

February 14, 1992

Docket No. 50-146

LICENSEE: Saxton Nuclear Experimental Corporation (SNEC)

FACILITY: Saxton Nuclear Facility

SUBJECT: SUMMARY OF MEETING BETWEEN SNEC AND THE NRC STAFF

On February 3, 1992, representatives of the NRC staff were briefed on the status of the Saxton Nuclear Facility by representatives of SNEC. A list of attendees is provided in Enclosure 1. Briefing material provided by the licensee is provided in Enclosure 2.

The staff is considering issuance of an amendment to the license to remove the outbuildings from the license and to make administrative changes. The licensee outlined the cleanup activities completed to date on the facility outbuildings. The plans for demolition of the outbuildings following receipt of an amendment from NRC were discussed. The licensee inquired as to what would be the next steps in the amendment process. The staff stated that a request for additional information will be sent to address issues surrounding release criteria and other remaining open issues. The staff also stated that the Sholly FEDERAL REGISTER notice would be issued in the near future.

The NRC staff also indicated that a soil pathways analysis review would not be performed by the staff at this time because the amendment under consideration removes only the outbuildings from the license and does not release any portion of the site itself. Soil pathways analysis review would occur at the time of containment vessel (CV) decommissioning and termination of the facility license.

The licensee outlined plans for the decommissioning of the CV and presented preliminary characterization results. The licensee indicated that they would like to complete decommissioning by the year 2000, when the license expires.

Original signed by:
Alexander Adams, Jr., Project Manager
Non-Power Reactors, Decommissioning and
Environmental Project Directorate
Division of Advanced Reactors
and Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

As stated
cc w/enclosures:
See next page

DISTRIBUTION

Docket File (50-146)	J. Partlow	A. Adams	NRC Participants
NRC & Local PDRs	D. Crutchfield	E. Hylton	ACRS (10)
PDNP R/F	W. Travers	OGC	R. Label
T. Murley/F. Miraglia	S. Weiss	E. Jordan	C. Hehl

OFC : PDNP:LA	: PDNP:PM	: PDNP:D	:
NAME : E.Hylton	: A.Adams	: S.Weiss	:
DATE : 02/11/92	: 02/14/92	: 02/14/92	:

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Saxton Nuclear
Experimental Corporation

Docket No. 50-146

cc:

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The Honorable Robert C. Jubelirer
President Pro-Team Senate of
Pennsylvania
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Harrisburg, Pennsylvania 17120

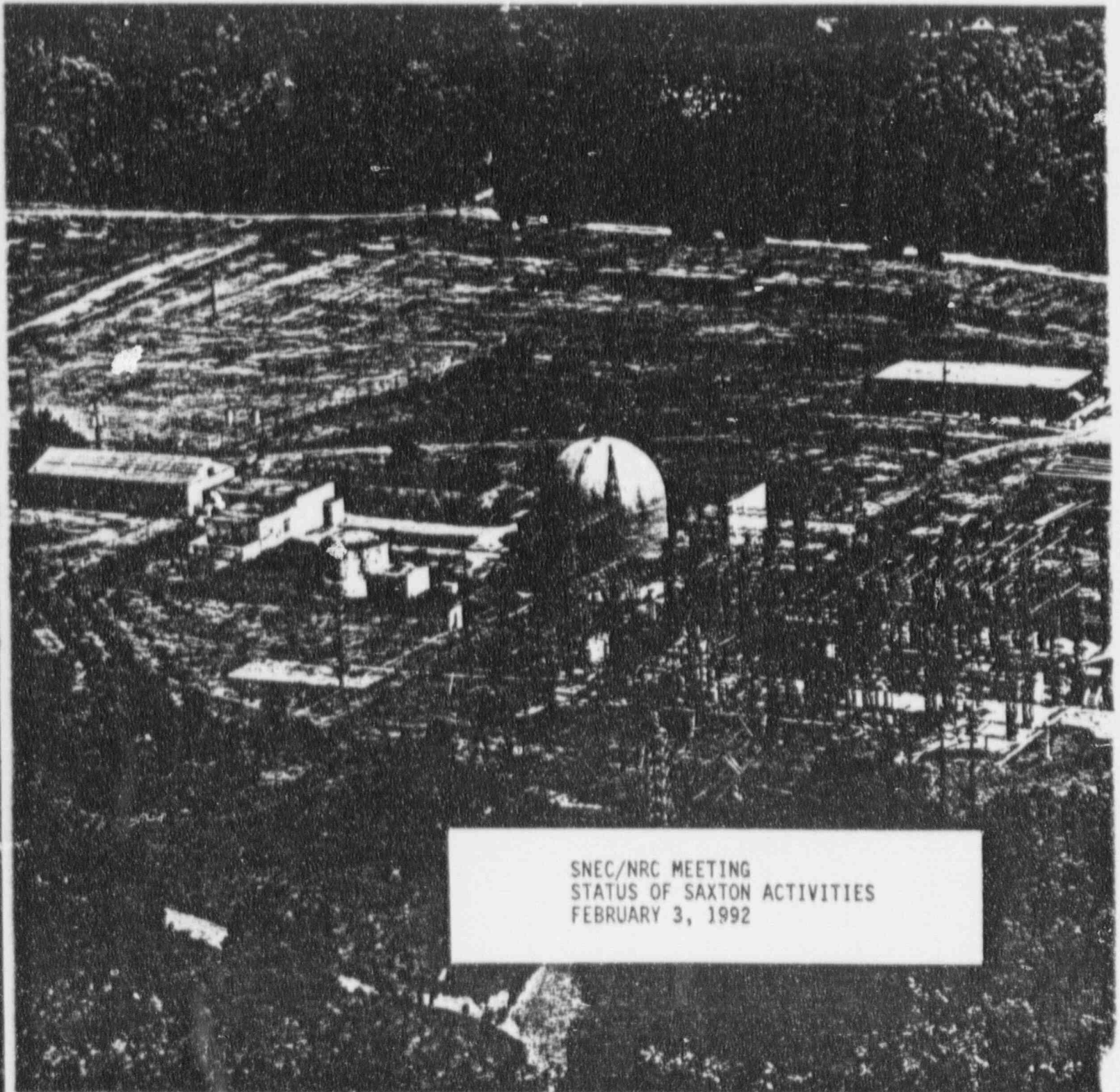
Mr. E. J. Pagan
Licensing Engineer
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One Upper Pond Road
Parsippany, New Jersey 07054

