PLAINTIFF'S EXHIBIT
CT-1586

HILLSBORO A/C PIPE PLANT

Industrial Hygiene Recommendations Follow-Up

Industrial Hygiene Survey, 5/27-30/80
Industrial Hygiene Survey, 11/1-4/80
Industrial Hygiene Survey, 1/28/81
Industrial Hygiene Survey, 10/6/81
Industrial Hygiene Survey, 1/11/82

A-Plant

1. A slitted curtain should be added to the bag opener, where the bags enter the Opener on the conveyor. (11/80)

   STATUS: The curtain has been installed. (6/14/82 - DRH)

2. All latches on the bag opener should be repaired and used by the Mixer Operator. (11/80)

   STATUS: Latches have been installed and are used. (6/14/82 - DRH)

3. General Housekeeping should be upgraded at the Lathe lines, Rework Saw and the Large Coupling Saw to include a thorough cleanup at the end of each shift. (11/80)

   STATUS: Cleanup is being accomplished at the end of each shift. (6/14/82 - DRH)

4. The Engineering Department should be consulted for the improvement of the dust collection system at the finishing lathe lines to remove tailings and dust from inside pipe. The job positions in this area should be sampled regularly to measure the effect of the changes made. (11/80)

   STATUS: Dust hoods have been improved and inside wipers have been installed to improve tailings removal. Position is sampled on a scheduled basis; results forwarded to both Group and Corporate Health and Safety departments. (6/14/82 - DRH)

5. Further samplings should be done at the Crusher and #1 Boring Mill on all sizes of couplings run at this mill. (11/80)

   STATUS: Areas are sampled on a rotational basis. Sampling is scheduled such that data can be collected for all coupling sizes. (6/14/82 - DRH)

6. The Large Coupling Saw should be replaced as soon as feasibly possible, otherwise, the present dust collection system should be redesigned for better efficiency. (11/80)

   STATUS: Improvements have been made to the dust collection fans.
   Position is sampled on a scheduled basis; results are forwarded to both Group and Corporate Health and Safety departments. (6/14/82 - DRH)

7. The fiber surveillance program should be expanded to include more frequent sampling throughout the plant with more emphasis on full day sampling and 8-hour Time Weighted Averages. (11/80)

   STATUS: The program was upgraded 9/81, with more frequent, scheduled sampling being conducted. Results are forwarded to both Group and Corporate Health and Safety departments. (6/14/82 - DRH)

8. Posted required respirator areas should be the Automatic Bag Opener Crusher Area, the #1 Boring Mill and the Large Coupling Saw. (11/80)

   STATUS: Fiber counts show exposure in these areas to be below OSHA specified levels, hence, respirators are not required.
   Areas are sampled on a scheduled basis; results are forwarded to both Group and Corporate Health and Safety departments. (6/14/82 - DRH)

9. Air Silencers should be installed at the lathe lines. (11/80)

   STATUS: Project is presently being worked on. (6/14/82 - DRH)

10. A wall made of sound absorbant materials should be installed between #1 and #2 Boring Mill and/or an application of sound absorbing foam inside each mill. (11/80)

    STATUS: Project is presently being worked on. (6/14/82 - DRH)

11. A sound absorbant panel should be added to the Rework Saw Handle. This should also be done to the Large Rework Saw if it is not replaced in the near future. (11/80)

    STATUS: Not completed as stated. Area has been designated as a required hearing protector area, and all personnel are provided with and must wear the protectors. (6/14/82 - DRH)

12. A sound absorbant foam should be applied to non-wearing surfaces at the Crusher including the hood at the entrance to the Crusher. (11/80)

    STATUS: Presently under study. (6/14/82 - DRH)

13. An installation of sound absorbant barrier walls or curtains should be made throughout the Finishing/Fittings area. (11/80)

    STATUS: Presently under study. (6/14/82 - DRH)

14. Posted required hearing protection areas should be: The Lathes and Testers #2 and #3, the Crusher, #1 Boring Mill, Large Coupling Sae and the Fittings Machine. (11/80)

    STATUS: Areas are posted. (6/14/82 - DRH)

<u>B-Plant</u>

15. The Mandrel Handlers job position should be resampled immediately to better determine the exposure levels in this area. (11/80)

STATUS: B-Plant not in operation.
Noise Level reduction improvements in this area have been made. (6/14/82 - DRH)

16. A constant (daily) surveillance of fiber levels should be made in the B-Plant until the Manufacturing operation is considered normal and all levels are within the OSHA limits. (11/80)

STATUS: B-Plant not in operation. (6/14/82 - DRH)

17. When normal manufacturing operations are acheived a regular surveillance program should be established. (11/80)

STATUS: B-Plant not in operation. (6/14/82 - DRH)

18. A posted required respirator area should be at the Crusher Area and the automatic bag opener. (11/80)

STATUS: Fiber counts for these areas show exposure to be below OSHA specified levels, hence, respirators are not required. Areas are sampled on a scheduled basis; results are forwarded to both Group and Corporate Health and Safety departments. To be resumed when B-Plant resumes operation. (6/14/82 - DRH)

19. A more detailed and extensive study should be made of the noise levels in the B-Plant, including the finsihing line and Crusher. (11/80)

STATUS: B-Plant not in operation. (6/14/82 - DRH)

20. Posted required hearing protection areas should be at the Mandrel Handlers job position and the Crusher Operators job position, which would include the Relief Operator when he is in these areas. (11/80)

STATUS: Will be done when B-Plant resumes operation. (6/14/82 - DRH)

21. A sound absorbant foam should be applied to non-wearing surfaces at the Crusher, including the hood at the entrance to the crusher. (11/80)

    STATUS: This is under study. (6/14/82 - DRH)

22. All fiber spill should be cleaned up immediately and all torn bags taped. (11/80)

    STATUS: Being done. (6/14/82 - DRH)

23. All brooms in all areas of the plant should be eliminated and alternate methods such as oilmops, vacuums and any wet method should be used for cleanup. (11/80)

    STATUS: Oils mops and vacuums are used for cleanups of dust and raw fiber. (6/14/82 - DRH)

24. The use of old felts should be discontinued and old felts should be totally disposed of. (11/80)

    STATUS: Old felts are being disposed of. (6/14/82 - DRH)

25. It is recommended when handling dimethylformamide directly, that employees use appropriate gloves designed for protection against organic solvents. (10/81)

    STATUS: DMF no longer used to clean brass bushings in fittings Area. (6/14/82 - DRH)

26. An engineering feasibility study should be made in the Finishing/Fittings Department to determine if engineering controls can be a cost effective benefit to the employees and to the plant. (1/82)

    STATUS: Control of what? Please specify. (6/14/82 - DRH)

27. Adequate hearing protection is required for equipment operators found to exposures greater than 90 dB. (1/82)

    STATUS: Being done. (6/14/82 - DRH)