BUSINESS CONFIDENTIAL

UNION CARBIDE CORPORATION
ENGINEERING, MANUFACTURING & TECHNOLOGY SERVICES DEPARTMENT
HEALTH, SAFETY AND ENVIRONMENTAL TECHNOLOGY
South Charleston, West Virginia



M E M O R A N D U M

September 18, 1987

TO: Mr. S. E. Illikainen (512)

COPY: Mr. S. W. Clark/Dr. P. R. Kavasmaneck/Mr. H. W. Wegert (511)
Mr. D. F. Gaydos (512)
Mr. R. S. Holmes (511)
Mr. G. R. Kraft (500)
Mr. J. D. Kring (512)
Mr. G. E. Garrett
Mr. R. W. Light (511)
Mr. J. M. Poulson (511)
Mr. R. L. Shomo (512)
Mr. C. Smith (985)
Mr. L. J. Sydenstricker (512)
Mr. R. M. Villers (512)
Mr. W. J. Woomer (512)

FROM: D. C. Kirby

SUBJECT: No. 1 Power House
Operational Safety/Health Survey
Institute Plant

Attached is the final report of the Operational Safety/Health Survey for the No. 1 Power House at the Institute Plant. The survey was conducted during the week of July 27, 1987, and a preliminary report was presented to plant management on August 4, 1987.

During the course of the survey the Team noted many positive indications of management's interest and commitment to the safety and health program which exists at this location. The Team was especially impressed with appearance of the facilities - attesting to the effort which has gone into maintaining the relatively old equipment.

The Team discovered no imminent hazards requiring immediate attention. Boiler combustion safety was identified as a priority concern, and several less serious safety and health concerns were identified as deserving attention.

I would like to express the Team's appreciation for the cooperation afforded us during the survey, and especially to Larry Sydenstricker, who ably guided and assisted during the survey.

D. C. Kirby

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OPERATIONAL SAFETY/HEALTH SURVEY

NO. 1 POWER HOUSE

INSTITUTE PLANT

JULY 27-31, 1987

BY: R. S. HOLMES
D. C. KIRBY
R. W. LIGHT
L. J. SYDENSTRICKER

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LESS SERIOUS HEALTH CONCERNS

LH 1 Asbestos Insulation

Exposed and deteriorated asbestos insulation can be found throughout the facility on pipes, stacks, tanks, etc. The existence of the asbestos and the need for its eventual removal has been recognized by unit management. Some asbestos removal project have been completed, others are in progress. However, many more removal/enclosure or encapsulation projects need to be done. The old insulation is not labeled.

Recommendation

Identify and label asbestos insulation. Asbestos insulation which is exposed and deteriorated should be prioritized for removal. Asbestos insulation that is still functional can either be removed or repaired. If asbestos insulation is recovered, it should be labeled.

LH 2 Noise

A survey of personnel exposure to noise has not been conducted in the last 2 years as required. An engineering noise control survey, however, has been conducted. The latter survey identified several noise sources that operate in excess of 87dBA.

Recommendation

Request a personnel noise survey of the unit. Also follow-up on the recommendation summarized in R. H. Hudson's 4/87 memo including:

a. Acoustic treatment of steam turbine exhaust side expansion joints.

b. Silencers on several electric motors found to exceed 85 dBA.

c. Silencers for the solenoid air discharges on Sonic Ash Shaker.

d. Acoustic insulation of #4 I.D. Gear box.

e. Acoustic insulation of valve/6" discharge piping over to Ethane K.O. Pot.