



ETHYL CORPORATION
PETROLEUM CHEMICALS GROUP
BATON ROUGE PLANT

PLEASE ADDRESS REPLY
TO: BOX 341
BATON ROUGE, LA. 70821

TO: Permanent Representatives of the Vinyl Chloride
Safety Association

The time for the next Vinyl Chloride Safety Association meeting is near. The attached agenda reflects the membership response to the questionnaire sent earlier and should provide a very interesting, informative and valuable meeting.

You will note that there are three (3) slots on the program for presentation of an industry-wide response to questionnaires. These questionnaires are attached. Please complete as soon as possible and send to the address listed on the bottom of each questionnaire or bring the information to the New Orleans meeting.

There is concern that all who plan to attend have not made reservations and may have difficulty making last minute arrangements. The meeting will be held in New Orleans, Louisiana, October 20 and 21 at the Marriott Hotel. You should plan to arrive Wednesday, October 19. Make reservations directly with the hotel. Write or call:

New Orleans Marriott
555 Canal Street
New Orleans, Louisiana 70140
(504) 581-1000

To reduce the early morning registration rush, a preregistration time will be available from 6:00 p.m. - 7:00 p.m., October 19, 1983.

As permanent representative, please distribute copies of the agenda to all who plan to attend the meeting from your company. I look forward to seeing you in New Orleans.

Sincerely,

A handwritten signature in dark ink, appearing to read "H. G. Olson".

H. G. Olson, Secretary
Vinyl Chloride Safety Association

HGO:isd
9/7/83

OCC 4544

VINYL CHLORIDE SAFETY ASSOCIATION MEETING

October 20-21, 1983

New Orleans, Louisiana

October 20, 1983

<u>Time</u>	<u>Subject</u>	<u>Discussion Leader</u>
8:00-8:30 a.m.	Registration and Coffee	
8:30-10:00 a.m.	<u>OLD CASE HISTORIES</u>	
	Thompson Chemical Explosion 1964 (Group discussion on practices with sight glasses)	J. T. Barr - Air Products
	Hooker Burlington Plant Fire 1968	J. A. King - Occidental Chemical
	Goodyear Plaquemine Plant Fire 1972 (Results of Corrective Action Taken to Preventa Recurrence)	C. D. Langlois - BFGoodrich Chemical
	Over-Pressurization of a PVC Reactor	P. Rangnes - Norsk Hydro
	Oxichlorination Explosion	B. Reynolds - PPG
	BFGoodrich Altona Sphere Release (Update of revisions made with VCM storage)	H. Waltemate - BFGoodrich Chemical
10:30-10:45 a.m.	Coffee Break	
10:45-12:00 p.m.	<u>CURRENT CASE HISTORIES</u>	
	Formosa Plastics' Baton Rouge VCM Tank Car Loading Fire July 30, 1983	W. Hager - Formosa Plastics
	Bursting of a Resin Hopper Truck	J. Wallace - Esso Chemical
	Rupture of a VCM line Esso Chemical	J. Wallace -
	VCM Loading Pump Housing Failure	L. White PPG
	Conoco's 1982 VCM Tank Car Derailment and Clean-up in Texas	D. Ashby - Conoco
	Other Current Case Histories	Group

OCC 4545

October 20, 1983 (Cont'd)

<u>Time</u>	<u>Subject</u>	<u>Discussion Leader</u>
12:00-1:30 p.m.	Lunch Vinyl Institute	Roy T. Gottesman Vinyl Institute
1:30-3:00 p.m.	<u>HEALTH</u> Angio Sarcoma Update	J. T. Barr - Air Products
	Similarities of Plants with Multiple Cases of Angio Sarcoma (Group discussion)	J. T. Barr - Air Products M. N. Johnson - BFGoodrich Chemical
	PVC Dust	J. T. Vaughan - ICI
3:00-3:15 p.m.	Coffee Break	
3:15-4:30 p.m.	<u>SAFETY EQUIPMENT</u> Area Monitoring System, Leak Detectors and Personnel Monitoring Equipment	M. Nevill - Dow Chemical
	Valve Position Indicator Switches (Response to questionnaire)	J. H. McCulley - Conoco

