

**DOW U.S. AREA
CONSOLIDATE AUDIT PROGRAM**

**POWER II PLANT
LOUISIANA DIVISION
ACTION PLAN**

OCCUPATIONAL HEALTH AUDIT

ACTION ITEM	DUE DATE/STATUS
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GENERAL INDUSTRIAL HYGIENE

- | | | |
|--|----------------|----------|
| 1. Move the coffee pot in the warehouse. | Patot Daigle | COMPLETE |
| 2. 1992 Report. | Marty Morrison | COMPLETE |

GENERAL MEDICAL

- | | |
|---|----------|
| 1. PROCEDURE - Contact medical when an employee transfers into the block. | |
| Marty Morrison, Gervy Smith | 12/31/93 |

RESPIRATOR PROTECTION

- | | | |
|---|----------------|----------|
| 1. Update written respirator plan. | Marty Morrison | 12/1/93 |
| 2. Conduct monitoring for ceramic fibers. | Marty Morrison | 11/15/93 |
| Include monitoring results in written report. | Marty Morrison | 5/94 |
| 3. Add monthly SCBA inspection to C-9. | Gervy Smith | COMPLETE |

VENTILATION

- | | | |
|---|----------------|----------|
| 1. Document weekly check of lab fume hood. | Marty Morrison | COMPLETE |
| 2. Evaluate sandblast cabinet for cyclone/dust collector. | Patot Daigle | 12/31 |
| 3. Post additional signs in warehouse associated with the type of welding rods used.. | Marty Morrison | 11/30 |

ASBESTOS

- | | | |
|--|--------------|----------|
| 1. Move the packing material to the designated storage area and dispose of any unnecessary packing. | Patot Daigle | 10/31 |
| 2. Put a line on the floor designating the boundary of the storage area and move the "Do Not Sweep" sign to the floor. | Patot Daigle | COMPLETE |

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ACTION PLAN (cont.)

REACTIVE CHEMICALS AUDIT

ACTION ITEM	DUE DATE/STATUS
1. Establish a procedure to purge the generators of air to 2% oxygen before reintroducing hydrogen. Ronnie Daigle	COMPLETE
2. Review/amend disposal of fuel gas filters.Marty Morrison	11/15
3. Determine if syngas/fuel gas condensate are compatible with each other during upsets. David Geoffroy	11/30

CHEMICAL EXPOSURE INDEX(CEI)

ACTION ITEM	DUE DATE/STATUS
1. Conduct 1 emergency drill simulating an in-block chlorine release at least once per year. Gervy Smith	12/31/93

HAZARDOUS MATERIAL TRANSPORTATION REVIEW(HMTR)

ACTION ITEM	DUE DATE/STATUS
1. Give Hazcom training concerning chlorine.Marty Morrison	COMPLETE
2. Give "First Alert" Training concerning chlorine cylinders. Bruce Cooper, Marty Morrison	12/31/93

SAFETY AUDIT

ACTION ITEM	DUE DATE/STATUS
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EMPLOYEE TRAINING

1. Set goals for taking IPT modules. All	COMPLETE
2. Schedule the writing and answers for IPTs.Tommy Rozas	12/31/93

ACCIDENT/INCIDENT INVESTIGATION AND REPORTING

1. Become familiar with the "root cause" process. Gervy Smith	11/30/93
2. Track accident/incident data to determine needs for special emphasis. David Geoffroy, Gervy Smith	COMPLETE

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. **Gervy Smith** **COMPLETE**

AWARD/RECOGNITION SYSTEM

1. Re-evaluate the award program to encourage participation by more people. **Gervy Smith** **11/1/93**

CONTRACTOR SAFETY

1. Develop checklist that documents the pre-job safety conferences including small jobs. **Patot Daigle, Gervy Smith** **11/30/93**

OFF THE JOB SAFETY

1. Develop a form that will track off-the-job safety. **David Geoffroy, Gervy Smith** **11/30/93**

COMMUNICATIONS

1. Audit all forms of operational communications to insure their effectiveness. **Tommy Rozas** **12/31/93**

AUDITS

1. Promote the cross-audit practice. **Gervy Smith** **COMPLETE**

SAFE WORK PRACTICES

1. Establish guidelines and timetables for training operators on the 401 job procedures. **Tommy Rozas** **Done on a yearly bases and will be completed in 1993.**
2. Consider a documentation process to insure that all affected people stay up to date on changes in procedures. **Tommy Rozas** **11/30/93**

ACTION PLAN (cont.)

