

Dr. Kamal Araj
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Cambridge, Massachusetts 02138

Dear Dr. Araj:

Enclosed are the following IDCOR reports on in-vessel and ex-vessel core melt phenomenology, hydrogen, and accident sequences:

Ground Rules for the IDCOR Program
Technical Report 3.1: Define Initial Likely Sequences
Technical Report 3.2: Assess Dominant Sequences
IDCOR Subtask 3.3: Selection of Dominant Sequences - Update
Technical Report 12.1: Hydrogen Generation During Severe Core Damage Sequences
✓ IDCOR Subtask 12.2: Hydrogen Distribution in Reactor Containment Buildings, Volume 1
IDCOR Subtask 12.3: Hydrogen Combustion in Reactor Containment Buildings
Technical Report 14.1A: Key Phenomenological Models for Assessing Explosive Steam Generation Rates
Technical Report 14.1B: Key Phenomenological Models for Assessing Non-Explosive Steam Generation Rates
Technical Report 15.1A: In-Vessel Core Melt Progression Phenomena
Technical Report 15.2A: Effects of a Hypothetical Core Melt Accident on a PWR Vessel with Top Entry Instruments
Technical Report 15.2B: Debris Coolability, Vessel Penetration, and Debris Dispersal
IDCOR Subtask 15.3: Core-Concrete Interactions

Reports on the release of fission products will be sent to you as soon as they are available.

Sincerely,

Distribution
RES Central File
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ASTPO Subject/Reading
CRYder Reading and Copy
Silberberg Reading

Christopher B. Ryder
Accident Source Term Program Office
Office of Nuclear Regulatory Research

Enclosures: As stated

OFFICE	ASTPO	ASTPO	8507120391	850415
SURNAME	RYDER:CB	SILBERBERG	PDR	FOIA
DATE	11/16/83	11/16/83	ALVAREZ85-110	PDR