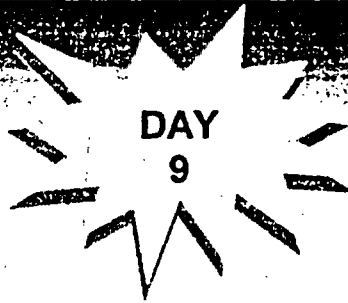




Point Beach Refueling  
Outage Edition



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# U1R28 TODAY

April 12, 2004

### Nuclear

Protected Train  
or Equipment:



Unit 1 A and B Steam Generator Nozzle Dam  
Panels

### Personnel Safety



Last 24  
Hours

Outage to  
Date

Recordable - 0  
Disabling - 0

Recordable - 0  
Disabling - 0

No OSHA Recordable Injuries.

### ALARA



Last 24  
Hours

Outage to  
Date

0.123 R

22.375 R

Dose as of the end of Day 7.

### Accomplishments & Challenges:

Recovery From Human Performance &  
Communications Timeout

### Safety Snippet

#### Outage rubble can lead to trouble

On April 21, 2001, the Point Beach declared an Unusual Event due to a small fire in the Unit 1 containment building during a refueling outage. The fire was in a bag of rags on the manway platform of the Alpha steam generator in Unit 1. The fire brigade was summoned and put out the fire within about 20 minutes.

### Schedule Focus Areas/Priorities

- Refueling Preparations
- 1B RCP Motor Moved to the Stand
- Complete Reactor Head Detensioning
- Reactor Cavity Fill with Rx Head Lift



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### OUTAGE GOALS

| NUCLEAR SAFETY PERFORMANCE  | GOAL               | ACTUAL   |
|---|--------------------|----------|
| Unplanned orange/red paths  | None               | None     |
| Reactor trips (either unit)   | None               | None     |
| Safeguards actuation (either unit)  | None               | None     |
| Loss of shutdown cooling  | None               | None     |
| Loss of Rx vessel level control   | None               | None     |
| INDUSTRIAL SAFETY PERFORMANCE   |                    |          |
| Lost time accidents   | None               | None     |
| Personnel injuries (OSHA recordable)  | None               | None     |
| RADIOLOGICAL PERFORMANCE  |                    |          |
| Radiation exposure (Excludes additional dose from any head or BMI repair contingencies)                     | ≤ 75 R             | 22.375 R |
| Personnel contaminations  | ≤ 18 w/<br>>5K CPM | 5        |
| Radiological events (defined as unplanned uptake w/assigned dose >10 mrem or dose event based on ED alarms) | ≤1 event           | 1        |
| Radmaterial event (defined as any rad material outside RCA ≥ 100 CPM)                                       | ≤1 event           | 0        |

| HUMAN PERFORMANCE   | GOAL  | ACTUAL                          |
|---|---|---------------------------------|
| Security Violations   | ≤ 12 loggable events                            | 1                               |
| Station human performance clock resets  | None  | Hot Leg Vent Control Under Eval |
| Rework  | ≤ 1%  | <1%                             |
| SCHEDULE PERFORMANCE  |   |                                 |
| Outage Duration (excludes extensions due to extended head or BMI inspections) | ≤ 30 days                                       | Challenged                      |
| Mod Implementation  | 100% of Rev 0                                   | On goal                         |
| Schedule Compliance   | > 85% schedule compliance with outage milestone | Challenged                      |
| Emergent work (during implementation)   | ≤ 2% late additions<br>≤ 5% Emergent            | On Goal                         |
| Scope   | Complete ≥ 95% of Rev 0 scope                   | On Goal                         |
| Operator Burdens  | 100% of Scheduled Operator Burdens complete     | On Goal                         |
| Post Outage availability  | ≥ 150 days of continuous operation              | Available at a later date       |
| BUDGET PERFORMANCE  | Within -2% to 0% of outage budget               | Challenged                      |

7-51

**Message from Outage Director  
Process for Commencing Scheduled Outage Work  
Activities on Unit 1 and Common Systems  
(Revision 2 - 4/11/04)**

*Note: Information in this document does not supersede any station procedural requirements.*

Priority and sequence of work activities shall be in accordance with the following:

**First Priority – Increase RCS Inventory and Exit Shutdown Safety Assessment Yellow Conditions on Core Cooling and Inventory**

Scheduled activities required to raise RCS inventory. These activities include but are not limited to those scheduled to support reactor vessel head lift and reactor cavity flood up.