ELECTRICAL RELIABILITY AUDIT

ACTION ITEM

DUE DATE/STATUS

Note: Bruce Cooper will follow up on electrical items.

1. Evaluate the need to rehabilitate the terminal enclosures, sandblast and paint MP-1000(A & B). 12/31/93
2. Evaluate the need to rehabilitate the terminal enclosures, sandblast and paint P2-1 Syn Bus PT enclosure. 12/31/93
3. Update grounding grid drawings to "as built". Show missing grounding wells as grounding rods. 11/30/93
4. Replace the broken well cover. 11/30/93
5. Reseal terminal connections. 11/30/93
6. Repair/rehabilitate grounding wells having covers partially covered with concrete and/or difficult to remove. 11/30/93

LOSS PREVENTION AUDIT

ACTION ITEM

DUE DATE/STATUS

ELECTRICAL SYSTEMS OPPORTUNITIES

Note: Bruce Cooper will follow up on electrical items.

1. The replacement of the Fuji bushings has begun. Bus 300 was completed in August 1993. All the syn-bus tie breakers should be completed by the end of the year. Two buses are scheduled to be completed during 1994. The final bushing replacement will take place in 1995.
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.
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.
4. The station service transformers for 100/200 are on hold until better economic conditions exist due to the high cost; Approximately \$700,000.

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DUE DATE/STATUS

1. GT-300 louvers will be repaired at the next overhaul.**Bruce NEXT OVERHAUL**
2. Power 2 will follow the Dow guidelines for the phase out of HALON.

1. The Power Tech Center will be contacted concerning hand held HALON fire extinguishers.
Bruce Cooper **10/31/93**
2. A change work order was put into the system concerning "Update of the Power 2 Fire Protection Plot Plan."
Patot Daigle **COMPLETE**
3. Power 2 will contact Fire Protection Department to schedule a meeting discussing a credible fire scenario for Power 2
David Geoffroy **11/30/93**

Note: Bruce Cooper will follow up on fired equipment concerns.

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.
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.
3. The compressor efficiency calculation program is due to be reviewed by the end of 1993.
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 of 1994.
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.

A copy of the Tech Center audit questionnaire was included in the audit documentation file.

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ACTION PLAN (cont.)

ACTION ITEM

DUE DATE/STATUS

CRITICAL INSTRUMENTS OPPORTUNITIES

Note: Bruce Cooper will follow up on critical instrument items.

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.
2. The failure of 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.

CRITICAL INSTRUMENTS RECOMMENDATIONS

1. Procedures are being updated to include testing from the sensing element through the operating device where possible. **12/94**
2. The procedures are being updated to include the proper settings for each instrument, as well as, the equipment I.D. **12/94**

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. **Bruce Cooper 12/31/93**

WAREHOUSE STORAGE OPPORTUNITIES

Building 3703 warehouse will be repaired/demolished as soon as the economic picture gets brighter.

PRESSURE VESSELS/RELIEF DEVICES

The recommendations outlined in the audit done earlier. A time schedule is being developed. **Ronnie Daigle, Wes Johnson 10/31/93**

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. **Tommy Rozas 12/31/93**

MANAGEMENT OF CHANGE

The moc program has been reviewed to make it a more active program. **COMPLETE**

ACTION PLAN (cont.)

ACTION ITEM

DUE DATE/STATUS

INSURANCE PACKAGE

1. A "B" size scaled plot plan drawing will be obtained and include the F&E I calculation circles on it.
Tommy Rozas 1/31/94
2. The insurance information form will be completed and reviewed with loss prevention.
Tommy Rozas 1/31/94