

QUARTERLY REPORT

January 6, 1981

Accession No. _____
Contractors Report No. _____

Contract Program or Project Title: Experimental Criticality Data for Code

Validation

Subject of this Document: Progress reported for July through September 1980

Type of Document: Informal quarterly progress report

Author(s): S. R. Bierman

Date of Document: December 3, 1980

Responsible NRC Individual and NRC Office or Division _____

Donald E. Solberg, Chief, Systems Performance Research Branch, SAFER:RES

This document was prepared primarily for preliminary or internal use. It has not received full review and approval. Since there may be substantive changes, this document should not be considered final.

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Prepared for
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

NRC FIN No. B2094

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QUARTERLY REPORT
NRC Research and Technical
Assistance Report

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December 3, 1980

Mr. Donald E. Solberg
Fuel Cycle Research Branch
Division of Safeguards, Fuel Cycle
and Environment
Office of Nuclear Regulatory Research
Nuclear Regulatory Commission
Mail Stop 1130
Washington, DC 20555

Dear Mr. Solberg:

Subject: Review of Program - Experimental Criticality Data
for Code Validation (Fin. No. B2094, TDO-777)

Modifications to the experimental assembly have been completed to permit measurements with depleted uranium and lead reflecting walls on either side of 4.31 wt% ^{235}U enriched UO_2 rods in water at a water-to-fuel volume ratio of 1.6. The design of experiments with soluble neutron absorbers is in progress.

A chart indicating the spending for the current month and total spending for the fiscal year to date is enclosed.

Very truly yours,

A handwritten signature in cursive script that reads "S R Bierman".

S. R. Bierman, Project Manager
Criticality Analysis

SRB:lt

Enclosure

cc: Mr. Richard H. Odegaarden

NRC Research and Technical
Assistance Report

MONTHLY PROGRESS/VARIANCE REPORT

DATE PREPARED:	10/1/80	PROJECT TITLE:	Criticality Data for Code Validation
SPONSOR:	USNRC	PROJECT START DATE:	7/1/75
PROJECT FUNDING:	\$182.4*	PROJECT COMPL. DATE:	Continuing
PROJECT MANAGER:	S. R. Bierman	LEAD LINE MANAGER:	E. D. Clayton

PROJECT NO.: TD-0777

* Includes \$32.4 carry over from FY-1980.

1. MAJOR OBJECTIVES

The procurement of experimental criticality data for use as confirmatory benchmark type data in criticality assessment of fuel element shipping casks.

2. PROJECT COSTS

