CONNECTICUT YANKEE ATOMIC POWER COMPANY



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February 1, 1988

Docket No. 50-213 B12804 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. 8 <u>New Switchgear Building Construction</u>

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 eighth of these reports. Bimonthly Progress Report No. 8 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 YANKEL ATOMIC POWER COMPANY

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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

 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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Docket No. 50-213 B12804

Attachment 1

Haddam Neck Plant Bimonthly Progress Report No. 8 <u>New Switchgear Building Construction</u>

February, 1988

Haddam Neck Plant Bimonthly Progress Report No. 8 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 eighth reporting period.

PROJECT . MARY

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.

Concrete pours completed this reporting period included:

- Placement of cable chase walls to elevation 25'-6"
- Placement of the concrete for the slab at elevation 27'-6"
- Placement of concrete on the South portion of the walls to elevation 39'-6"
- o Placement of concrete on the north portion of the walls to elevation 39'-6"

Excavation was completed in support of the Phase I portion of the ductbanks extending from the New Switchgear Building to Manhole No. 1 and work is ongoing on the installation of rebar and conduit for the ductbank. Work on the ductbank through the Service Building corridor is scheduled to commence

- 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 Consruction."

January 28, 1988. Also, engineering activities have accelerated in order to finalize the remaining design packages.

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. Embedded plates and sleeves on walls were added to support the stairtower due to the revised design.

1.2 New 4160 V Bus 9 Circuit Breaker Cubicle

A meeting was held to finalize the document turnover and as-built drawing requirements. Issue of final as-built drawings for this PDCR is expected next month.

1.3 Replacement of Station Service Transformers

A meeting was held to finalize the document turnover and as-built drawing requirements. Issue of final as-built drawings for this PDCR is expected next month.

1.4 HVAC and Auxiliaries

PDCR No. 868 for the new Switchgear Building HVAC and Auxiliaries, Rev. O received PORC approval on January 19, 1988. Review of vendor documents continued for HVAC components. Specification 18691-M-622 was revised to incorporate Ellis & Watts initiated Supplier Deviation Disposition Requests. Material Requisition 18691-M-638, Electric Unit Heaters, was issued for field purchase. The elementary and connection drawings for the HVAC were issued for construction.

1.5 Installation of Ductbanks

Comments have been incorporated and pages to the PDCR were revised.

1.6 Stair Tower and Walkways

New designs for the stair tower and walkway were started based on the concept to support the stairtower structure on the new Switchgear Building. The tower will also be checked for tornado and seismic loading to prevent failure which would impact the plant shutdown systems.

1.7 Raceway in New Switchgear Building

PDCR No. 900, Revision O, was issued for PORC approval. Raceway drawings were issued for construction. Raceway support locations will be added to the electrical drawings early next month.

1.8 Raceway to Appendix R Loads

A meeting was held to finalize raceway routings in the existing plant. Raceway drawings were issued for construction for the following areas: Primary Auxiliary Building, Waste Treatment Building, and existing Switchgear Room.

Raceway routing in the Primary Auxiliary Building, Cable Spreading Area, and existing Switchgear Room were walked down. The raceway supports in these areas have been started. Routing in other areas are being finalized.

The raceways into the Diesel Generator Building are being redesigned. The ductbank will route under the building foundation, replacing the previous route over the building roof. The existing Diesel Generator Building structure will be checked for potential problems due to tunneling under the building foundation and penetrating the existing floor slab.

This underground raceway, along with revised diesel generator raceway and revised raceway to the Control Room, will be issued next month.

1.9 Appendix R Equipment

Vendor drawing review continued for the Appendix R equipment. The semi-vital ac supply material requisition was issued for comment. PDCR preparation continued in anticipation of a mid-January issue. Specifications for the Remote Instrument Panel and the Transfer Switch Panel were revised to reflect the current Appendix R instrument design.

1.10 Existing Switchgear Room DC System Relocation

PDCR No. 903, Revision A, was started and is expected to be issued for comment next month.

1.11 Metering Pump Speed Controller and AOV-278 Modifications

The metering pump speed actuator bid was received. A Work Authorization was developed for modifying the operator of AOV-278, in lieu of replacing the AOV with a MOV as defined in the original scope.

1.12 Cable Installation

The instrument cable specification was issued for purchase.

1.13 New Equipment - Old Switchgear Room

MCC 13-4 was relocated to the area presently occupied by Battery 1A. Raceway drawings were issued for construction.

1.14 MOVs for ECCS Small Break LOCA

Questions remain regarding the functional descriptions in the PDCR that mechanically installed the ECCS small break LOCA valves. The PDCR will be issued after resolution of these questions.

1.15 Instrumentation for Appendix R

A cost comparison of wrapping circuits in the cable vault versus using mineral-insulated cable in the vault is being evaluated. A revised scope and schedule based on the selected option will be developed for the remaining Appendix R work. Bid evaluation for the transmitters was performed.

1.16 Cable Terminations

The material requisition for the miscellaneous electrical equipment was issued for bid. Connection drawings for the Appendix R equipment were started. Annunciator layouts and control board layouts were issued for comments.

1.17 Fire Protection Systems

Support drawings for the halon pipe sprinkler system in the cable chases and standpipes were revised and issued for construction.

P&ID 83117-26056, Sheet 1 for the sprinkler system was issued for comments.

Review of the halon system vendor drawings continued. Sprinkler system(s) design drawings have been issued for review.

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 Completed

The following evaluation was completed this month:

- o Electronic Field Instruments
- 2.3 Evaluation in Process

The following evaluation is in process:

- o Actuator
- 2.4 Bid Requests Issued

The following bid request was issued this month

o Miscellaneous Electrical Instruments

3.0 Construction

3.1 General

Construction activities continued to maintain schedule throughout this reporting period. Staffing has remained at planned levels, and material deliveries have supported schedule need dates.

3.2 New Switchgear Building

Major activities completed were the south and north wall sections to Elevation 39'-6". Construction has begun on the structural steelwork required to support the slab at Elevation 41'-6".

3.3 Ductbanks

Excavation was completed for the first phase of the ductbanks from the new Switchgear Building to Manhole No. 1, as was the bottom rebar mat. Work began on bending and installing the the 4-inch conduit sections.