

## INTERIM REPORT

Accession No. \_\_\_\_\_

Contract Program or Project Title: Thermal Hydraulic LMFBR Safety Experiments

Subject of this Document: November Monthly Highlight Letter

Type of Document: Monthly Highlight Letter

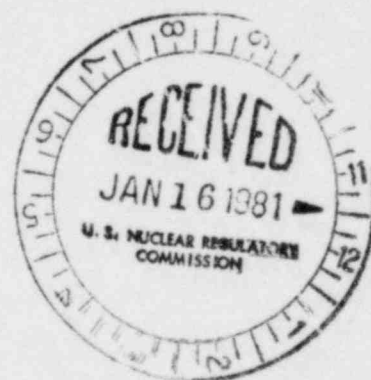
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Date of Document: November 1980

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U.S. Department of Energy



Prepared for  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555  
Under Interagency Agreement DE-AC02-76CH00016  
FIN A-3024

8101260 758

NRC Research and Technical  
Assistance Report

Monthly Highlights

for

November, 1980\*

Thermal Hydraulic LMFBR Safety Experiments

Experimental Modeling Group  
Department of Nuclear Energy  
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\* Work carried out under the auspices of the United States Nuclear Regulatory Commission.

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## 1. Thermal Hydraulic Reactor Safety Experiments

### 1.1 LWR Containment Steam Spike Phenomenology (A. Ginsberg)

An experimental program to simulate the transient quenching of core debris in water was initiated. Spheres will be preheated to a specified temperature in a furnace and will be dropped into a test section containing cold water. The rate of steam generation will be measured.

Equipment and test section sizing is underway. A 5 kW furnace has been obtained and will be used in preliminary experiments.

### 1.2 Core-Concrete Heat Transfer (G.A. Greene)

Subsequent to an informal meeting with D. Powers and J. Muir (SNL), initial planning of heat transfer studies began. A detailed letter summarizing these plans will be sent to NRC.

Distribution Thermal Hydraulic LMFBR Development Program

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