

**DOW CHEMICAL U. S. AREA
CONSOLIDATED AUDIT PROGRAM**

**POWER II PLANT
LOUISIANA DIVISION
FINAL UPDATE OF THE ACTION PLAN**

OCCUPATIONAL HEALTH AUDIT

ACTION ITEM	DUE DATE/STATUS
GENERAL INDUSTRIAL HYGIENE	
1. Move the coffee pot in the warehouse.	COMP. Daigle 8/93
2. Complete 1992 I. H. Report	COMP. Morrison 9/93
GENERAL MEDICAL	
1. Procedure - Contact medical when an employee transfers into the block.	COMP. Smith 6/94
RESPIRATOR PROTECTION	
1. Update written respirator plan.	COMP. Morrison 12/93
2. Conduct monitoring for ceramic fibers. Include monitoring results in written report.	COMP. Morrison 8/93 COMP. Morrison 10/94
3. Add monthly SCBA inspection to C-9.	COMP. Smith 12/93
VENTILATION	
1. Document weekly/quarterly checks of lab fume hood.	COMP. Morrison 1/94
2. Evaluate sandblast cabinet for cyclone/dust collector.	COMP. Daigle 12/93
3. Post signs in warehouse associated with welding rods used.	COMP. Morrison 8/93
ASBESTOS	
1. Move the packing material to the designated storage area and dispose of any unnecessary packing.	COMP. Daigle 10/93
2. Put a line on the floor designating the boundry of the storage area and move the "Do Not Sweep" sign to the floor.	COMP. Daigle 10/93

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ACTION PLAN(cont.)

REACTIVE CHEMICALS AUDIT

ACTION ITEM	DUE DATE/STATUS
1. Establish a procedure to purge the generators to 2% oxygen before reintroducing hydrogen.	COMP Daigle 8/93
2. Review/amend disposal of fuel gas filters.	COMP. Morrison 11/93
3. Determine if syngas/fuel gas condensate are compatible with each other during upsets.	COMP. Geoffroy 11/93

CHEMICAL EXPOSURE INDEX(CEI)

ACTION ITEM	DUE DATE/STATUS
1. Conduct 1 emergency drill simulating an in-block chlorine release at least once pre year.	COMP. Smith 12/93

HAZARDOUS MATERIAL TRANSPORTATION REVIEW(HMTR)

ACTION ITEM	DUE DATE/STATUS
1. Give Hazcom training concerning chlorine.	COMP. Morrison 12/93
2. Give "First Alert" Training concerning chlorine cylinders.	COMP. Morrison 12/94

SAFETY AUDIT

ACTION ITEM	DUE DATE/STATUS
EMPLOYEE TRAINING	
1. Set goals for taking IPT modules.	COMP. Rozas 12/93
2. Schedule the writing and answers for IPT's.	COMP. Rozas 12/93

ACCIDENT/INCIDENT INVESTIGATION AND REPORTING

1. Become familiar with the "root cause" process.	COMP. Smith 10/93
2. Track accident/incident data to determine needs for special emphasis.	COMP. Smith 10/93

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ACTION PLAN(cont.)

SAFETY AUDIT(cont.)

ACTION ITEM

DUE DATE/STATUS

SAFETY SUGGESTION SYSTEM

1. Consider implementing a safety suggestion program separate from the use of unsafe condition report form. **COMP. Smith 8/93**

AWARD/RECOGNITION SYSTEM

1. Re-evaluate the award program to encourage participation by more people. **COMP. Smith 8/93**

CONTRACTOR SAFETY

1. Develop checklist that documents the pre-job safety conferences including small jobs. **COMP. Daigle 12/93**

OFF THE JOB SAFETY

1. Develop a form that will track off-the-job safety. **COMP. Smith 12/93**

COMMUNICATIONS

1. Audit all forms of operational communications to insure their effectiveness. **COMP. Rozas 12/93**

AUDITS

1. Promote the cross-audit practice. **COMP. Smith 8/93**

SAFE WORK PRACTICES

1. Establish guidelines and timetables for training operators on the 401 job procedures. **COMP. Rozas 4/94**
2. Consider documentation process to insure that all affected people stay up to date on changes in procedures. **COMP. Rozas 4/94**

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ACTION PLAN(cont.)

ELECTRICAL RELIABILITY AUDIT

ACTION ITEM	DUE DATE/STATUS
1. Evaluate the need to rehabilitate the terminal enclosures, sandblast and paint MP-1000(A&B).	COMP. Cooper 12/93
2. Evaluate the need to rehabilitate the terminal enclosures, sandblast and paint P2-1 Syn Bus PT enclosure.	COMP. Cooper 12/93
3. Update grounding grid drawings to "as built". Show missing grounding wells as grounding rods.	COMP. Cooper 12/93
4. Replace the broken well cover.	COMP. Cooper 11/93
5. Reseal terminal connections.	
6. Repair/rehabilitate grounding wells having covers partially covered with concrete and/or difficult to remove.	COMP. Cooper 11/93

