



CONNECTICUT YANKEE ATOMIC POWER COMPANY

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March 31, 1988

Docket No. 50-213
B12861

Re: 10CFR50, Appendix R

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Gentlemen:

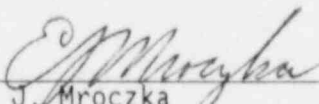
Haddam Neck Plant
Bimonthly Progress Report No. 9
New Switchgear Building Construction

On September 30, 1986, ⁽¹⁾ Connecticut Yankee Atomic Power Company committed to provide the NRC Staff with updated bimonthly progress reports in accordance with the major milestone schedule for construction of the new switchgear building at the Haddam Neck Plant. The purpose of this letter is to provide the NRC Staff with the ninth of these reports. Bimonthly Progress Report No. 9 is included as Attachment 1.

We trust you will find this information satisfactory, and we remain available to assist you in the review of this matter.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY


E. J. Mroczka
Senior Vice President

cc: W. T. Russell, Region I Administrator
J. T. Shedlosky, Resident Inspector, Haddam Neck Plant
A. B. Wang, NRC Project Manager, Haddam Neck Plant

(1) J. F. Opeka letter to C. I. Grimes, dated September 30, 1986, "Haddam Neck Plant, Major Implementation Milestones, New Switchgear Building Construction."

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Attachment 1

Haddam Neck Plant
Bimonthly Progress Report No. 9
New Switchgear Building Construction

March, 1988

Haddam Neck Plant
Bimonthly Progress Report No. 9
New Switchgear Building Construction

SUMMARY

In a letter dated June 30, 1986,⁽¹⁾ the Connecticut Yankee Atomic Power Company (CYAPCO) provided the NRC Staff with the conceptual design information for the new switchgear building at the Haddam Neck Plant, including a description of the new facility. The major milestone schedule for the construction and implementation phases of this project was provided to the NRC Staff in a letter dated September 30, 1986⁽²⁾ which also committed to provide the NRC Staff with bimonthly progress reports. The following is a breakdown of the major activities accomplished and ongoing for the ninth reporting period.

PROJECT SUMMARY

Construction on the new Switchgear Building continued to progress in accordance with the major milestone schedule provided to the NRC Staff in September, 1986. The project remains on schedule and no delays in meeting any milestone is anticipated.

Major design accomplishments during this reporting period included:

- o Issued Revision 0 to PDCR No. 876, Stairtower and Walkways.
- o Issued Revision 0 to PDCR No. 906, New Equipment in Old Switchgear Room.
- o Issued Revision 0 to PDCR No. 917, New Switchgear Building Fire Protection.
- o Obtained PORC approval of PDCR No. 900, New Switchgear Building Raceway.

Significant construction progress was also made on the new Switchgear Building. The four interior columns to Elevation 56'-6" were placed on February 8, 1988, and the south portion of the exterior walls to Elevation

(1) J. F. Opeka letter to C. I. Grimes, dated June 30, 1986, "Haddam Neck Plant, Conceptual Design of the New Switchgear Room."

(2) J. F. Opeka letter to C. I. Grimes, dated September 30, 1986, "Haddam Neck Plant, Major Implementation Milestones, New Switchgear Building Construction."

56'-6" were placed on February 24, 1988. Work is currently in progress on the north portion on these walls and on the installation of structural steel for the roof slab at Elevation 58'-6". Raceway and supports were also installed in the RHR pit. In addition, work continued on the breakup of the existing slab in the Service Building corridor in preparation for installing the ductwork. Details on these and other construction activities are provided in the following sections:

SUMMARY OF MAJOR WORK ACTIVITIES

1.0 Engineering

1.1 New Switchgear Building

Engineering continued to provide technical support for the construction of the new Switchgear Building, including disposition of NCRs and FCNs. The most noteworthy item was a coordinated effort to resolve construction difficulties with a core bore through the PAB and Waste Disposal Building wall. Because of this item, engineering is preparing an action plan on future core bores to anticipate and resolve potential problems.

Embedded unistrut (vs. surface mounting) was added to support the raceways on the third floor in order to reduce construction costs.

1.2 New 4160 V Bus 9 Circuit Breaker Cubicle

Engineering and construction markups have allowed as-built drawing turnovers to start. As-built drawings are expected to be issued shortly.

1.3 Replacement of Station Service Transformers

Engineering and construction markups have allowed as-built drawing turnovers to start. As-built drawings are expected to be issued shortly.

