

March 1, 1993

Docket No. 50-029

LICENSEE: YANKEE ATOMIC ELECTRIC COMPANY

FACILITY: YANKEE NUCLEAR POWER STATION

SUBJECT: MEETING SUMMARY

On Wednesday, February 10, 1993, at the NRC headquarters in Rockville, Maryland, the staff met with Yankee Atomic personnel. The licensee requested the meeting in order to update the staff on the status of planning for the decommissioning of the plant and the status of the preparation of the decommissioning plan. Yankee hopes to submit the plan by October 1993; thus beating the February 1994 due date. The licensee used the enclosed set of slides (Enclosure 1) in their presentation.

The Yankee Atomic Electric Company board of directors will meet in late February and make a decision on whether to remove the four steam generators, RV internals and pressurizer in the near future or wait until 2000.

The licensee discussed their plans to retain and if necessary replace key personnel who may leave Yankee employment, thereby maintaining Technical Specification staffing requirements.

An attendance list is enclosed (Enclosure 2).

- original signed by -

Morton B. Fairtile, Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Operating Reactor Support
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Slides
- 2. Attendance list

cc w/enclosures:
See next page

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3/1/93	3/1/93	3/1/93	3/1/93

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

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See next page

Ms. Jane M. Grant

Yankee Rowe
Docket No. 50-29

cc:

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Mr. Jay K. Thayer
Vice President and Manager
of Operations
Yankee Atomic Electric Company
580 Main Street
Bolton, Massachusetts 01740-1398

YANKEE ROWE STATUS UPDATE MEETING

FEBRUARY 10, 1993

LIST OF ATTENDEES

<u>NAME</u>	<u>ORGANIZATION</u>
Mort Fairtile	NRC/NRR/ONDD
Jane Grant	Yankee Atomic Electric Co.
Bruce Holmgren	Yankee Atomic Electric Co.
Tim Henderson	Yankee Atomic Electric Co.
Kenneth Heider	Yankee Atomic Electric Co.
Larry Bell	NRC/NMSS
Jack Parrott	NRC/NMSS
Bob Wood	NRC/NRR
Dick Dudley	NRC/NRR
Brian Grimes	NRC/NRR/DORS

YANKEE ROWE STATUS MEETING

FEBRUARY 10, 1993

AGENDA

- PLANT STATUS T. K. HENDERSON
- DECOMMISSIONING PLANNING K. J. HEIDER
- COMPONENT REMOVAL PROJECT B. W. HOLMGREN
- LICENSING ACTIVITIES J. M. GRANT

PLANT STATUS

- **DEFUELED EMERGENCY PLAN**
 - OCTOBER 30, 1992: NRC APPROVED PLAN
 - DECEMBER 18, 1992: IMPLEMENTATION COMPLETED
 - WEEK OF APRIL 6, 1993: ON-SITE EMERGENCY EXERCISE

- **DEFUELED SECURITY PLAN**
 - NOVEMBER 24, 1992: NRC APPROVED PLAN
 - DECEMBER 19, 1992: IMPLEMENTATION COMPLETED
 - PROTECTED AREA
 - FORMER PROTECTED AREA

- **CONTROL ROD CUTTING PROJECT**
 - 4 CASKS LOADED
 - 3 CASKS SHIPPED TO BARNWELL BY JANUARY 13, 1993
 - 1 CASK SCHEDULED FOR GE

PLANT STATUS (CONTINUED)

- **STAFFING**

- JANUARY 1, 1993: ON-SITE STAFF CONSISTS OF 59 PERSONNEL
- NO FURTHER CHANGES PLANNED AT PRESENT
- PLANT ORGANIZATION BACKED UP BY YANKEE'S ENGINEERING DIVISION
- TOTAL: 118 STAFF-YEARS (NOT INCLUDING SECURITY)

- **EQUIPMENT LAY-UP**

- PLANT SYSTEMS CATEGORIZED INTO 3 GROUPS:
 - + THOSE NEEDED FOR DECOMMISSIONING
 - + THOSE NEEDED FOR REPOWERING
 - + THOSE NEEDED ONLY TO BE DRAINED AND SEALED
- WORK IN PROGRESS TO PLACE SYSTEMS INTO PROPER LAY-UP CONDITION

PLANT STATUS (CONTINUED)

- ENERGY CONSERVATION
 - ALL SYSTEMS IN CONTAINMENT DRAINED EXCEPT REACTOR VESSEL
 - HEAT TERMINATED IN CONTAINMENT
 - ALL ELECTRICAL LOADS ON SITE MONITORED AND ENERGY REDUCTIONS MONITORED CONSISTENT WITH PROPERLY MAINTAINED THE SITE

- NRC INSPECTION (1/25 - 1/28)
 - "SMALL GROUP INSPECTION"
 - BARRY NORRIS, MORT FAIRTILE, NEIL PERRY
 - FOLLOW UP TO ALL OF THE CHANGES ASSOCIATED WITH POL
 - RESULTS WERE GOOD: NO VIOLATIONS, 4 PROPOSED FOLLOW ITEMS

