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Jenuary 14, 1971

A. A. O'Kelly H. G. Mangeledorf

STATUS REPORT FOR SAKTON PLANT VISIT

Attached are a status report and an agenda for the plant wisit of January 26, 1971. Reservations have been made for you at the Holiday Inn, Altoons, Pennsylvanis, and the Saxton people (Montgomery, et al) will arrange to meet your arriving flight at the airport. Please call the ACRS office (Ethel) when you know your arrival time so pickups can be arranged.

> PARELINA DE BASE TI J & Hard

J. E. Hard Senior Staff Assistant

Attachments:

1. Saxton Status Report

2. Agenda for Visit to Saxton

cc: W. J. Kaufman, w/attachmants

FILE: Saxton project file

PDR

ACRS JEHard: emb 1-14-71 9103260177 910131 PDR FOIA DEKOK91-17 PD U.S. CONTRACTOR - Monthless OFFICE (1985 - D-96.4-998





Project: Saxton

Status : Operating Plant Visit

Discussion: Sexton is a pressurized-water testing reactor currently authorised to operate at powers up to 28 Met. It is the only reactor in the U.S. to employ a multi-layered pressure vessel. Its principal use is to test fuel and equipment and to train operating personnel. The owner-operator is the Sexton Nuclear Experimental Corporation, which is a wholly-owned subsidiary of Ceneral Public Utilities. Westinghouse provides technical support to SNEC.

The plant was built in the years 1950-62 and schieved initial criticality on April 13, 1962. The last ACRS review of Saxton was in August, 1967 when the Committee approved short-term reactor operation at 35 kMt. Since then, tests have been run, primarily for Westinghouse, on the following:

1. Glass burnable poison rods

2. Internally pressurized Pub2-Db2 fuel rods

Loose-lettice high power fuel rode
 Load-follow high power fuel rode

5. Effects of coolant pH on fuel temperature

6. Fuel failure monitoring systems

7. Crevice corrosion and hydriding tests on fuel

8. Clad creep rates,

9. And many other subjects.

The biggest potential problem at Saxton appears to be operation with failed fuel in the reactor. This results in very high redioactivity levels in the primary coolant (>100 mCi/cc), in high radiation levels to personnel, and in large amounts of highly radioactive wastes. Several ac idental releases of liquids and gases have occurred in the last two years. Emphasis on this matter and on the nature (character) of the fuel failures is recommended.

An agenda for the visit is attached.

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AGENDA FOR VISIT TO SAKTON JANUARY 26, 1971

- 1. Tour of Saxton facility.
- 2. Review of current and future plans for use of facility.
- Discussion on performance of loose-lattice and load-fellos fuel. Nature of fuel failures.
- Discussion on radiological effects of high activity primary coolant - personnel exposures, in plant sirborne activity, activity to environment.
- 5. Review of recent accidental releases of redwests gases.
- 6. Review of performance of fuel failure monitoring system.
- Discussion on effect of proposed downstream dam on site to flooding potential.

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FORM A SC-815 (Rev. 9-53)