LOSS PREVENTION AUDIT

ACTION ITEM	DUE DATE/STATUS
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ELECTRICAL SYSTEM OPPORTUNITIES

1. The replacement of the Fuji bushing has begun. Bus 300 was completed in August 1993. All the syn-bus tie breakers should be complete by the end of the year. Two buses are scheduled during 1994. The final bushing replacement will take place in 1995. **Syn Bus Tie Bkrs. Completed 1993, Bus 4, Bus 200 Completed 1996, Bus 400 Completed 1995, Bus 100 Scheduled 1996 - Craft**
2. Cable bus overheating is being monitored. Plans are in progress to modify the existing cable bus system to allow more heat to escape. H-610 will require a new transposition section which has been ordered and is due to arrive in December. Additionally, all the hot cable buses will have their cable bus covers raised. There are presently three cable buses that are overheating; H-402, H-610, and H-304. All three buses should be modified by the end of the first quarter of 1994. **Completed 12/94. Gleichman**
3. Modification to the relay protection system is in progress. The required changes will be coordinated with plant outages to allow access to different buses. These changes will be on-going in conjunction with the Fuji bushing changes. **12/97. Craft**
4. The station service transformers for 100/200 are on hold until better economic conditions exist due to high cost; Approximately \$700,000. **Scheduled completion date 8/97 Craft.**

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LOSS PREVENTION AUDIT

ACTION ITEM

DUE DATE/STATUS

FIRE PROTECTION OPPORTUNITIES

1. GT-300 louvers will be repaired at the next overhaul. **COMP. Cooper 7/94**
2. The Power Tech Center will be contacted concerning hand held HALON fire extinguishers. **COMP. Cooper 10/93**
3. A champs work order was put into the system concerning "Update of the Power 2 Fire Protection Plot Plan. **COMP. Daigle 12/93**
4. Power 2 will contact Fire Protection Department to schedule a meeting discussing a credible fire scenario for Power 2. **COMP. Daigle 12/93**

FIRED EQUIPMENT OPPORTUNITIES

1. The thermocouple runback and trip requirements have been completed on GT-200. These changes will be made on GT-100 during the next available outage. **COMP. Cooper 1/94**
 2. Vibration trip logic changes are in progress. The changes will require software programming upgrades to the tri-sen systems. GT-200 changes will occur during the first available outage of 1994. The vibration system for GT-100 will have to be upgraded before the changes can be implemented. The GT-100 vibration upgrade project has been approved and is scheduled for completion by the end of 1994. The vibration logic changes will be implemented with the upgrade. **Complete 12/95. Gleichman/Craft**
 3. The compressor efficiency calculation program is due to be reviewed by the end of 1993. **COMP. Geoffroy 12/93**
 4. Methods for monitoring generator shaft voltage are being investigated. Plans are to have a method in place by the end of the first quarter 1994. **COMP. Cooper 2/94**
 5. Procedures for the checkout of relay trip circuits are being written by the distribution department as the jobs come up. The procedures are provided to the plant for review prior to the start of the job. MOC also require that procedures be written. **COMP. Taylor 3/94**
- A copy of the Tech Center audit questionnaire was included in the audit document file. **COMP. Rozas 10/93**

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ACTION ITEM**DUE DATE/STATUS****CRITICAL INSTRUMENT OPPORTUNITIES**

1. The critical instrument test procedures are in the process of being updated and is expected to be completed by the end of the first quarter 1994. **GT-300/400 PROCEDURES COMPLETED. 100/200 PROCEDURES -COMPLETED 10/94. Gleichman**
2. The failure of the tri-sen modules is currently being addressed with tri-sen. Tri-sen repair reports will now identify the component(s) which failed and whether it appears to have been caused by an external event which we can address and correct. **COMPLETED 12/1994. Gleichman**

ACTION ITEM**DUE DATE/STATUS****CRITICAL INSTRUMENT RECOMMENDATIONS**

1. Procedures are being updated to include testing from the sensing element through the operating device where possible. **COMPLETED 10/94 Gleichman.**
2. The procedures are being updated to include the proper settings for each instrument, as well as, the equipment I.D. **COMPLETED 10/94 Gleichman.**

EMERGENCY BLOCK VALVES OPPORTUNITIES

Emergency block valves are manually operated during each extended outage to ensure that they are working properly. In the future, these functional tests will be documented and any corrective actions required will be noted. **PROCEDURES FOR 300/400 BLOCK/ISOLATION VALVES ARE COMPLETE AND BEING USED. 100/200 PROCEDURES COMPLETED 10/94. Gleichman**

WAREHOUSE STORAGE OPPORTUNITIES

Building 3703 warehouse will be repaired/demolished as soon as the economic picture gets brighter. **BOARDS WERE ENCAPSULATED 10/94 - MORRISON.**

PRESSURE VESSELS/RELIEF DEVICES

The recommendations outlined in the audit done earlier. A time schedule is being developed.
COMP. Daigle, Johnson 10/93

FLAMMABLE MIXTURES

The procedure for purging and checking for oxygen depletion prior to putting the fuel gas lines back in service on GT-100/200 is being developed.
COMP. Rozas 8/94

MANAGEMENT OF CHANGE

The MOC program has been reviewed to make it a more active program. **COMP. Rozas 10/93**

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LOSS PREVENTION AUDIT

ACTION ITEM

DUE DATE/STATUS

INSURANCE PACKAGE

1. A "B" size scaled plot plan drawing will be obtained and included the F&EI calculation circles on it.
COMP. Rozas 3/95
2. The insurance information form will be completed and reviewed with loss prevention.
COMP. Rozas 3/95

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