1.4 HVAC and Auxiliaries

Review of vendor submittals for the HVAC equipment and fans continued through this reporting period. Priority is being given to the Air Handling Unit for the third floor, and the first and second floor exhaust fan. The third floor air handler arrived on site (CY) on March 15, 1988. The air handler will undergo certain performance tests, as well as acoustical and vibration tests, after installation. Work began on the first and second floors on March 21, 1988.

1.5 Installation of Ductbanks

Technical support is being provided to construction and installation is progressing.

1.6 Stair Tower and Walkways

The second walkway has been deleted. This change was incorporated and Revision 0 of the PDCR has been issued.

1.7 Raceway in New Switchgear Building

Electrical drawings were revised to include the raceway for annunciator circuits and card readers. In addition, the location of the semivital transformers was included in the drawings.

1.8 Raceway to Appendix R Loads

Raceway drawings were issued in late January for review. Final comments are now being incorporated.

The major thrust of the revisions will be to redesign the raceway to the Control room from the new Switchgear Building and the raceway within the Control Room. The new design will provide additional trays and wireways to accommodate cables for the RPS job as well as for future modifications.

A hazards checklist was developed and an ensuing walkdown was performed inside the plant to document potential hazards to the existing raceway routing. Checklists have been developed and are under review. This activity will continue throughout the preparation of the Safety Evaluations.

As a result of the walkdown, there are several areas of the existing plant wherein the seismic integrity of block walls is being evaluated for its potential failure impact on new conduit routing.

1.9 Appendix R Equipment

The semivital AC system was issued for bid. Vendor drawing review for the major equipment for Appendix R continued.

1.10 Existing Switchgear Room DC System Relocation

Work was performed on additional items, such as modification of lighting, removal of existing A battery cage and roof, and modification of HVAC and hydrogen detectors. Also, reviews are being conducted on the DC tie-breaker locations to ensure seismic capability and to reduce the engineering and construction costs related to the mounting of the breakers.

1.11 Metering Pump Speed Controller and AOV-278 Modifications

The AOV-278 operator is no longer being replaced. Operational logics for the valve is being evaluated prior to proceeding with design.

A bid evaluation was performed for the metering pump actuator. A purchase award is expected shortly.

1.12 Cable Installation

Engineering has been started and the PDCR is expected to be issued shortly.

1.13 New Equipment - Old Switchgear Room

The PDCR was issued Rev. 0 for PORC approval.

1.14 MOVs for ECCS Small Break LOCA

The scope of the PDCR was reduced to include only electrical powering and control of the valves. The PDCR will be issued shortly. All system operational aspects will be covered separately by PDCR No. 931.

1.15 Instrumentation for Appendix R

The instrument isolation panel specification was issued for comments.

Methods to streamline the purchase of this panel and to accelerate receipt of required vendor information are being developed.

1.16 Cable Terminations

The bid evaluation for the miscellaneous equipment was started.

Connection drawings for the MCC were issued. Main control board connections are expected to be issued shortly.

1.17 New Switchgear Building Fire Protection System

The PDCR was issued Rev. 0 on February 29, 1988. PORC review and approval is scheduled for March 29, 1988. This PDCR addresses the installation of the standpipe, sprinkler and halon systems for the entire structure.

2.0 Procurement

2.1 General

Procurement activities have generally shifted toward administration, expediting, and source surveillance. Schedules are being maintained by Procurement and suppliers to support the construction effort.

2.2 Evaluations in Process

Miscellaneous Electrical Instruments

2.3 Bids Issued

Semi-Vital Power Supply

2.4 Shipments

Cable Tray
Rebar (ongoing)
Steel (ongoing)

3.0 Construction

3.1 General

The current update and analysis of the construction schedule indicates an April 1, 1988 concrete placement for the roof slab at Elevation 58'-6".

Additionally, an analysis of the raceway, ductbank, and cable interface schemes has been made and factored into the construction schedule. This analysis indicates the opportunity to begin cable pulling earlier than originally scheduled and in parallel with other related activities.

3.2 The four interior columns were placed to Elevation 56'-6" on February 8, 1988, and the south walls to Elevation 56'-6" were placed on February 24, 1988. Structural steel work for the Elevation 58'-6" slab has begun.

3.3 Ductbanks

The Phase I segment of the ductbank was placed on February 24, 1988. Work began on the ductbank in the Service Building corridor on February 1, 1988. Reassignment of the craft to support the RHR pit work and unexpected difficulties in removing concrete have extended the completion of this phase. An analysis of options is being performed, and will be incorporated into the the project plans.

3.4 Raceway in the Existing Plant

The installation of conduit, hangers, and the penetration out of the RHR pump pit was completed this reporting period.