Saxton Licensing Meeting

February 3, 1992

<u>NAME</u>	<u>TITLE</u>	<u>ORGANIZATION</u>	<u>PHONE</u>
Jerome Roth	Project Engineer	NRC-RI	215-337-5205
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Al Adams	Project Manager	NRC	301-504-1127

Saxton Nuclear Power Plant



SNEC/NRC MEETING
STATUS OF SAXTON ACTIVITIES
FEBRUARY 3, 1992

Saxton Nuclear Power Plant



SNEC/NRC MEETING
STATUS OF SAXTON ACTIVITIES
FEBRUARY 3, 1992

SNEC/NRC MEETING
FEBRUARY 3, 1992
1:00 - 3:00 PM
ROCKVILLE, MD

- | | |
|---|----------------------------|
| I. Introduction | A. Adams/
J. Hildebrand |
| II. Meeting Objectives | J. Hildebrand |
| III. Status of SNEC Decommissioning
Activities | B. Good |
| IV. Controls During Building Demolition | B. Good |
| V. Containment Vessel Decommissioning | R. Holmes |
| VI. Summary/Conclusions | J. Hildebrand |

MEETING OBJECTIVES

Status of SNEC Decommissioning Activities

Controls During Demolition of Outbuildings

Future Plans for Containment Vessel
Decommissioning

STATUS OF SNEC DECOMMISSIONING

DECONTAMINATION AND DISMANTLEMENT OF SNEC FACILITY
TO BE CARRIED OUT IN THREE PHASES: PHASE A, B, AND C.

PHASE A: Removal of Groundwater from RWDF, C&A, and
Yard Pipe Tunnel

PHASE B: Decontamination and Dismantling of C&A, RWDF, RWST,
FDSB, and Yard Pipe Tunnel

PHASE C: Decontamination and Dismantling of Containment Vessel

PHASES A AND B INITIATED DUE TO:

- Deterioration of Buildings
- Safety Hazard to Workers
- Control of Contamination
- Security

STATUS OF SNEC DECOMMISSIONING ACTIVITIES

(Continued)

PHASE A: REMOVAL OF GROUNDWATER FROM RWDF, C&A. AND YARD PIPE TUNNEL

- Phase A Completed December 1986 - January 1987

- 210,000 Gallons of Water Discharged to the
Raystown Branch of Juniata River

STATUS OF SNEC DECOMMISSIONING ACTIVITIES

(Continued)

PHASE B: DECONTAMINATION AND DISMANTLEMENT OF C&A, RWDF, RWST, FDSB, AND YARD PIPE TUNNEL

- Decontamination and initial surveys: Completed June 1986 - August 1988
- Final Release Survey: Completed October 1988 - June 1989
- Final Release Survey Results Submitted to NRC
 - Rev. 0 - 4/16/90
 - Rev. 1 - 9/6/90 (incorporated NRC Request for all grid survey data)
 - Rev. 2 - 1/31/91 (incorporated NRC Request for Filled Drum
Storage Bunker Soil data)
 - Addendum - 7/16/91 (NRC/ORAU Request for additional RWST
pad data)
- Confirmatory Survey Performed by NRC Contractor (ORAU) October 1990
- ORAU Confirmatory Survey Report: Completed June 1991

STATUS OF SNEC DECOMMISSIONING ACTIVITIES

(Continued)

PHASE C: DECONTAMINATION AND DISMANTLING OF CONTAINMENT VESSEL

- Preparation of Decommissioning Plan

- CV Radiological Characterization

ADDITIONAL ACTIONS IN PREPARATION FOR DEMOLITION

- Additional RWST pad survey data were provided to the NRC 7/16/91.
- Soil surveys using sodium iodide detectors were performed around the outbuildings and areas above background were excavated.
- Statistically based soil sampling was performed around the outbuildings to assess the building-soil interface so that activities can be controlled to ensure that any residual contamination in the soil is not spread.
- Soil underneath the buildings meets guidelines and was confirmed by ORAU.
- Statistically based concrete core sampling was performed of the outbuildings to calculate the average activity to be used for future Environmental Pathways Analysis for final site closure.
- A new fence was installed around the south parking lot since the C&A Building forms part of the exclusion area fence.

CONTROLS DURING BUILDING DEMOLITION

- Demolition Contract is in-place
 - Experienced local contractor
 - Record of good performance

- Controls to prevent co-mingling of soil with concrete rubble.