DECOMMISSIONING PLAN SUBMITTAL PLANNED FOR 10/93

DRAFT
STATUS

✓

● SUMMARY

● CHOICE OF ALTERNATIVE AND DESCRIPTION OF ACTIVITIES

- DECOMMISSIONING ALTERNATIVE
- FACILITY DESCRIPTION
- ACTIVITIES AND PLANNING
- ORGANIZATIONAL STRUCTURE

✓

✓

✓

● OCCUPATIONAL AND PUBLIC HEALTH AND SAFETY

- FACILITY RADIOLOGICAL STATUS
- RADIATION PROTECTION PROGRAM
- RADIOACTIVE WASTE MANAGEMENT
- ACCIDENT ANALYSIS

✓

✓

● MISCELLANEOUS PLAN DESCRIPTIONS

- FINAL RADIATION SURVEY PLAN
- COST ESTIMATE AND FUNDING PLAN
- PERMANENTLY DEFUELED TECHNICAL SPECIFICATIONS
- QUALITY ASSURANCE PLAN
- ACCESS CONTROL PLAN

✓

✓

✓

✓

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RADIOLOGICAL CHARACTERIZATION ACTIVITIES

- **RADIOLOGICAL CHARACTERIZATION STRATEGY**
 - SCOPING SURVEYS SUPPORT PLAN PREPARATION
 - SITE CHARACTERIZATION SURVEYS SUPPORT DETAILED WORK PLANNING

- **SCOPING SURVEYS UNDERWAY**
 - OBJECTIVE: SUFFICIENT DATA TO ESTIMATE RAD-WASTE VOLUME & CURIES
 - SURVEYS INSIDE STRUCTURES UNDERWAY
 - + CONTACT AND AREA DOSES FOR PIPING, COMPONENTS, & STRUCTURES
 - + LIMITED ISOTOPIC ANALYSES OF PIPE SAMPLES
 - + PAINT AND CONCRETE SAMPLES FROM STRUCTURAL SURFACES
 - SURVEYS OUTSIDE AFTER 4/1/93
 - + CORE BORINGS AND OBSERVATION WELLS
 - + SURFACE SAMPLES OF TARMAC AND SOIL
 - + SURFACE SCANNING

- **SITE CHARACTERIZATION INITIATED AFTER SCOPING COMPLETED**

DECOMMISSIONING ACTIVITIES DESCRIPTION

- **YANKEE'S DECOMMISSIONING ALTERNATIVE SELECTION: SAFSTOR**
 - ACCESS TO WASTE DISPOSAL UNLIKELY AT TIME OF PLAN APPROVAL (1995)
 - FINAL DISMANTLING ACTIVITIES SCHEDULED FOR 2000
 - WILL CONSIDER EARLIER DISMANTLEMENT IF DISPOSAL FACILITY BECOMES AVAILABLE

- **SAFSTOR PERIOD ACTIVITIES**
 - LAY-UP SYSTEMS THAT SUPPORT FUTURE ACTIVITIES
 - MONITOR RADIOLOGICAL STATUS OF FACILITY
 - OPERATE SPENT FUEL POOL
 - LIMITED COMPONENT REMOVAL ACTIVITIES

- **DISMANTLEMENT PERIOD ACTIVITIES**
 - DEVELOP DETAILED PLANS, REMOVAL SPECIFICATIONS, AND PROCEDURES
 - DECONTAMINATE AND DISMANTLE FACILITY
 - PERFORM FINAL AND CONFIRMATORY SURVEYS

MISCELLANEOUS ACTIVITIES

- **ACCIDENT ANALYSIS UNDERWAY**
 - BASIS: NUREG/CR-0130 PUBLIC AND OCCUPATIONAL SAFETY EVALUATIONS
 - INCORPORATES YANKEE SPECIFIC EVENTS
 - REFLECTS YANKEE'S RADIOLOGICAL CONDITIONS

- **ENVIRONMENTAL SUPPLEMENT**
 - WRITTEN IN ACCORDANCE WITH 10 CFR 51.53
 - BASIS:
 - + CONSTRUCTION PERIOD RECAPTURE ENVIRONMENTAL REPORT
 - + GENERIC ENVIRONMENTAL IMPACT STATEMENT ON DECOMMISSIONING
 - WILL BE SUBMITTED WITH DECOMMISSIONING PLAN

- **DECOMMISSIONING PLAN SUBMITTAL SCHEDULED FOR 10/93**

LICENSING ACTIVITIES

- **OUTSTANDING:**
 - PROPERTY INSURANCE EXEMPTION
 - INDEMNITY AGREEMENT AMENDMENT
 - WATER CHEMISTRY TS AMENDMENT
 - DEFUELED TECHNICAL SPECIFICATIONS

- **OTHER:**
 - UPDATED FSAR
 - PUBLIC INFORMATION PROGRAM
 - NRC/YAEC MEETING AT ROWE
 - NEXT STATUS MEETING

PROJECT SCOPE AND STATUS

MAJOR ENGINEERING ACTIVITIES:

