Interoffice Communication

cc: JVL

To A. F. Gallagher

From L. G. Peyton

Date April 24, 1974

Subject Personnel Monitoring Program

Objective:

To determine plant personnel exposure to vinyl chloride monomer using portable personnel mounted collection devices. To record, analyze and file the results as a means for controlling VCM levels well below the OSHA standard.

Plan:

The plant will be broken into areas of study in which each job classification will be monitored to include all probable operations which would subject an employee to VCM.

All classifications within the areas will be monitored weekly until the time that the area shows a 3 week history of less than OSHA standard. When a 3 week "Clean History" is attained that area will then be monitored once per month unless a high level is recorded. At the time a high level is noticed the area will be monitored again on a weekly schedule until a "Clean History" (3 weeks less than standard) is developed.

Method:

VCM collection with a charcoal impinger at 1.5 liter/minute for 2 to 4 hour period depending on job activity. Analysis of the recovered gas with a GC to produce VCM in ppm.

Monitoring will be conducted while an employee is in the area of concern and unprotected (i.e. Reactor people will not be monitored while they leave the area for a break. Employees will not be monitored while wearing an air mask).

Data:

All results will be determined by GC in the Aberdeen Analytical Lab and reviewed by Dr. F. J. Scott. He will relay the data to safety director, Bob Freele, who will maintain a filing record as outlined and in accordance with OSHA regulations.

Data taken will relate the employee's name, area worked in, job classification, sample period, sample date, and analytical results. See attachment 1. The safety department will be responsible for completion of the data sheets. The laboratory supervisor, safety driector, and analyst will

Data: (Con't)

acknowledge the results of the test by their signature on the data sheet.

Schedule:

It is the responsibility of the safety department and plant operations to have the dosimeters and personnel available for monitoring as dictated by the schedule and/or necessity.

Area 1

Management Offices
Warehouse
General Maintenance Shop
Instrument/Electrical Shop
Engineering/Drafting Offices
Vinyl Dryer Engr
Lift truck operator
Main Maint Shop

Area 2

Vinyl Blending and Compounding
Plasticizer Operation
Compd. Helper
DryBlend Utility
Dry Blend Operator
Comp. operator
Plasticizer Utility

Area 3

Laboratory
Laboratory Supervisors Offices
Compd. Lab Tech
Quality Control Supervisor
Resins Lab Tech
Resin Lab Tech

Area 4

Yard General
Yard VCM Unloading and Transfer
Yard Resin/Compounding Loading and Unloading
Yard Bulk Container Cleaning
Yard operator

Area 5

Dryer Building
Storage Bin (Tops)
Dry Resin Transfer Systems
Slurry Switching Station
Slurry Storage Tanks
Vinyl dryer Operator
Vinyl dryer Utility

Area 6

V-12 Reactor Building
Maint. Mech
Charge operator
Vinyl Reactor Utility
Recovery Operator

Area 7

V-11 Reactor Building
D-300/400 Reaction Area
Recovery Operator
Charge Operator
Vinyl Reactor Utility
Large Reactor Operator
Vinyl Maint Shop

Schedule: (Con't)

Area 8

V-10 Reactor and Dryer Building Temporary Whse MAW

Monday

Morning -Area 1

A Management Offices (includes Purchasing)
B Warehouse (Utility or Fork Truck Operator)
C Vinyl Bagger

Afternoon - Area 1

D Maintenance Shop
E Engineering/Drafting Office
F Instrument Shop

Tuesday

Morning - Area 2

A Dry Blend
B Compound Operator/Helper
C Plasticizer

Afternoon - Area 3

D Resin Tech
E Compound/Development Tech
F Supervisor

Wednesday

Morning - Area 4

A VCM Unloading and Transfer
B Resin/Compounding Loading and Container Cleaning
C Pond Sampling

Afternoon - Area 5

D Dryer Operation
E Storage Bin Measuring/Resin Transfer Line
F Slurry Line Switching

Thursday

Morning - Area 5

A Slurry Storage Tank Cleaning/Area
B Dryer Utility Clean up

A

Schedule: (Con't)

Thursday

Morning - Area 6

C V-12 Recovery Operator

Afternoon - Area 6

D V-12 Utility
E V-12 Maintenance (General or Instrument)
F V-12 Charge Operator

Friday

Morning - Area 7

A V-11 Utility
B V-11 Recovery
C V-11 Charge

Afternoon - Area 7

D D-300/400 Lead
E D-300/400 A Operator
F V-11 - D-300/400 Maintenance (Include Vinyl Shop)

L. G. Peyton
Senior Process Engineer

SW

cc: EMS, GWP, RWS, LWK, KWC, JES, RJF, FJS, TRL