

71-9198

NOV 25 1985

RETURN TO
A. Machlin
396-SSFCTC:RHO
71-9198

MEMORANDUM FOR: The Files

FROM: Richard H. Odegaarden, FCTC, NMSS

SUBJECT: SUMMARY OF MEETING WITH GNS CONCERNING
MODULAR CAST IRON SHIPPING CASK (CASTOR-MTR)

Attendees

<u>GNS</u>	<u>Chem-Nuclear</u>	<u>GNSI</u>	<u>Fracture Control Corp</u>
Jack Rollins	Paul Highberger	Robert Anderson	Paul McConnell
Juergen Higenda		Kevin R. Kingsley	
Heinz Geiser			
Dieter Rittscher			

<u>Swanson Service Corp.</u>	<u>NRC</u>
Bill Jones	C. E. MacDonald
	R. H. Odegaarden
	C. R. Chappell

Introduction

At the request of GNS, a meeting was held at Silver Spring, Maryland, on November 20, 1985, to discuss tests for demonstrating fracture toughness of nodular cast iron.

Discussion

The NRC staff reiterated its letter of February 23, 1984, concerning nodular cast iron. The need for a full scale test with one or more flaws and the need to establish material properties was discussed at length.

Five casks have been built to the proposed CASTOR-MTR design. One cask will be used for drop test purposes. Each cask will have four core bores and K_{Ic} values measured from 12 samples. The size of the induced cracks will be based on the properties of the cask with the worst fracture control properties. The effect of cutting the crack in the test specimen with a laser needs to be evaluated to determine material properties in the crack area. Applicable items in the February 23, 1984, letter are to be followed in conducting the tests and satisfying that production casks are at least as good as the test cask.

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The tests may be conducted with or without a fuel basket. The staff pointed out the need to demonstrate the presence of neutron flux traps if needed, in the structural analysis.

An English translation of the detailed safety analysis report for the package is also needed as part of the revalidation process for this package.

Original Signed by
R. H. Odegarden

Richard H. Odegarden, Project Manager
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety, NMSS

Distribution:

Docket File

Mtg attendees

GBeveridge

NRC PDR

FCTC Mtg File Book

NRC PDR

FCTC R/F

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DATE ▶	11/15/85						