

**2003
MTW
Health, Safety &
Regulatory Affairs
Overview**

H-1

4-26-03 Scheduled Maintenance Outage until 5-13-03
5-08-03 HF Valve leak
6-02-03 Fire Line Leak I (Hammered System)
6-02-03 FMB shut down until
7-14-03 HF Release Vaporizer GS weld failure
7-14-03 FMB shut down until 7-24-03
Temporary HF Line Start-Up
7-23-03 Fire Line Break II
7-23-03 FMB shut down until 7-26-03
8-19-03 Fire Line Break III
8-19-03 FMB shut down until 8-21-03
9-9-03 FMB shut down for HF New Line Installation until
*9-9-03 HF Burn Maintenance Person
9-9-03 FMB Shutdown until present
*9-12-03 SbF5 Release
*9-30-03 UF6 Pigtail Flexible Hose leak (1 min.)

9-09-03

Root Cause:

HF Burn to Maintenance Person (South Vaporizer)

Failure to recognize MOC and properly document. (Training)
Special Work Permit not completed for specific job (Training).

9-12-03

Root Cause:

SbF5 Release (Taking a Product Sample)

Training of Operator (Breaker/Relief Operator new this job).

9-30-03

Root Cause:

UF6 Pigtail Flexible Hose leak

No procedure in place to leak test the pigtail connection prior to standard pre-cylinder-fill smoke check with UF6.

How about controls for pigtail/minis
valve (insert for removal) or
blockage?

MOC, Training, Procedures

SHORT TERM:

MOC

Training

Procedures

Maintenance

Integrity

Responsibility

for HS&E

- System Process Hazard Analysis Reviews (PHA) for all areas:
Completed 9/15/03, Corporate Involvement-On-Site
- Review Training Requirements/Enhancements :
Completion of deficiencies found required prior to start-up
- Procedures Review/ Manual Updates for all areas:
Involving operators, supervisors & engineers.
Procedure book updates currently in process.
- Management of Change Review
In process by Process Engineers & Procedure Reviewers
MOC/PT-101 Training for Supervisors & Leadership
- Completion of maintenance action items
Critical Items to be completed prior to start-up.
Start-Up List of Required Items To Repair HSE/Essential Equipment
- Critical Piping Checks
Failure Mode Effects Analysis for PSM piping: Completed 10/01/03
~Corporate & Baton Rouge Plant Involvement On-Site (Experts)
Welding Procedure Enhancement (Corporate Involvement)
Welder Training & Certification Renewal
- HS&E Review of System Breach/Line openings
Special Work Permit Review
Pre-job Hazard Assessment Review
System Configuration Lock out Tag Out Review
PPE Upgrades for line breaks with potential hazard for splash/etc.
- Organizational Changes involving supervisory involvement.
- Plant Manager Town Hall Meetings with Employees
Importance of following procedures and making safety the priority
Corporate Involvement On-Site & Joint Venture President On-Site
- Plant Stand-Down for Several Weeks to complete these activities

Organizational Changes related to 9/9/03 Injury:

Fluorine Products Manger Removed From Duty
Fluorine Products Supervisor Removed From Duty

Nuclear Fuel Services Manager assigned to oversight (Interim)
Experienced Engineer assigned to oversee daily activities (Interim)

LONG TERM:

MOC

Training

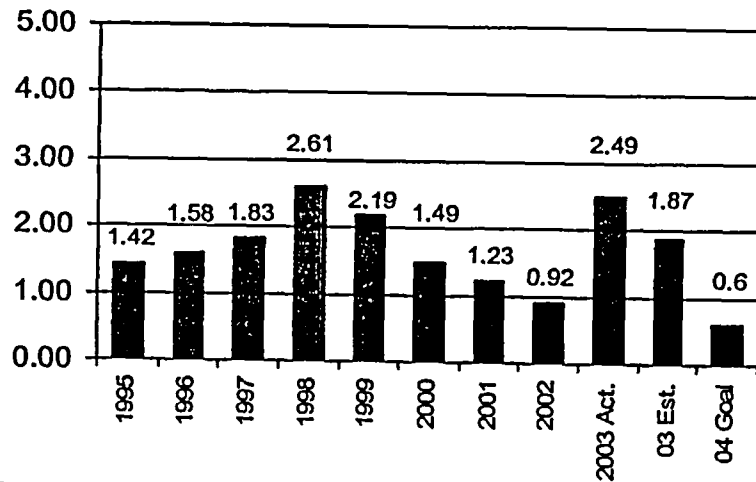
Procedures

Maintenance
Integrity

Responsibility
for HS&E

- Review Training Requirements/Enhancements :
 - Census Addition (2 Trainers)
 - Improve the quality of training programs (Hand's-On, Testing, Structure)
 - Negotiation of Contract Language to improve peer trainer effectiveness
- Safety Review & Involvement:
 - Census Addition (1 Safety Technician)
- Operation Manual Updates:
 - Document Control System Upgrade
- Maintenance Reliability Program Upgrades
 - Census Addition (Piping Expert)
 - On-going commitment to complete action items related to HS&E.
- Ongoing TOP Participation (Union/Salaried)

OSHA Recordable Incident Rate (TCIR)



OSHA	6	7	8	11	8	5	4	3	6	6	2
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Training/Procedures

Update all operating procedures

Create a Training Department

- Require stricter standards be met before qualifying operators
- Establish formal training process for new supervisors, especially around process safety (line breaks, confined space, etc)

Retrain Operations and Maintenance on safety and MOC procedures

Modify PPE requirements for all jobs around PSM chemicals

Require HSE sign off on Maintenance Line breaks (Temporary)

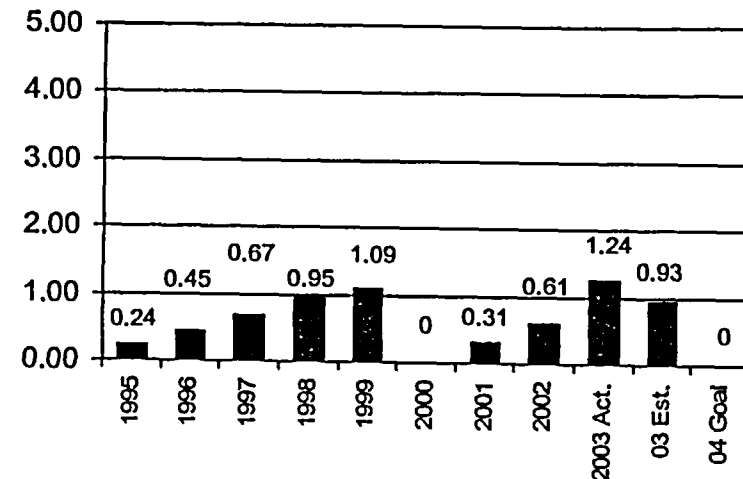
Piping

Review piping specs and construction standards for legacy systems

Repair or replace piping that does not pass thickness checks

Evaluate current certification program for adequacy for welders

Lost Work Day Rate (LWDCAIR)



LWCA	1	2	3	4	4	0	1	2	3	3	0
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PHA Review

Review current PHA re-validations

Implement a process to make P&ID s current with ISA standards

Conduct PHA on SF6 process

Mechanical Integrity

Implement a robust reliability program

- Bring all inspections up to date
- Complete all required repairs due to inspections
- Upgrade reliability test equipment (vibration, alignment, etc)

Implement a standard work permit process across the site

Fix the stores inventory process (shortages, SLOB, expedites, etc)