OCC 4546

October 21, 1983

<u>Time</u>	<u>Subject</u>	<u>Discussion Leader</u>
8:00-8:30 a.m.	Business Meeting -Election of Officers -Selection of 1984 Meeting Site -Vinyl Institute and Interaction with VCSA	
8:30-9:30 a.m.	<u>SAFETY PROGRAMS</u> Safety Performance Assessment	J. T. Vaughan - ICI
	Plant Evacuation - Planning and Training	T. M. Jones - BFGoodrich Chemical
9:30-10:00 a.m.	<u>PROCESS SAFETY</u> Controlling Runaway Reactions and Emergency Power (Results of questionnaire)	M. J. Bate - Esso Chemical A. Peterson - Georgia-Pacific
10:00-10:15 a.m.	Coffee Break	
10:15-12:00 p.m.	<u>ENVIRONMENTAL - REGULATORY</u> Handling VCM Waste from Small Pilot Plants (Results of questionnaire)	J. Wallace - Esso Chemical
	Update on EPA-OSHA Court Action (Group discussion)	W. C. Holbrook - BFGoodrich Chemical
	Regulatory Update	W. C. Holbrook - BFGoodrich Chemical
12:00-2:00 p.m.	<u>LUNCH</u> Livingston, Louisiana Sept. 28, 1983 Derailment Involving Seven Tank Cars of VCM	Captain W. T. Poe - Louisiana State Police

Adjourn

3509q/kp
9/1/83

OCC 4547

VINYL CHLORIDE SAFETY ASSOCIATION 1983 MEETING

Run-Away Reaction Control Questionnaire

1. Guidelines for response:

- a) Please enter the point at which initial action is taken for each of the following occurrences during a run-away. (N/A implies that no action is taken for this occurrence.)

- (i) Reaction reaches _____ °C above set temperature.
(ii) Reaction reaches _____ psig above set pressure.
(iii) Others _____

- b) Is the response to the above situations automatic? (Y/N) _____

2. Causes:

- a) Please identify the three major causes (in order) of run-away batches:

Charge error _____
Mechanical failure _____
Instrument failure _____
Agitation loss _____
Loss of cooling _____
Formulation _____

Others: _____

3. Control techniques:

- a) Please indicate the order in which the following techniques are applied during a run-away (assuming previous steps were unsuccessful):

Increase reactor cooling _____
Add liquid-phase inhibitor _____
Add vapour-phase inhibitor _____
Dump a portion of the batch _____
Vent to recovery system _____
Vent to atmosphere _____

Others: _____

3. Control Techniques: (Continued)

b) If an inhibitor is used:

- i) Does it control the reaction or kill it? _____
- ii) How many discrete inhibitor injection systems are available? _____
- iii) How is the inhibitor injected? Gravity _____
Pump _____
N₂ pressure _____
Other (specify) _____

c) Does the point at which the reaction runs away affect the control technique? If so, how?

d) Are you completely satisfied with your inhibitor system, or would you like to see improvement?

e) What areas would you like to see improved?

- 1) Reliability _____
- 2) Operability _____
- 3) Toxicity _____
- 4) Product usability _____
- 5) Other reasons _____
and comments _____

4. Power supply:

a) How often is plant power interrupted, on average, per year resulting in loss of agitation? _____ (times/yr)

b) If an extended power failure is experienced, how is agitation restored in order to disperse an inhibitor? (If used):

- i) Back-up power supply _____
- ii) Short, fast venting (ie burping) _____
- iii) Other: _____
- iv) Reactor size _____

4. Power supply: (Continued)

c) If a back-up power supply is available for agitation:

- i) What type is it?
(ie. steam, electrical, other) _____
- ii) What percentage of normal agitation speed does it supply? _____ (%)

d) Are you completely satisfied with your back-up agitation system, or would you like to see improvement? _____

What improvement would you like to see?

