

LOSS PREVENTION AUDIT

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Process Hazard Analysis

Chemical Exposure Index (C.E.I.) Summary for Consolidated Audit

When was the last C.E.I. Review? (Month/Year) JULY, 1992

- A 1. What chemicals were discussed and what were their respective C.E.I. values?

CHEMICAL	C.E.I.	CHEMICAL	C.E.I.
Chlorine #1	288		
Chlorine #2	144		

- B 2. Please list ALL chemicals in your plant that will be reviewed during this audit.

1. Chlorine	4.
2.	5.
3.	6.

- B 3. Please list all chemicals that have potential spill/release scenarios with an ERPG/EEPG-2 hazard distance that exceeds the distance from your plant to the public.

1. Chlorine	4.
2.	5.
3.	6.

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CHEMICAL EXPOSURE INDEX

- B 1. Yes ☒ No ☐ Does the plant have procedures for determining the level of release for emergency communication?
Plans: RL578- "Chlorine Spill Program" Instruction For Use; RL577- "Updating CL2 Spill Program"; RL337 "Spill Reporting".

- B 2. Yes ☒ No ☐ Does the plant use an area monitoring system for the chemicals of CEI concern?

If the answer is YES, list:

Chemical	Detector Type	Detection Level
Chlorine	Dow CL-2WTA-PN	0-5 PPM

How often are these monitors checked, cleaned, and calibrated?
Monthly; Scrubber Probes checked Weekly.

Yes ☒ No ☐ Are plant personnel trained to respond to the alarms from area monitors?

Plans: RL337 - Spill Reporting; RL218 - CL2 Monitors.

- A 3. Have the scenarios for potential chemical spills and gas releases included in this audit been reviewed with:

YES	NO		DATE REVIEWED
	X	Plant Operators/Technicians?	
	X	Supervision?	
	X	Other Affected Employees?	
	X	Process Engineering?	
X		Safety and Loss Prevention?	10/27/94
	X	Adjacent Plant Supervision?	

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Have you reviewed scenarios from neighboring plants that may affect your area with: Part of Block Emergency Plan which is part of Safety Training. Will train people yearly on this.

YES	NO		DATE REVIEWED
X		Plant Operators/Technicians?	
X		Supervision?	
X		Other Affected Employees?	

Plans: _____

- B 4. Yes ☒ No ☐ Does the plant conduct routine, periodic "what if" emergency drills on the release of toxic chemicals?
When was the last drill? Month/Year: 10/27/94
Plans: _____

- B 5. Yes ☒ No ☐ Does the plant have written procedures detailing how to mitigate releases of chemicals in the plant?
(Examples: pump to another vessel, apply foam, temporarily plug hole, etc.)

Yes ☒ No ☐ Does the plant periodically train operating personnel on these procedures?
Plans: _____

- B 6. Yes ☒ No ☐ Are there checklists employed for the periodic inspection, maintenance, and testing of equipment used to mitigate spills or releases?

If yes, list:

Equipment	Last Inspection	Last Test
SC-1 PSV Checklist (Q-4)	10/17/94	10/17/94
SC-2 Emergency Scrubbers	10/29/94	10/29/94
SC-3 EBV Checks	10/30/94	10/30/94
SC-4 Ecology System Check	10/30/94	10/30/94
SC-5 Fire Monitors/Sprayers	10/08/94	10/08/94
Chlorine Monitor Check & Calibrate	10/24/94	10/24/94

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- B 7. Yes ☒ No ☐ Does the plant monitor corrosion/erosion in the piping systems of the facility?
How is monitoring done? Visual Inspections via Pipeway Audit Checklist.
- B 8. Yes ☒ No ☐ Does the plant have areas in the piping system that require constant or repetitive repairs?
- B 9. Yes ☒ No ☐ Does the plant have a preventative maintenance program in place to monitor the integrity of the piping system?
Consider all elements: i.e., paint, insulation, supports, shoes, etc.
Plans: Leak Repair Clamp Inspections/Registration & Pipeway Audit Checklists cover this sufficiently.
- B 10. Yes ☒ No ☐ Does the plant have procedures that define exactly who has the responsibility for the operation, inspection, and maintenance of adjacent and intra/interplant pipelines and associated equipment?
Plans: See Pipeline Checklist in Procedures/Checklist.