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Project M-34

JUN 15 1983

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MEMORANDUM FOR: Leland C. Rouse, Chief
Advanced Fuel and Spent Fuel Licensing Branch
Division of Fuel Cycle and Material Safety

FROM: John P. Roberts
Advanced Fuel and Spent Fuel Licensing Branch
Division of Fuel Cycle and Material Safety

SUBJECT: MEETING BETWEEN NRC AND GESELLSCHAFT FUR NUKLEAR
SERVICE, mbH (GNS) STAFF

Date and Time: June 6-10, 1983; 9 a.m.

Location: Gesellschaft fur Nuklear-Service, mbH
88 Goethestrasse, Essen, Federal Republic of Germany

Attendees:	<u>GNS</u>	<u>TVA</u>	<u>NRC</u>
	H. Baatz	D. Dunn	J. Roberts, NMSS
	K. Janberg	(observer)	M. Schwartz, LLNL
	H. Geiser		
	D. Methling		
	J. Rollins		
	R. Wullaert		

Purpose: To discuss GNS Topical Report on a model CASTOR Ic independent
spent fuel storage installation and to visit machining and
foundry facilities for CASTOR type casks.

Discussion:

GNS is revising its Topical Report to respond to NRC comments of April 22, 1983 (letter to GNS from Leland C. Rouse, Chief, Advanced Fuel and Spent Fuel Licensing Branch, signed by John P. Roberts). Inclusion of data from tests, as referenced, compatibility of referenced data and analyses and quality assurance were items stressed in these discussions. In general, the pattern of the week was to discuss questions on the Topical Report in the mornings and to visit facilities in the afternoons. On June 9 and 10 discussions resumed in the evening at GNS. Facilities of GNS contractors visited included Kraftwerke Union in Mulheim, where cask machining and fabrication is underway; the Gontermann-Piepers GmbH foundry in Siegen; and the Siempelkamp Giesserei GmbH & Co. foundry in Krefeld. Visits to these facilities were conducted to observe the quality assurance procedures and controls applied to cask manufacture.

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Leland C. Rouse

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On June 9 the Wurgassen nuclear power plant was visited where a CASTOR Ic, which is located in the spent fuel pool area of the plant, has been storing BWR spent fuel since March 1982. Data from this demonstration is to be added as an appendix to the Topical Report.

On June 10 the Shamrock coal-fired power plant at Herrne was visited to observe 5 metric ton nodular cask iron waste containers, which had suffered an 800 meter drop test onto a concrete airstrip. (Videotape of this series of tests for waste containers was observed at GNS.)

A section of a CASTOR type cask, which had been subjected to assault by a one metric ton missile fired at a speed of about 300 meters per second was also examined where missile impact had damaged the cast fins of the cask.

GNS and its contractors gave NRC staff complete cooperation throughout our visit with respect to questions and examinations of facilities.

John P. Roberts
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