PLAINTIFF'S EXHIBIT DUP-2004

OCCUPATIONAL HEALTH SURVEY NO. 1022-H
BEAUMONT WORKS

N. D. Johnson
R. Schmidt — Field Notes — 1981 April 8

Ammonia Area

J-20 Welding Exhaust

The welding exhaust unit in the maintenance shop will not effectively cover the entire area of the welding table. It is recommended that the system be modified to provide effective coverage to the entire area.

Water Treatment

J-21 Chlorine Shed

The breathing air manifold at the chlorine shed is located at the center of the cylinder manifold area. A small chlorine leak had been detected and the area barricaded. Supervision indicated that the breathing air system would be used during repair efforts. The employee would have to enter the barricaded area to connect his respirator to the system. It is recommended that the breathing air manifold be repositioned so employees can use the system without potential exposure to leaks during respirator connection.

P&O Maintenance

J-22 Low Breathing Air Pressure

A portable breathing air cart was in use by a welder. The gauge on the low pressure side of the regulator showed 40 psig supplied to the respirator. The gauge was corroded and not responding properly. Plant procedures call for the pressure to be set at 100 psig. Use of the lower pressure could allow the respirator to be 'starved' for air creating a potential for the respirator to become a negative pressure device, allowing leaks of contaminated air to enter the facepiece and expose the user. It is recommended that the gauge be replaced and the regulator tagged to indicate the proper pressure.

S-23 Ammonia Laboratory

Laboratory hood effectiveness improves dramatically as sources of emission are placed behind 6 inches of the plane of the sash (Engineering Standard H3U). It is recommended that lines be drawn in the hoods of the Ammonia Lab as already done in the hoods of the adjacent labs.

S-24 Spill Prevention

Liquid waste containing acrylonitrile is collected in a container under a laboratory hood in the Petrochem Lab. It is recommended that the container be placed in a catch pan to contain spills.

S-25 Welding Exhausts Hoods

Airflows are checked in 8 inches distance from the center of the hood openings. No actions are required if the airflow reaches 100 fpm and no reachings in other distances are taken if it exceeds 100 fpm. During welding in the P&O shops, the center of the exhaust opening was placed in greater distance than 8 inches. Since no airflow measurement results were posted or the distance was not determined within the required airflow of 100 fpm can be maintained,

S-25 Welding Exhausts Hoods (Cont'd.)

employees could not be sure whether they are adequately protected. It should be considered to give a practical guidance for the welder and post the distance within the required airflow can be maintained.

S-26 Asbestos

Some discrepancies exist in the opinion whether asbestos insulation still be removed by Du Pont employees or only by contractors. Area personnel stated that maintenance work on asbestos insulation is still done by Du Pont employees. The electrical shop would still use respirators which no fit test is performed for. In the boiler house, the remaining asbestos insulation is not identified and labeled (Engineering Standard S4T). Maintenance employees are being informed about the carcinogenicity of asbestos.

It is recommended that a consistent procedure be implemented for the plant and that all involved parties be informed about its contents.

NDJ/RS/fb

DUP 0502294

DU 001938

OCCUPATIONAL HEALTH SURVEY NO. 1022-H
BEAUMONT WORKS

N. D. Johnson
R. Schmidt — Field Notes — 1981 April 9

Hydar® Area

J-27 Welding Exposure

A maintenance welder in the area shop had used a 3M 9920 disposable respirator for protection from zinc oxide fumes while working on galvanized metal. He spoke of having suffered from metal fume fever on one occasion in the past and of other more recent occasions when he felt he was developing similar symptoms. He did not mention if the experiences were related to Du Pont operation, but indicated the respirator helped him. It is recommended that these experiences be investigated for Du Pont causability and appropriate protective equipment provided, if warranted.

S-28 Self-Contained Breathing Apparatus

The pressure of two Scott Air Paks was below the full scale. The straps of both facepieces were not fully extended, and the regulator by-pass valves were open to flush contaminants from the face piece. It is recommended that area personnel be trained to perform the monthly checks properly.

Aniline Area

J-29 Eyewash Station

The eyewash station in the center of the nitrobenzene area did not function properly on initial operation, e.g., low water pressure. On the third attempt it functioned properly. It is recommended that the unit be repaired to function correctly.

S-30 Noise Control

A telephone is situated in a noise zone ($\geq$90 dBA). While calling, employees have to take out their hearing protection. It should be considered to install a noise protection enclosure which allows phoning without hearing protection and without exposure to the noise.

S-31 Gloves

Rubber gloves are required in the spill procedures for protection against several chemicals. At least three different kinds of gloves were in use which were all called 'rubber gloves.' It is recommended that the use of gloves be reviewed on basis of their permeability, this is already planned.

S-32 Self-Contained Breathing Apparatus

A Scott Air Pak with a small cylinder was stored in a case labeled as 30-minutes unit. Even this small cylinder was filled under the full scale. It is recommended that only adequate emergency equipment be provided and personnel be trained to check it properly.

DUP 0502295