- Continuous Radiological Controls coverage during demolition.

- Demolition holdpoints will be imposed for surveys and the NRC will be notified to review the results before final disposition.

- Demolition debris leaving the site will be controlled.

- Appropriate Environmental Controls will be in-place.

CONTAINMENT VESSEL DECOMMISSIONING

- CV RADIOLOGICAL/INDUSTRIAL CHARACTERIZATION
- PREPARATION OF DECOMMISSIONING PLAN
- NRC REVIEW AND APPROVAL
- START CV DECOMMISSIONING - 1997
- FINAL SITE CLOSURE AND LICENSE TERMINATION
2000

CV CHARACTERIZATION

- CURRENT STATUS: PHYSICAL
 - ALL FUEL, CONTROL ROD BLADES AND RESINS WERE REMOVED AND SHIPPED.
 - ALL SYSTEMS DRAINED - SOME CONDENSATION REMAINS.
 - ALL PIPING PENETRATIONS ARE CUT AND CAPPED EXCEPT FOR A 1/2" BREATHING LINE WITH HEPA FILTER.
 - ALL REMOVABLE SHIELDING REMAINS IN PLACE AND THE POLAR CRANE IS DISABLED.

- PURPOSE: ESTABLISH THE RADIOLOGICAL AND INDUSTRIAL HAZARD STATUS OF THE CV.
 - THIS INFORMATION WILL BE USED TO FORMULATE THE CV DECOMMISSIONING PLAN AND DETAILED WORK PROCEDURES.
 - INITIAL CHARACTERIZATION SURVEYS PERFORMED IN 1991. TECHNICIANS CONDUCTED SURVEYS AND GATHERED SAMPLES FROM ALL ACCESSIBLE AREAS AND SYSTEMS

RADIOLOGICAL

- 812' ELEV. AND UP IS $< 5,000$ dpm/100cm² AVERAGE LOOSE SURFACE CONTAMINATION AND < 0.2 mr/hr GENERAL AREA.
- 795-2" ELEV. AND BELOW AVERAGE $\approx 5,000 - 40,000$ dpm/100 cm² LOOSE SURFACE CONTAMINATION AND ≈ 0.5 mr/hr - 10mr/hr GENERAL AREA.
- PEAK RADIATION LEVELS DETECTED WERE 1,000 mr/hr IN CONTACT WITH THE SOUTH STEAM GENERATOR MANWAY AND NEAR AN EMPTY DEMINERALIZER IN THE SPENT FUEL POOL.
- THE PREDOMINANT NUCLIDE IS Cs-137, HOWEVER A BROAD RANGE OF CORROSION AND FISSION PRODUCTS IS PRESENT.

INDUSTRIAL

- MOST PAINTS ARE LEAD BASED
- ALL INSULATION IS ASBESTOS BASED
- SOME MISC. LEAD BRICK SHIELDING

PREPARATION OF DECOMMISSIONING PLAN

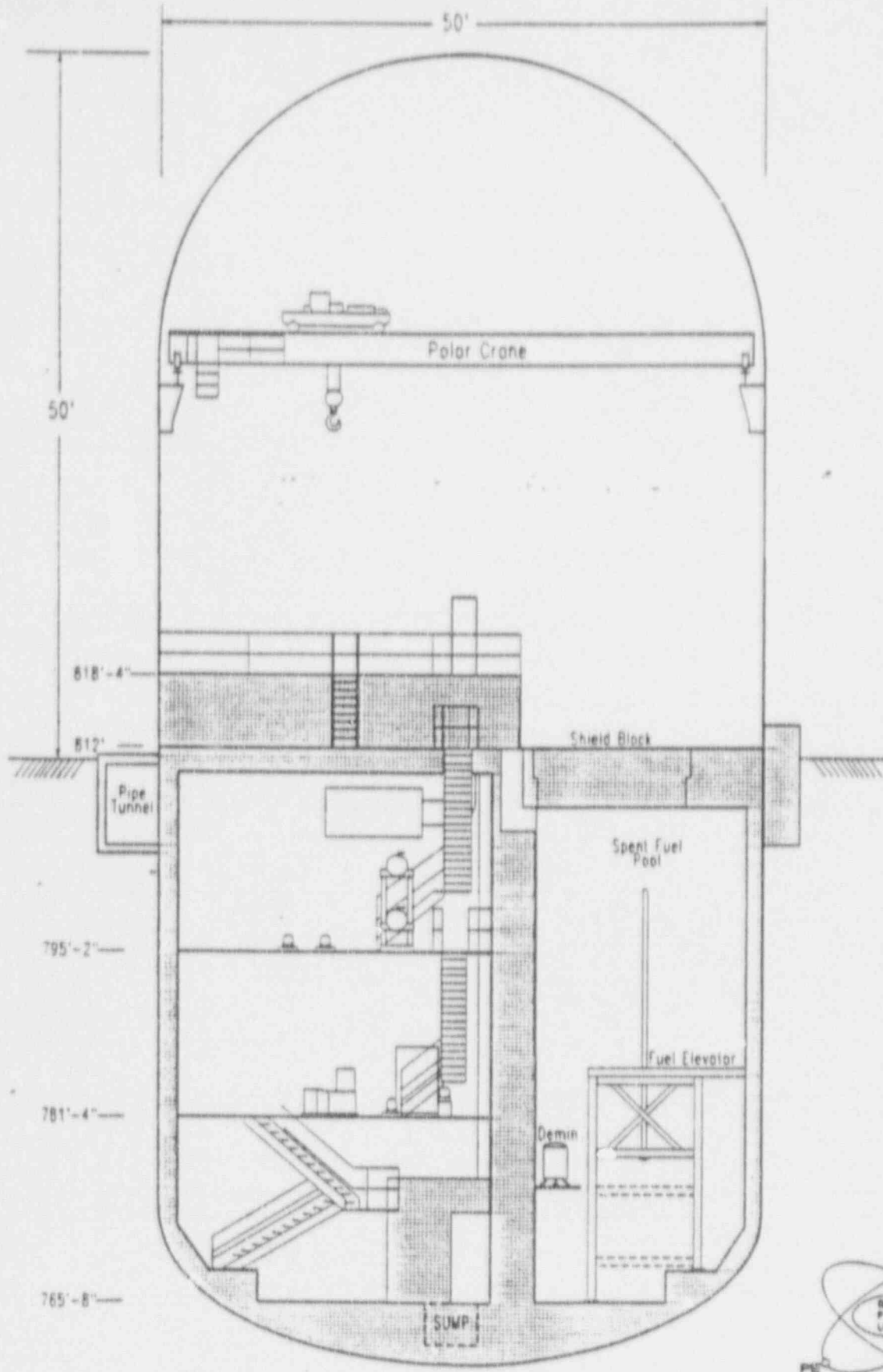
- NRC APPROVED PATHFINDER DECOMMISSIONING PLAN WILL BE USED AS GUIDANCE
- TARGET DATE FOR SUBMIT DURING 1994

