

TO: Distribution

DATE: 12/10/89

FROM: Charles R. Parnell

SUBJECT: Vinyl Institute
HSE Meeting

The Vinyl Institute Health, Safety and Environmental Committee met on Wednesday, September 27 at the Boston Marriott Cambridge Hotel in Cambridge, Massachusetts. The discussion was led by W. C. Holbrook of B. F. Goodrich, Chairman of the Committee. Companies represented were Occidental, B. F. Goodrich, Dow, Vista, Borden, and PPG. Meredith Scheck and P. de la Cruz represented the Vinyl Institute.

The following is a summary of the topics discussed concerning Waste Minimization and how it impacts VCM/PVC producers.

1. C. Lunn (Borden) led the presentations with a brief discussion on Thermal Destruction of VCM/EDC with HCL Recycle.
2. F. Jeanson (Vista) continued the presentations with a discussion on procedures used in Bagging Fugitive Emissions.
3. J. Turner (Dow) discussed their AQUADETOX stripping system for Groundwater Remediation.
4. J. Lewis (B. F. Goodrich) followed by reporting on Waste Reduction of Packaging Materials.
5. J. Kachtick (Occidental) discussed Heavy Ends Reduction at a PVC Plant.
6. C. Parnell (PPG) discussed the Team Approach to Wastewater Reduction. (See attachment)

The following Regulatory Activities were discussed and updates were given by M. Scheck and P. de la Gruz.

1. OSHA: EDC PEL Update
2. EPA: Acute Hazardous Events Data Base
3. California Air Resources Board: Draft Report on Vinyl Chloride - VI Comments Filed
4. FO24 Issues (See attachment)
5. SARA Form Rs - 1988 Data (See attachment)
6. SPI V. EPA (Revised Vinyl Standards)

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The Committee discussed several other issues including LABELING of drums, pipelines, etc. An Enforcement Update was given by Joe King. Meredith Scheck gave an Update on Other Institute Activities. The group briefly discussed new business and decided on the date and location of the next meeting. It was decided to meet in Orlando, Florida on January 23, 1990. A key agenda item for the next meeting will be EDC CONTAMINATION OF GROUND WATER.

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VINYL INSTITUTE MEETING

9/27/89

I. INTRODUCTION: CHARLES PARNELL - PPG INDUSTRIES

II. TOPIC: "TEAM APPROACH TO WASTEWATER REDUCTION"

LISTED BELOW ARE THE STEPS TAKEN BY A QUALITY ACTION TEAM TO REDUCE WASTEWATER GENERATED IN THE "DERIVATIVES AREA" AT PPG INDUSTRIES, LAKE CHARLES.

1. TEAM WAS FORMED, CONSISTING OF OPERATORS, OPERATIONS SUPERVISORS AND AN ENVIRONMENTAL COORDINATOR.
2. PROBLEM IDENTIFICATION WAS MADE DURING A QUALITY TRAINING SESSION HELD AT THE LAKE CHARLES COMPLEX.
3. WASTEWATER QAT FOLLOWED THE QUALITY PROCESS:
 - A) DEVELOPED TEAM CONTRACT
 - B) ROTATED SCRIBE AND TIMEKEEPER
 - C) SELECTED TEAM LEADER
 - C) CRITIQUED MEETING
 - D) ASSIGNMENTS
 - E) KEPT MINUTES
4. DEFINED THE PROBLEM

" TOO MUCH WASTEWATER BEING GENERATED IN DERIVATIVES "

WASTEWATER IS STREAMS USED IN THE PRODUCTION OF ORGANIC CHEMICALS SUCH AS VINYL CHLORIDE, TRI-ETHANE, PERCHLOROETHYLENE, AND OTHERS. THESE STREAMS CONTAIN MOSTLY WATER, BUT ARE CONTAMINATED WITH SOME CHEMICALS. ENVIRONMENTAL REGULATIONS REMOVAL OF THESE IMPURITIES BEFORE THE "CLEAN" WATER IS DISCHARGED FROM THE PLANT.

5. PROBLEM DESCRIPTION

- NEW STORAGE TANKS, LIMITED CAPACITY
- ENVIRONMENTAL REGULATIONS: MORE TREATMENT IN 1988 OF ADDITIONAL STREAMS
- 850+ GALLONS PER MINUTE WATER TO BE TREATED
- CURRENTLY HAVE TWO STEAM STRIPPERS ADDING MORE STORAGE CAPACITY OR ANOTHER STRIPPER COST \$\$\$

6. WASTEWATER SURVEY (WATER SOURCES IDENTIFIED)
 - FLOW RATE
 - CONTAMINATION
 - PH
 - CONTINUOUS / INTERMITTENT
 - CROSSMATCHED WITH SOLUTIONS
 - CURRENT STATUS
7. STRATEGIES TO REDUCE WASTEWATER (35 IDENTIFIED)
 - COMBINE
 - ELIMINATE
 - RECYCLE
 - REROUTE
 - EDUCATE
8. WASTEWATER QAT (FIVE RECOMMENDATIONS TO MGNT)
 - REMOVE "CLEAN WATER" ~200 GPM
 - EACH UNIT REVIEW POSSIBLE SOLUTIONS
 - COMPILE LIST OF "WORK TO BE DONE"
 - EDUCATE PEOPLE
 - QAT LOOK AT RECYCLE SYSTEM
9. IMPLEMENTATION AND FOLLOW-UP
 - QAT MEMBERS FOLLOWED WORK, FOLLOW-UP REPORT
 - MADE MARCH 1, 1988 TO DERIVATIVES QLT.
10. WASTEWATER QAT RESULTS OF THE WORK
 - 25% REDUCTION IN WASTEWATER
 - 250 GPM ELIMINATED
 - \$140,000 PER YEAR SAVINGS
 - ENVIRONMENTAL OBLIGATIONS MET