

June 4, 2002

LICENSEES: Saxton Nuclear Experimental Corporation (SNEC) and GPU Nuclear, Inc. (GPU)

FACILITY: Saxton Nuclear Experimental Facility (SNEF)

SUBJECT: SUMMARY OF MEETING BETWEEN SNEC, GPU AND THE NRC STAFFS

On May 8, 2002, representatives of the NRC staff met at NRC Headquarters in Rockville, Maryland, with representatives of the SNEC and GPU, the licensees for the SNEF. Attachment one is a list of meeting attendees. The slides used by the licensees during the meeting are attachment two.

The plant was operated between 1962 and 1972, and it was shut down in May 1972. In February 1975, the plant was placed in SAFSTOR until 1986, when phased dismantlement began with the removal of the support buildings, contaminated soil, and some materials in the containment. The licensees' decommissioning plan became the Post-Shutdown Decommissioning Activities Report. The resubmitted License Termination Plan (LTP) was accepted for detailed technical review in March 2000.

Technical review of the LTP has generated requests for additional information (RAI). These issues were generally discussed with the licensees during a meeting on April 8, 2002. The May 8, 2002, meeting was a follow on to the April 8, 2002, meeting in the area of dose modeling that the licensees presented to the NRC in their response to RAI2 (RAI dated November 8, 2000, from the NRC). Discussion topics for the meeting were forwarded to the licensees in a letter from the NRC dated May 13, 2002 (ADAMS Accession No. ML021290289). The discussions with the licensees' technical staff and consultants provided clarification and a better understanding of the site specific technical data and related information.

The following points were discussed:

- SNEC will use volumetric DCGL values for embedded pipes. SNEC will analyze the effect of exposure from the embedded pipe in conjunction with contaminated building structures. It is likely that some type of building renovation scenario will be used. SNEC also agreed to update Table 5-2 to show specifically which DCGL values (i.e., surface or volumetric) will be used in each survey unit.
- NRC agreed to recheck its evaluation of SNEC Calculation Report No. E900-01-005. NRC agreed that area factors based upon use of RESRAD-Build 3.0 can be used provided that staff can verify the derivation.

Contact: Alexander Adams, Jr.

301-415-1127

- SNEC agreed to use a probabilistic approach in conducting their sensitivity analysis. DandD default parameter values for behavioral and metabolic parameters will be used as constants. Parameters with a calculated sensitivity equal to or greater than 0.25, based on the PRCC method, will be considered as sensitive parameters. The 25th or 75th percentile parameter value of the parameter distribution will be used in the deterministic analysis used to develop DCGL values depending upon whether the parameter has a negative or positive effect on the result. A check will be made to ensure that the 75th percentile value captures the mean of the distribution. Sensitivity analysis and development of DCGL values will be conducted on each radionuclide individually.
- Distribution coefficients, using the site-derived ranges, will be included in the sensitivity analysis.
- SNEC will include justification for the 10,000 m² contamination area and 1 m contamination zone thickness in Section 6 of the LTP.
- SNEC will use the same approach for developing surface and subsurface DCGL values (i.e., evaluating each isotope individually); however, the mass balance model will be used for developing DCGL values for the subsurface.
- NRC agreed to review by May 22, 2002, SNEC's approach for screening out radionuclides. This topic will be briefly discussed during a meeting planned for May 22, 2002, to discuss health physics issues.

A follow-up meeting will be held in July to further discuss the SNEC dose modeling analysis.

/RA/

Alexander Adams, Jr., Senior Project Manager
Research and Test Reactors Section
Operating Reactor Improvements Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No. 50-146

Attachments: 1. List of Attendees
2. Briefing Materials

cc w/attachments: Please see next page

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Docket No. 50-146

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**MEETING BETWEEN THE NRC STAFF AND
THE SAXTON EXPERIMENTAL CORPORATION**

May 8, 2002

NAME	TITLE	ORGANIZATION
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Sam Nalluswami	Project Manager (NMSS)	USNRC
Patrick Madden	Chief, Research & Test Reactors	USNRC
Patrick Isaac	Examiner, RORP/R&TR	USNRC
Robert D. Holmes	Project Consultant	GPU/FE
Art Paynter	RSO, FSS Manager	GPU/FE
Barry Brosey	GPU Tech. Analyst	USNRC
Pat Donnachie	GPU Consultant	USNRC
Jim Byrne	Manager, D&D Eng.	GPU
Mark Thaggard	Sr. Systems Performance Analyst	NRC/NMSS
Rodger Granlund	Independent Inspector	Penn State
Ernest Fuller	Citizen	Concerned Citizens For SNEC Safety
Daniel Hughes	Project Manager	USNRC

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Operating Reactor Improvements Program
Division of Regulatory Improvement Programs
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cc w/enclosures: Please see next page

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GHill (2) (T5-C3)	SSchneider (NMSS)	SNalluswami (NMSS)		

ADAMS ACCESSION NO: ML021420172

TEMPLATE #: NRC-001

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