NRC REVIEW AND APPROVAL

- SNEC SCHEDULE ASSUMES ONE YEAR FOR NRC REVIEW/APPROVAL OF SUBMITTAL
- OPEN DIALOGUE TO QUICKLY RESOLVE QUESTIONS

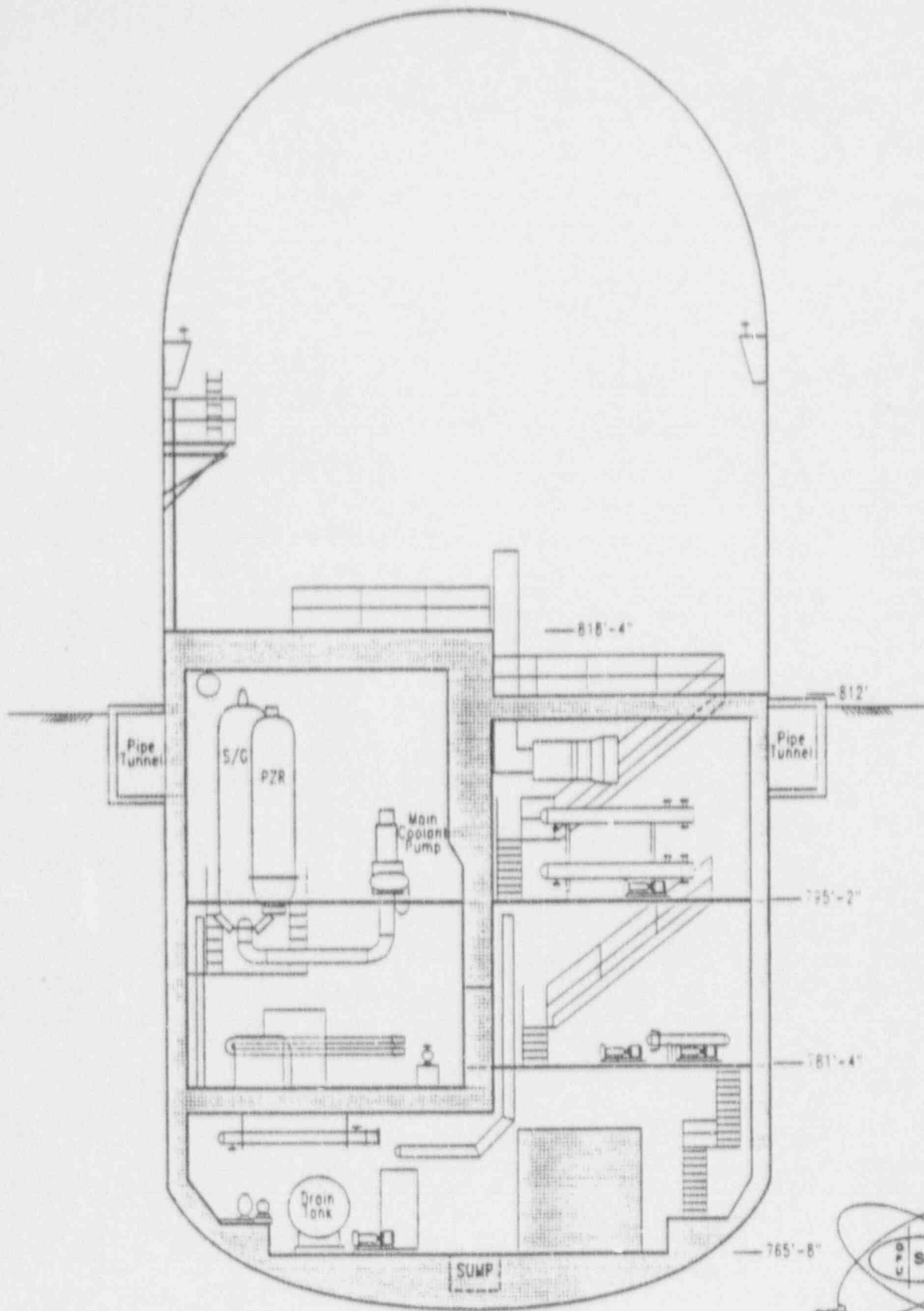
CV DECOMMISSIONING

- TARGET DATE FOR PLANNING PURPOSES - 1997
- GPUN WILL MANAGE THE PROJECT
- TARGET DATE FOR FINAL SITE CLOSURE AND LICENSE TERMINATION - 2000



