

INSTRUCTIONS—CANCELS LETTER(S) OF _____ SIGNED BY _____ Form S-418B (9-76)
☐ PERMANENT ☐ ROUTINE ☐ TEMPORARY
 Houston, Texas August 11, 1978

**INDUSTRIAL HYGIENE SURVEY
 PUGET SOUND PLANT**

ERS	HWD	RTR	JPL
	DLC	AWN	
NEW YORK			
AUG 14 1978			
HEALTH DIVISION			
SS	AIG	REG	EDB

PERSONAL & CONFIDENTIAL

Mr. P. C. Templeton
 Anacortes, Washington

A visit to the Puget Sound Plant on June 29-30, 1978, was made in order to further evaluate air sampling data collected for benzene exposures and to conduct a walk-through industrial hygiene survey of the plant. Accompanied by Mr. Jack Drummond, Safety Supervisor, Mr. J. D. Watts of the Houston Industrial Hygiene Group conducted the audit and general survey.

The following recommendations were made to the Puget Sound management in connection with the walk-through survey:

- (1) It was recommended that an exposed asbestos wicking material be covered with some suitable metal lagging on the pipe rack inside the #2 cooling tower chemical shed.
- (2) It is a good safety practice (1910.107 (e) (9)) to follow in that all liquid transfers from a metal drum to a metal container have the drum or barrel properly grounded if the flash point of the liquid is below 100°F. Therefore, it was recommended that a drum of flammable paint thinner be grounded at the paint shop and likewise on a drum of propylene dichloride (flash point 60°F) at the #2 CRU.
- (3) It was recommended that a carbon monoxide alarm system be investigated for the compressed air system used by the sandblasters near the paint shop area; reference OSHA 1910.134 (d) (11). A cost-versus-benefit approach was recommended on installing the above or using bottled breathing air.
- (4) A noise source was found to be associated with the use of the point-of-source exhausters in the welding shop. The noise source seems to be the fan noise which travels down the various ducts to the employee work area and therefore, the exhausters have a less frequent use. It was recommended that this area be further investigated by the plant. Furthermore, please contact Mr. James Stackhouse with Beacon R & T if any additional control measures are needed.
- (5) The tool rest on the grinder in the welding shop should be reset to the proper distance, reference OSHA 1910.215 (4).

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- (6) In association with a previous industrial hygiene survey report (reference R. T. Richards to J. M. Seaman, August, 1976), it was recommended that a material safety data sheet on Turco Cleaner (corrosive) be obtained and eye wash facilities located in the proximity of utilization.
- (7) It was recommended that the working "chlorine gas mask" should be stenciled on the yellow box at the effluent plant for better visibility.
- (8) Due to the use of a number of chlorine cylinders at the effluent plant, a chlorine gas mask station is located at the fire house. This location is predominantly downwind from the chlorine cylinders. Therefore, it was recommended that the mask station be relocated or an emergency action plan implemented.
- (9) With regard to future air sampling for benzene, it was recommended that ceiling limit (fifteen minute samples) determinations be made during tape gauging and sample collection aboard marine vessels at the dock (also, barge loading). Further sampling was also advised at the following locations: (a) truck loading rack-ceiling limit samples, (b) laboratory - technician duties, AK room, and bottle wash room.
- (10) A preliminary ventilation survey of the laboratory showed several hoods to be below the acceptable standards for adequate face (capture) velocity. For most petroleum laboratories, a minimum face velocity of 100-125 feet per minute is recommended; however, more toxic substances require a higher rate. If any further assistance is needed in this area, please consult the Health Division.

In summary, the general audit and walk-through survey indicated that an effective safety and health program was being practiced. I wish to thank the Puget Sound management, especially Messrs. Drummond, Templeton, and Long for their hospitality and cooperation during the visit.

J. D. Watts

JDW/mb

cc: RTR ✓
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