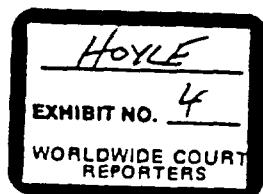


T2.1-21-1

2890

MIDLAND, MICHIGAN
October 26, 1964

R. C. Middleton
Safety Department
Ludington Division



Report file

ST 18-19
also

On 10/7/64, the plant air at Ludington was tested for carbon monoxide and mercury vapors at the sand blast shanty, No. 40 pumphouse and the power house. No indication of mercury vapors was found at any location. Only the first sample of air at the power house showed any indication of carbon monoxide. A concentration of 10 ppm of carbon monoxide was seen. There was an oily odor to the air at this time. A second sample, taken immediately following, showed no carbon monoxide. It can be concluded from this that the plant air is not contaminated with either carbon monoxide or mercury.

Arrangements were made with Walt Jablonowicz to sample once a week for some period of time to check particles which might be carried in the air. This is to be done using Gelman filters and a Gelman filter holder which are enclosed. Various workmen indicated that plant air lines are sometimes contaminated with products as well as oil mist. If this is true, the Gelman filter samples will indicate it by means of a weight change. There is also the possibility that there might be some moisture in the line. If these filters do show a weight increase, it will be necessary to attempt to identify the materials which have been caught.

Any weight change which indicates a concentration of particles in the air greater than 5 mg/m³ of air can be considered significant so far as the need for identification of the material is concerned. Acceptable concentrations above this figure will depend upon the identity of the material in the air. We will be glad to suggest the suitable figure when we are informed of the identity of the materials.

We discussed radiation with Charley Drews and Lee Shipman. It was agreed that we would furnish up to date radiation manuals and information which could be used in discussing the use of radioactive sources and instrumentation. This information is in the mail from Larry Silverstein, our Health Physicist.

A Safety Meeting with the painters, sand blasters and carpenters was held. The subjects covered were silicosis, asbestosis, epoxies, plant air and nickel. We indicated that if the approved sand blasters hoods are used, there should be no problem from silicosis due to sand blasting. There is, at present a program of chest x-rays for workmen. The question was raised as to whether or not the small x-ray taken for the T.B. Survey by the State Health Department was satisfactory for this purpose. The opinion was given that it probably was not.

c 1000102

R. C. Middleton

-2-

10/26/64

The question concerning asbestosis had to do with sawing Transite. Although the dust from such an operation will probably contain respirable particles of asbestos it is highly unlikely that enough exposure would exist in the use of Transite to represent a real hazard.

It was explained to the men that in using the epoxy resins it is necessary that contact with the skin does not occur. We explained that the seriousness of the rash stems from the fact that exposures which appear to be acceptable can result in sensitization and that once a person is sensitized he can no longer work with the epoxies.

We explained that the plant air was free of carbon monoxide and mercury and explained our plan for checking the air for oil mist and other particulate material. There was some discussion concerning the use of an oil trap in the air line. The equipment used in Midland was shown.

The men reported that those who had been involved in sand blasting equipment in the Catalyst Plant had been plagued with rashes which they associated with nickel salts. We stated that there is such a thing as dermatitis due to nickel and that surely the appearance of rashes associated with such contact indicated the need for keeping the material off the skin and for removing it if any contact should occur.

I hope you will forgive the tardiness of this report. My only excuse is that entirely too many demands have been placed on my time since last I saw you.

Best personal regards,



H. R. Hoyle
Biochemical Research Laboratory
1701 Building

HRH:reh

Enc.

21006/b3

SEP 28 1964

SAMPLING METHOD MSA CO OF HG		SAMPLE RATE		PROBLEM 2.1-21-1		BLDG Sawthert		DATE 10-7-64	
TRAPPING MEDIUM				ROTAMETER OR ORIFICE NO.		PROCESS Shanty			
ROTAMETER SETTING			OUTSIDE TEMP Cold		INSIDE TEMP.		MATERIAL		
VENTILATION: outdoors sampled from air line used box 1; to reduce pressure warmed up Hg meter 10 min cal ga									
SAMPLE	BOTTLE	DESCRIPTION	TIME		CONCENTRATION				
			START	STOP					
1		by air at sawthert shanty	11:30		CO H 0 0				
2		Plat air at 40 pump house			0 0				
3		Power house			0 0				
4		Instrument dept BZ			0 0				
5		" " " under cabinet			Hg 10 - 25				
6		Residue Labs 1 + 2							
Talked to walt falloway - checking flint can Label Charlie Drews ant dept Radiation Lee Shipman Paint & sandblasters & Carpenters - safety meeting silicosis asbestosis epoxies (for sets) blast air nickel									

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