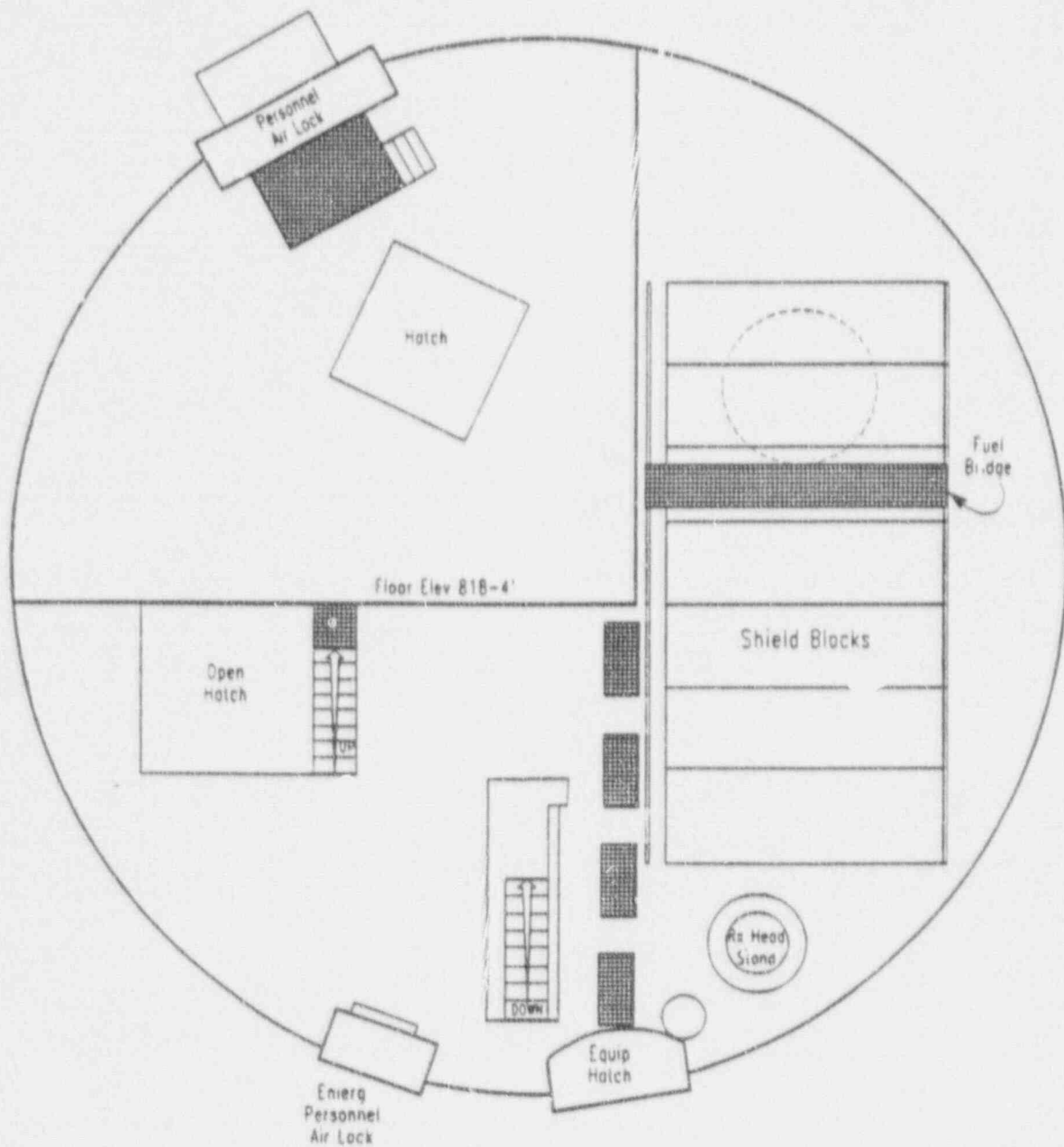
Rotary Bridge Crane, Sectional View

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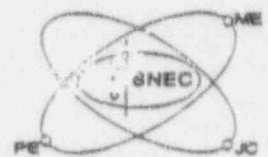


