

RANCHO SECO
ACTION PLAN FOR RESTART

REPORT FOR THE MONTH OF
MAY, 1987

Prepared By:
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I. HIGHLIGHTS

- Completion of the 'A' Decay Heat Outage represents one of the most significant Restart Milestones attained to date. The outage was completed on May 27, 1987, when the 'A' Train of the Decay Heat System was declared operable following nearly two months of maintenance and modifications work.
- An outage of the 'B' Train of the Decay Heat System was started in May. Modifications work completed under the outage during May includes modification of pipe supports and installation of a Post Accident Sampling System sampling line. Maintenance work started in May includes 'B' Train Motor Operated Valve refurbishment, Nuclear Raw Water pump motor refurbishment, Nuclear Service Electrical Bus maintenance and Emergency Diesel Generator maintenance and upgrades.
- Eight snubbers and five motor operated valves were refurbished in a short "Common" Train Decay Heat Outage.
- Both the '10-Hour' and '24-Hour' loaded runs of the 'A' Trans-america DeLaval emergency diesel generators were completed this month.
- Prerequisite testing of the 'B' Transamerica DeLaval emergency diesel generator was started in May.
- The System Review and Test Program made additional testing progress this month with completion of the following tests; Control Room HVAC (STP-779, 1059, 1061 and M-111), 'BB' Battery Discharge Test and Load Shedding Control Switch Testing (STP 980).
- Site staffing levels have been dropped to 2199.

SUMMARY:

Restart is progressing in accordance with the Action Plan. The NRC and other industry agencies are working closely with us to insure that our commitments meet their needs and will support a safe Restart.

II. INTRODUCTION

This report highlights the progress in implementing the "Action Plan for Performance Improvement" at the Rancho Seco Nuclear Generating Station. This report covers the month of May, 1987.

III. ACTION PLAN PROGRESS

1. Changes and Revision to the Action Plan

The expanded System Review and Test Program (SRTP) is functioning with assigned Systems Engineers for each system. The SRTP consolidates the input from the Plant Performance and Management Improvement Program (PP&MIP) with the system reviews performed by the Systems Engineer and develops a systems testing program to demonstrate plant material readiness.

The entire Quality Tracking System (QTS) database is being overhauled by a task force under an assigned project manager. When this is complete, the aggregate of identified QTS items to be accomplished before restart will comprise the "Scope" of the restart effort. This information will be issued as a portion of the Restart Action Plan Report.

2. New Issues Affecting Restart

- An additional 30 cables were added to the list of 241 cables which were "walked down" to determine proper design location. The increase in sample size to 271 cables was a result of discrepancies found in the 240th cable inspected.
- The reliability of 103 motor operated (MOVs) valves in safety related systems continues to be an important issue. There are 107 MOVs that require refurbishment and 64 are complete. The MOV program is ahead of schedule.

3. Systematic Assessment Program

This program provides the input to the QCI-12 "Plant Performance and Management Improvement Program" (PP&MIP). The program is essentially complete, as shown in the following discussion of each input area.

a. December 26, 1985 Event Analysis

A total of 150 analyses, studies, repairs, and modifications were initiated to investigate and recover from the overcooling event. These resulted in approximately 400 recommendations, which have been identified by the respective managers and system engineers for closure.

b. Precursor Review

A total of 1396 documents, applicable to Rancho Seco, have been reviewed to determine the appropriateness of previous reviews and implementing actions. These also are reflected in management and system-related work lists.

III. ACTION PLAN PROGRESS (Continued)

c. Deterministic Failure Consequence Analysis

This portion of the program generated a series of items which will be closed before Restart. These analyses documented the effect of component failure on system operation, as well as the synergistic effects upon other systems. A total of 1232 recommendations resulted from this analysis program.

d. Personnel Interviews

Interviews with plant personnel resulted in 1631 recommendations and generated actions to be completed prior to Restart.

e. BWOG

The program inputs thus far total 154 recommendations out of 174 currently listed. The remaining inputs will be evaluated according to the QCI-12 process when they are officially received.

4. Management, Operations and Administration

a. Changes in Supervisory and Management Staff:

Efforts are continuing to identify permanent SMUD management individuals for every key position. Both NRC and SMUD realize the importance of employing these managers prior to Restart so that they may function as a cohesive team. The four SMUD Directors reporting to the Assistant General Managers have been named.

b. Changes in Organizational Structure:

Efforts are in full stride to implement the "Ultimate" or permanent nuclear organization by staffing of all nuclear management positions with SMUD people.

5. Plant Modifications and Maintenance Improvements

Actual work is underway on most of the identified modification and maintenance projects. Many items have been completed to support schedule milestones.

6. Systems Review and Test Program

Implementation of the programmatic structure has been initiated with several system related tests completed. Detailed test procedures are being developed.

III. ACTION PLAN PROGRESS (Continued)

7. Non-Action Plan Related Activities

The second phase of the Foothills Fault Seismic Design Study contract has been let to Bechtel Corporation to perform additional trenching. Expected completion is August, 1987.

8. Resource Commitments and Utilization

As a part of the expansion necessary to support the Action Plan, implementation programs have been strengthened or put in place to provide improved management information and control of activities and resources. These efforts allow for the budgeting and allocation of resources, where necessary, to accomplish the commitments of the Action Plan.

During the month of May, 1987, the total staff assigned to the Nuclear Organization decreased by about 10%. On May 30, 1987, there were 855 SMUD employees and 1344 consultant/other contractors assigned to the nuclear organization with a small number of SMUD and consultant personnel assigned to various locations other than Rancho Seco.

Approximate overtime utilization of the staff during the month of April as a percentage of straight time hours worked is as follows:

SMUD	11%
Craft Labor	15%
Consultants/Other Contractors (located at Rancho Seco and submitting site timesheets)	11%

As of May 31, 1987, a total of 2199 people were directly supporting Rancho Seco and the restart effort. On a typical day-shift, approximately 1,800 people are physically present within the security fence.

9. Schedule

There exists potential for schedule delay due to:

- a. Decay Heat System repairs
- b. Cable routing discrepancies
- c. Failures during system tests
- d. Delays in the regulatory process
- e. MOV problems.