going to be completed by 11-15-84.

o Pat Tom Washington Safety Signal Report, what have we done to identify Asbestos insulation repairs needed. I want you to get with Ernie Smith, Keith, Washington, and to review the weeks and come up with a list of repairs needed.

514-686-D

DO IT THE SAFE WAY

SIGNED _____

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