Containment Vessel, Sectional View

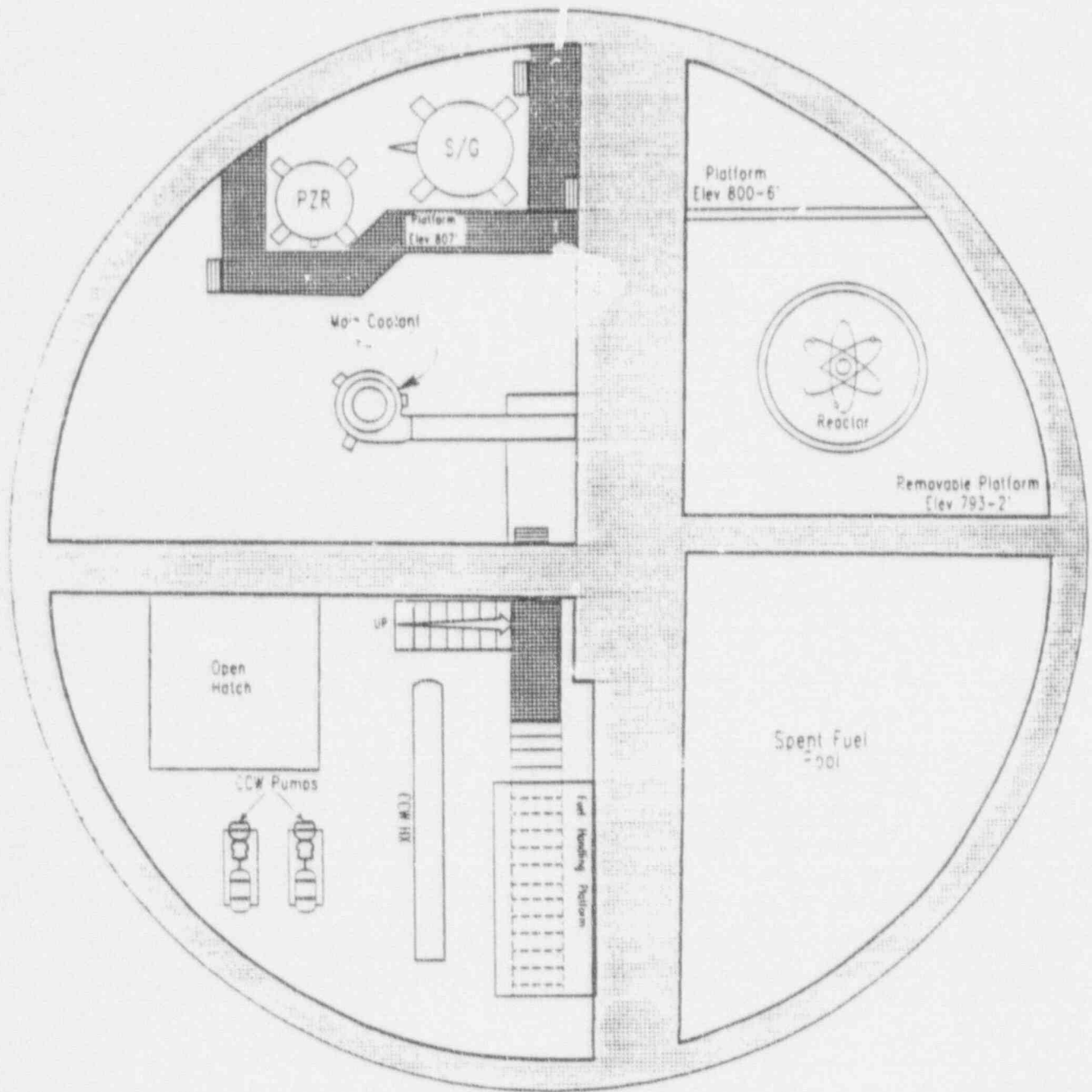
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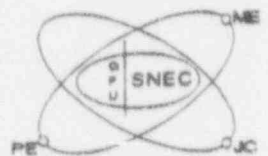
Plan Above Operating Floor Elev 812'-0"
Containment Vessel (CV)



