
1995 Consolidated Audit Reactive Chemicals

K.J. Kelley

April 18, 1995

Review Agenda and Package Contents:

- I. November 1994 New Superintendent Review Package**
- II. 1995 Reactive Chemical Audit Questionnaire**
- III. Questionnaire Results**
- IV. Interview Results**
- V. Documentation Audit Results**
- VI. Misc. Rx Chem Topic: Loading Chloroform on Caustic
Last Contained Barges**
- VII. Wrap Up**

Chlorinated Methanes Plant
Pre-Audit

Not Final
Rx Chem Follow up.
Suggestions
4/18/95

1. There is no reactive chemicals contact person for the Methanes plant. This responsibility should be assigned to someone.
2. Consider developing a reactive chemicals IPT module and include all the major worst case scenarios and lines of defense.
3. Summaries of reactive chemicals reviews including the worst case scenarios and lines of defense should be reviewed with the outside operators and boardmen.
4. Job procedures need information listing the reactive chemicals hazards associated with the particular job to be done.
5. Plant personnel need to be trained on the reactive hazard of inadvertently using a titanium part in dry chlorine service. Most did not know when interviewed.
6. Plant communications book could be an excellent means for communicating current reactive chemical issues. We only found one entry pertaining to reactive chemicals (Sealants database info from Kevin Kelley). Information on the incident involving methyl chloride in a tank car with aluminum baffles could not be located.
7. Worst case scenarios for the various sections of the plant are not included with the procedures. Consider either including them with the procedures or include them in the new Dynamic Data Display system.
8. R-250 procedures for dumping spent catalyst: The specific hazard of spontaneous ignition of organic material on the spent alumina is not listed. The comment in the procedures is "because catalyst is so dry, we need to spray water mist on the catalyst as it is being sucked from the reactor to comply with landfill regulations."
9. PSA carbon change out procedures need to be reviewed and the flammability hazard of dry carbon in air needs to be included.
10. A listing and summary of reactive chemicals data was not available for the Methanes plant. This needs to be done and we recommend that the Tech Center assists.

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**1995 Consolidated Audit
Reactive Chemicals**

I. November 1994 New Superintendent Review Package

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CMP REACTIVE CHEMICAL REVIEW

MEETING CALLED BY: Don Taylor

DATE: Thursday, November 10, 1994

New Supt Review

PLACE: Building 4601 Conference Room

START TIME: 8:30

END TIME: 10:00

PARTICIPANTS: CMP Staff, Reactive Chemicals Committee

PURPOSE: Review Reactive Chemicals concerns in the Chlorinated Methanes Products production unit

AGENDA:

<u>TOPIC</u>	<u>FACILITATOR</u>	<u>TIME</u>
Introduction and review of past action items	Bruce Miles	15 min
M1 production unit review	Steve Ledoux	20 min
M2/M3 production unit review	Jim Haney	20 min
Sealants, reactive chem reports, miscellaneous	Kevin Kelley	20 min
Discussion and follow-up	Group	15 min

PREWORK: none

DO A 032510
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To: KKELLEY
CC:
Subj: *

11/10/94 Review Results

To: Gerald Wagner
From: Don Taylor
Subj: Response to Reactive Chemicals Review Recommendations

1. Concerning the inadvertent use of titanium parts in dry chlorine:
 - a. Add a statement to the block safety indoctrination package on the reactive chemical hazards of using titanium parts in dry chlorine service.

Reply: We are currently in the process of updating our block indoctrination. This will be added to the update
Person Responsible: Brian Donatto Due Date: 4/1/95

- b. Consider adding a checksheet that addresses this hazard to maintenance procedures for equipment in chlorine service.

Reply: This will be added as a check in our plant project booklet. We will also advise the area maintenance group to include this in their maintenance procedures.
Person Responsible: Barry Young Due Date: 3/1/95

2. Concerning the reactive chemicals review slides for the Thermal Chlorinator: Add "Evacuation of personnel from reactor area during startup to the lines of defense for avoiding injuries due to a possible delagration/detonation.

Reply: This will be added to the slide.
Person Responsible: Jim Haney Due Date: 3/1/95

3. Consider the following scenario and make sure appropriate safeguards are in place to avoid a runaway decomposition D-1 tar pot is blocked in and 235# steam flow does not shut off. If the decomposition temperature is not known, ARC data should be generated.

Reply: This will be evaluated
Person Responsible: Jim Haney Due Date: 4/1/95

4. Review the materials of construction in the sulfuric acid demister and make sure that they are compatible over the range of temperature and % sulfuric acid that will be encountered in normal and upset conditions.

Reply: This will be reviewed.
Person Responsible: Steve Ledoux Due Date: 4/1/95

Respectfully,

Do Taylor
Plant Superintendent
Louisiana CMP

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