- REACTOR INTERNALS REMOVAL
- STEAM GENERATORS REMOVAL
- PRESSURIZER REMOVAL

OTHER ENGINEERING WORK:

- SHIELD TANK CAVITY MODIFICATIONS
- RESTORATION AND REFURBISHMENT OF POLAR CRANE
- AUXILIARY CRANES INSIDE CONTAINMENT
- REFURBISHMENT OF YARD AREA CRANE
- REACTOR HEAD STORAGE
- SUPPORT SERVICES INSIDE CONTAINMENT
- TEMPORARY CONTRACTOR FACILITIES
- STEAM GENERATOR (CASK) PREPARATION ENCLOSURE

CURRENT PROJECT SCHEDULE

SG/PZR REMOVAL WORK

- 1ST QUARTER 1993

- TRANSPORTATION STUDY
- SELECT REMOVAL CONTRACTORS

- 2ND QUARTER 1993

- ASBESTOS ABATEMENT
- DEVELOP/SUBMIT APPLICATION AND SAR TO NRC
- ISSUE CERTIFICATE OF COMPLIANCE
- MOBILIZE ON SITE

- 3RD QUARTER 1993

- BEGIN REMOVAL OPERATIONS

- 1ST QUARTER 1994

- COMPLETE SG/PZR SHIPMENTS

REACTOR INTERNALS WORK

- 1ST QUARTER 1993

- DOSE PROFILING OF MATERIALS
- SELECT SEGMENTING CONTRACTORS
- DEVELOP SEGMENTATION/PACKAGING PLAN
- BEGIN TOOLING DESIGN/FABRICATION

- 3RD QUARTER 1993

- BEGIN CASK SHIPMENTS

- 1ST QUARTER 1994

- COMPLETE CASK SHIPMENTS

TRANSPORTATION STUDY STATUS

TRANSPORT METHODS

- ROADWAY HAULING
- RAIL TRANSPORT
- BARGE TRANSPORT

PERMITTING REQUIREMENTS

- ROAD PERMITS
- RAIL PERMITS
- WATERWAY PERMITS

CHARACTERIZATION AND CLASSIFICATION OF COMPONENTS

CHARACTERIZATION

- STEAM GENERATORS/PRESSURIZER/INTERNALS

- HISTORICAL DATA
- CURRENT DATA
- VERIFICATION OF ESTIMATES

CLASSIFICATION

- STEAM GENERATORS/PRESSURIZER

- 10CFR71 SAFETY ANALYSIS REPORT
- OBTAIN TYPE A CERTIFICATE OF COMPLIANCE
- CONTENTS GREATER THAN TYPE A QUANTITIES BUT:
LOW SPECIFIC ACTIVITY
SHIPPED AS EXCLUSIVE USE

- REACTOR INTERNALS

- SEGMENTS CLASSIFIED PER 10CFR61 AS LLW:
CLASS A
CLASS B
CLASS C
GREATER THAN CLASS C (GTCC)

- SEGMENTS TRANSPORTED VIA LICENSED CONTAINERS

PRELIMINARY DOSE ESTIMATES

- REMOVE AND SHIP STEAM GENERATORS
 - 50 REM PER GENERATOR (LESS THAN MILLSTONE II)
 - INCLUDES ASBESTOS REMOVAL AND PREP WORK

- REMOVE AND SHIP PRESSURIZER
 - 35 REM
 - INCLUDES ASBESTOS REMOVAL AND PREP WORK

- SEGMENT AND SHIP THERMAL SHIELD AND INTERNALS
 - 24 REM

- CURRENTLY RE-ESTIMATING:
 - EFFECTIVE TASK DURATIONS
 - EFFECTIVE EXPOSURE RATES

- ALARA REVIEWS WILL REDUCE THESE DOSE ESTIMATES

- TOTAL ESTIMATED DOSE LESS THAN NORMAL REFUELING OUTAGE OVER LONGER PERIOD OF TIME

ASBESTOS ABATEMENT

- ASBESTOS ABATEMENT CONTRACTOR SCOPE:
 - REMOVE ASBESTOS INSULATION FROM 4 STEAM GENERATORS AND PRESSURIZER.
 - EACH VESSEL IS COVERED WITH 4 INCHES OF CALCIUM SILICATE INSULATION
- EVALUATE COST/FEASIBILITY OF REMOVING ASBESTOS INSULATION FROM OTHER EQUIPMENT
- ASBESTOS MONITORING CONTRACTOR SCOPE:
 - MONITORS ABATEMENT CONTRACTOR, REVIEWS, TESTS
- REQUEST FOR PROPOSAL ISSUED TO BOTH ASBESTOS ABATEMENT AND ASBESTOS MONITORING BIDDERS ON FEB. 1
 - CONTRACT AWARD SCHEDULED FOR MARCH 1
- ASBESTOS ABATEMENT WILL BE PERFORMED IN ACCORDANCE WITH YAEC PLANT PROCEDURE AP-0709 REVISION 2, "ASBESTOS CONTROL PROGRAM"
- ASBESTOS REMOVAL SCHEDULED TO BEGIN IN EARLY APRIL.