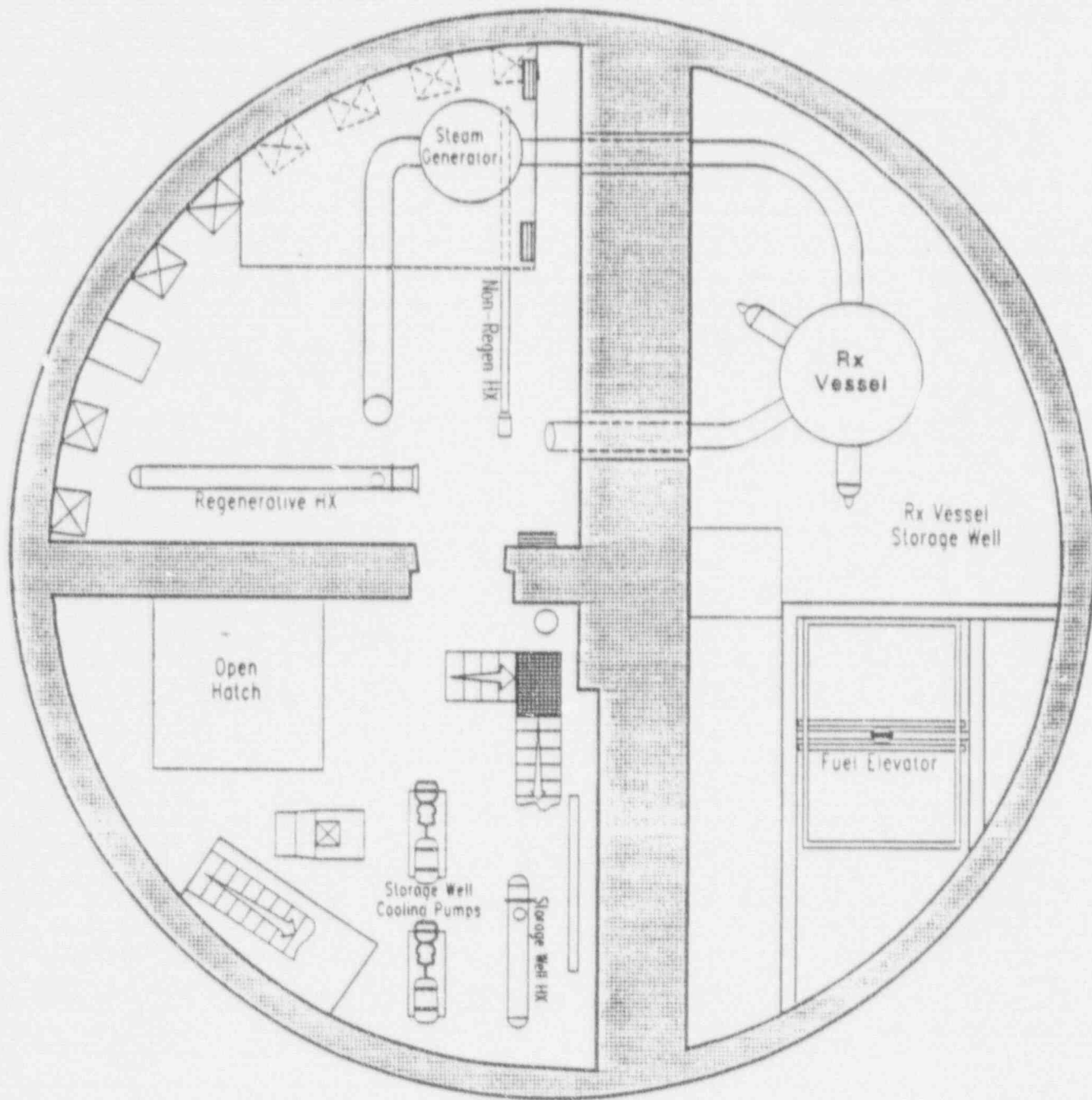
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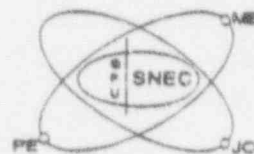
Plan Above Operating Floor Elev 795'-2"
Containment Vessel (CV)



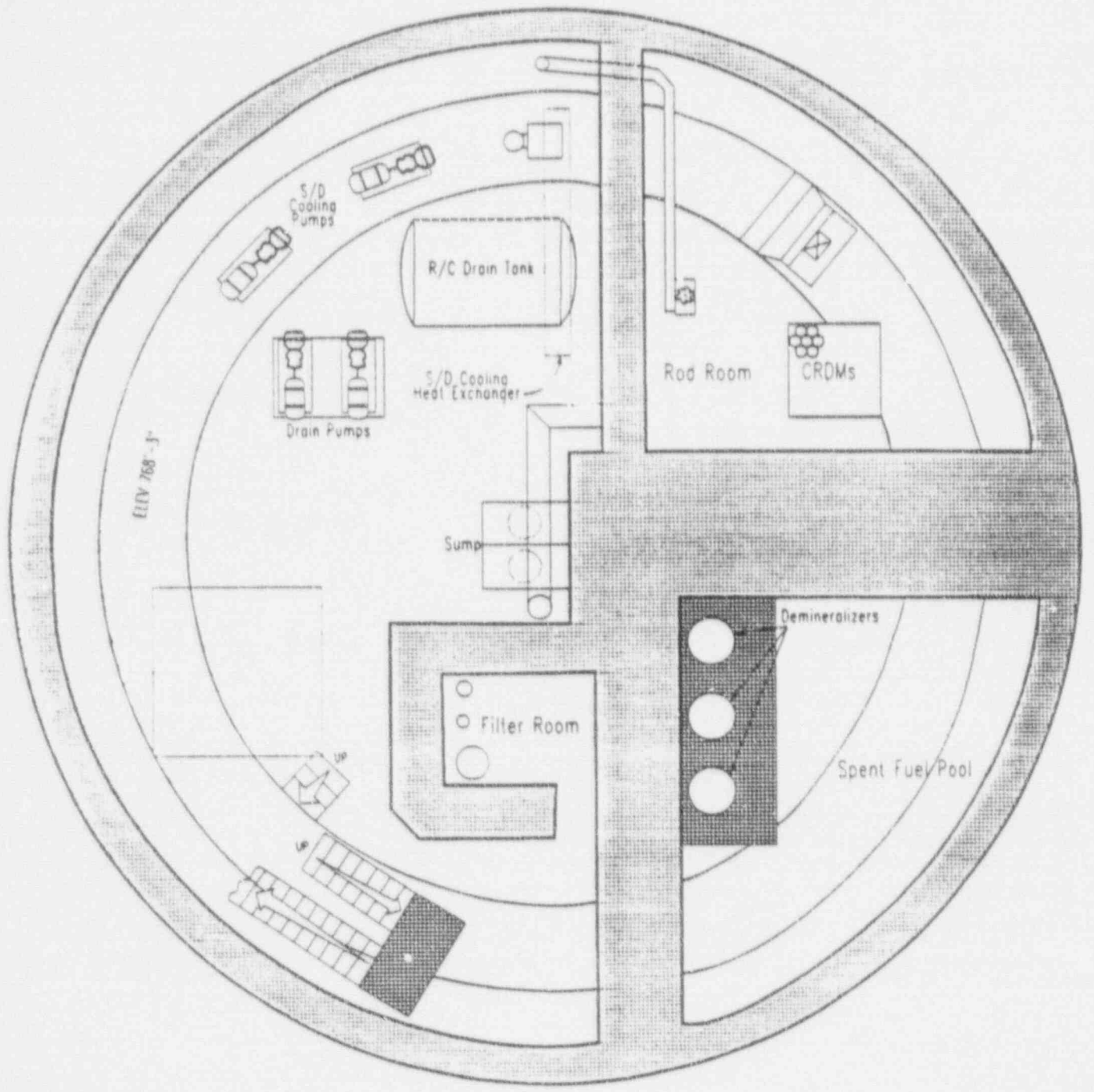
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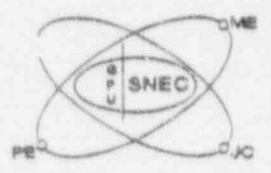
Plan Above Operating Floor Elev 781'-4"
Containment Vessel (CV)