**Second Priority – Focused Specialty Activities**  
Steam Generator Eddy Current and Sludge Lancing  
Main Turbine and Generator Work  
Reactor Vessel Head Inspection

Heat Exchanger Hydro-Lancing and Eddy Current  
**Third Priority – Remaining Scheduled Work**  
Upon Plant Manager approval for commencement of scheduled outage work, the following process will be followed:

- Work activities are selected based on established priority and sequence.
- Primary work group responsible for a selected activity completes a "Unit 1 R28 Recovery and Restart Checklist."
- Outage Control Center validates that the selected activity is appropriately sequenced.
- Operations Outage Coordinator validates that plant conditions will support completion of the selected activity.
- Safety Assessment confirms that the selected activity will not adversely affect the planned Shutdown Safety Assessment.
- The selected activity job supervisor/contract liaison completes the Senior Management Interview with a designated Senior Management Representative.
- The Shift Outage Manager reviews the completed "Unit 1 R28 Recovery and Restart Checklist," resolves any discrepancies and then approves the selected activity for release when the job supervisor/contract liaison communicates to the Shift Outage Manager that the activity is ready to proceed safely, all communications lines are established and functioning, and the single point of contact for the activity is identified.
- The selected activity job supervisor/contract liaison conducts pre-job briefing with all personnel involved in the selected activity using information obtained from the associated "Unit 1 R28 Recovery and Restart Checklist."
- Operations Work Control Center Shift Manager releases the activity to the affected work group for completion.

"Supervisor" is defined as any person designated to direct any of the approved selected activities and includes contract liaisons and contract supervisory personnel.

**Conduct of Business for Scheduled Outage Work  
Activities on Unit 1 and Common Systems that Carry Over  
More than One Shift**

It is imperative that we maintain our process on those activities that carry over across shift change. As such, we must ensure the following sequence-critical concepts are preserved:

1. Activities shall have safe condition hold points pre-defined (i.e. formally in the work document, informally in the pre-job brief, etc).
2. All contract liaisons/supervisors must receive their activity specific senior management interview prior to supervising the selected activity.
3. Personnel assigned to complete an activity must receive a pre-job brief prior to commencing work on the selected activity.

For activities with performance durations that are greater than one shift, the following steps shall be completed in the sequence prescribed below to support scheduled turnover:

1. The associated activity will be placed in a safe condition at one of the pre-defined hold points.
2. The contract liaison(s)/supervisor(s) receive(s) their activity specific senior management interview.
3. The associated contract liaison(s)/supervisor(s) conducts pre-job briefing with all personnel involved in the selected activity using information obtained from the associated "Unit 1 R28 Recovery and Restart Checklist."
4. The activity may then commence.

If it is determined that the nature of a work activity will require work to be performed during scheduled shift turnover, the following additional actions will be pre-identified and coordinated (i.e. supervision and craft brought in early) to support turnover on station:

1. The contract liaison(s)/supervisor(s) receive(s) their activity specific senior management interview.
2. The associated contract liaison(s)/supervisor(s) conducts pre-job briefing with all personnel involved in the selected activity using information obtained from the associated "Unit 1 R28 Recovery and Restart Checklist."

**Human Performance  
Rigorously Challenging Information**

Challenging information is the formalization of a questioning attitude. We must exhibit a questioning attitude during decision-making. The following CAPs document recent incidents where our question attitude was not rigorous enough. Let's learn from them!

**CONTACT INFORMATION**

Control Room Emergency – x2911  
EMT Pager 6442  
Work Control Center – x6703  
OCC - x 7190 - Option 1  
Lessons Learned - x7190 - Option 2  
Plant Status - x7190 - Option 3