5. Frequency of use:

- a) How many batches per year result in run-aways where some action is required? _____
- b) What percentage of the above number of batches result in environmental emissions of VCM? _____ (%)

Please send response by October 14, 1983 to:

Mr. M.J. Bate
Esso Chemical Canada Technology
Plastics Technology Centre
480 South Christina Street
Sarnia, Ontario
Canada
N7T 2P1

Or bring response to meeting in New Orleans.

M.J. Bate/jcd
0063J/jrw

OCC 4550

VINYL CHLORIDE SAFETY ASSOCIATION 1983 MEETING---

Small Pilot Reactor Environmental Questionnaire

This study is aimed to evaluating sound, safe practices for residual monomer disposal from small pilot reactors. i.e., those up to 50 U.S. gallons (0.19 cu.m) which are not covered by the U.S. EPA National Emission Standard.

1. Do you have pilot reactors less than 50 gallons? _____
2. Are these coupled into the plant VCM recovery system? _____
3. If not coupled to plant, is this because of
 - A. Remote location _____
 - B. Safety concerns _____
 - C. Other reasons _____
4.
 - A. Do you vent to atmosphere. _____
 - B. If so, how high a stack. _____
 - C. Do you take any measures to disperse the monomer during venting. _____
 - D. Have you any details of ground level concentrations during venting. _____
5. Do you treat the vented monomer by
 - A. Liquification by compression. _____
 - B. Liquification by cooling. _____
 - C. Carbon absorption. _____
 - D. Liquid absorption. _____
 - E. Flaring. _____
 - F. Incineration and scrubbing. _____
 - G. Catalytic destruction. _____
 - H. Any other method. _____
6. If absorbing do you
 - A. Desorb and recover the monomer in situ. _____
 - B. Move the absorbent to a treatment site. _____
 - C. Treat the absorbent in another way. _____

.../2

OCC 4551

7. Please comment on the safety, effectiveness and/or problems with your procedure.
8. Are there any local regulations covering this type of experimental equipment and/or emissions.
9. Plant location.

Please return completed questionnaires by October 14th to:

Mr. J.R. Wallace
Esso Chemical Canada
Plastics Technology Centre
480 South Christina Street
Sarnia, Ontario
Canada
N7T 2P1

Or bring response to meeting in New Orleans.

J.R. Wallace/jcd
0063J/jrw

VALVE POSITION SWITCH SURVEY FORM

Note: Please fill out a separate survey form for each type of indicator.

Type of Indicator:

_____ Electromagnetic Limit Switch
_____ Inductive Proximity Switch (e.g. metal sensing)
_____ Capacitance Proximity Switch (e.g. any material)
_____ Hall Effect Proximity Switch (e.g. magnetic sensing)
_____ Photoelectric Position Switch (e.g. infrared)
_____ Potentiometer Displacement Sensor
_____ Optical Encode Displacement Sensor
_____ Other (explain): _____

Manufacturer(s): _____

Model Number(s) (if known): _____

Number of switches of this type:

_____ 1-5 _____ 6-20 _____ 21+

Typical number of operating cycles of these switches:

_____ per day _____ per week _____ per month _____ per year

Reliability of Position Switch (mean time between failure):

_____ Months _____ Years

Cause of Failure (e.g. bent indicator arm, slipped magnet, water in switch, shifting of switch by vibration, mechanical damage by personnel, other).

Please list by frequency of occurrence: _____

Maintenance Performed (e.g. alignment, replacement, wiring): _____

Unusual Ambient Conditions (if applicable):

_____ Vibration _____ High/Low Temperatures
_____ Other: _____

Comments on Performance (e.g. good, poor): _____

Please return completed questionnaire as soon as possible to:

John H. McCulley, Jr., Conoco, Inc., Drawer 1267

Ponca City, OK 74603

Or bring response to the meeting in New Orleans.

OCC 4553