NO SCALE



Plan Above Operating Floor Elev 765'-8"
Containment Vessel (CV)



NO SCALE

SNEC MILESTONES

- JULY 1986 COMMENCED PHASE A AND B SAXTON CLEANUP
ACTIVITIES
- JAN. 1987 WATER REMOVAL FROM PIPE TUNNEL AND
RADWASTE DISPOSAL FACILITY (RWDF)
- AUG. 1988 COMPLETED DECONTAMINATION OF RADWASTE
DISPOSAL FACILITY, CONTROL AND
AUXILIARY BUILDING, AND YARD PIPE TUNNEL
- JUNE 1989 COMPLETED FINAL RELEASE SURVEY OF BUILDINGS
- JULY 1989 DOE AERIAL OVERFLIGHT CONDUCTED
- DEC. 1989 SHIPPED RADIOACTIVE WASTE TO BURIAL FACILITY

SNEC MILESTONES

(Continued)

April 1990	FINAL RELEASE SURVEY REPORT INITIALLY SUBMITTED TO NRC (REV. 0)
Oct. 1990	PUBLIC MEETING AT SAXTON
Oct. 1990	NRC/ORAU CONFIRMATORY SURVEY
June/July 1991	PREPARATIONS FOR DEMOLITION
June 1991	ORAU SUBMITTED CONFIRMATORY SURVEY REPORT TO NRC
Sept. 1991	SHIPPED RADIOACTIVE WASTE TO WASTE REDUCTION FACILITY
Dec. 1991	CV RADIOLOGICAL/INDUSTRIAL CHARACTERIZATION

CHRONOLOGY OF SNEC/NRC COMMUNICATIONS

JULY 25, 1986	SNEC/NRC MEETING TO DISCUSS SNEC ACTIVITIES
FEB. 2, 1987	SNEC/NRC MEETING TO DISCUSS SNEC ACTIVITIES
JUNE 2, 1987	SNEC/NRC MEETING TO DISCUSS SNEC ACTIVITIES
SEPT. 22, 1987	SNEC SUBMITTED TECH. SPEC. CHANGE REQUEST NO. 53 TO REMOVE THE OUTBUILDINGS AND STRUCTURES FROM THE TECH. SPECS.
FEB. 9, 1988	NRC FORWARDED QUESTIONS ON TSCR NO. 53
FEB. 25, 1988	SNEC SUBMITTED REV. 1 TO TSCR NO. 53 SHOWING RETENTION OF THE EXISTING FENCE
APRIL 21, 1988	SNEC/NRC MEETING TO DISCUSS SNEC ACTIVITIES
APRIL 27, 1988	SNEC SUBMITTED A RESPONSE TO NRC QUESTIONS ON TSCR NO. 53
JAN. 1990	NRC SITE TOUR
FEB. 27, 1989	SNEC/NRC MEETING TO DISCUSS PLANS OF A SURVEY OF SURFICIAL MATERIALS (89-01)
FEB. 14, 1990	SNEC/NRC MEETING TO REVIEW THE STATUS OF SAXTON ACTIVITIES
APRIL 16, 1990	SNEC FINAL RELEASE SURVEY REPORT FOR OUTBUILDINGS SUBMITTED TO NRC (REV. 0)

CHRONOLOGY OF SNEC/NRC COMMUNICATIONS (Continued)

JULY 1990	NRC INSPECTION OF SNEC AND ISSUANCE OF INSPECTION REPORT (40-146/90-01)
JULY 1990	SNEC DECOMMISSIONING FUNDING REPORT SUBMITTED TO NRC
SEPT. 6, 1990	SNEC FINAL RELEASE SURVEY REPORT FOR OUTBUILDINGS SUBMITTED TO NRC (REV. 1)
OCT. 1990	NRC/ORAU CONFIRMATORY SURVEY PERFORMED
NOV. 1990	NRC ISSUES INSPECTION REPORT 50-146/90-02 RELATED TO ANNOUNCED INSPECTION CONDUCTED DURING OCTOBER 1990
JAN. 31, 1991	SNEC FINAL RELEASE SURVEY REPORT FOR OUTBUILDINGS SUBMITTED TO NRC (REV. 2)
JUNE 1991	ORAU CONFIRMATORY SURVEY REPORT SUBMITTED TO NRC
JULY 16, 1991	ADDENDUM TO SNEC FINAL RELEASE SURVEY REPORT FOR OUTBUILDINGS SUBMITTED TO NRC