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SRE FUEL ELEMENT DAMAGE
FINAL REPORT

AEC Research and Development Report



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ATOMICS INTERNATIONAL

A DIVISION OF NORTH AMERICAN AVIATION, INC.

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SRE FUEL ELEMENT DAMAGE
FINAL REPORT

OF
THE ATOMICS INTERNATIONAL AD HOC COMMITTEE

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CONTENTS

	Page
Abstract	v
I. Introduction and Conclusions	I-1
II. Chronology of Events Since Issuance of Interim Report	II-1
A. Fuel Element Removal	II-1
B. Survey and Cleanup of the Reactor	II-1
C. Removal and Replacement of Damaged Moderator Assemblies	II-4
D. Cleanup of Piping and Equipment	II-8
III. Data and Evaluation	III-1
A. Fuel Damage Information	III-1
B. Reactor Coolant Contamination	III-13
C. Radiological Considerations	III-19
D. Reactor Physics	III-21
IV. Modifications to Reactor System	IV-1
A. Elimination of Tetralin	IV-1
B. Sodium System Changes	IV-2
C. Fuel Washing Cell	IV-3
D. Instrumentation Modifications	IV-4
E. Fuel Element Changes	IV-9
F. Effects of Modifications on Reactor Operations	IV-13
V. Summary	V-1
A. Cause of Fuel Element Damage	V-1
B. Causes of Reactivity Changes	V-1
C. Current Condition of Reactor System	V-2
D. Modifications to Avoid Recurrences	V-3
E. Reactor Operability	V-3
Appendix	A-1
References	R-1

FIGURES

II-1. Chronology of SRE Recovery Operations (FY-1960)	II-2
II-2. Chronology of SRE Recovery Operations (FY-1961)	II-3

FIGURES

	Page
II-3. Equipment for Removing Moderator Cans (7519-5240)	II-6
II-4. Removing a Moderator Can (7519-52115)	II-7
III-1. Fuel Element From Channel R-24	III-2
III-2. Fuel Slug Showing Effects of Thermal Cycling	III-4
III-3. Fuel Slug From Element From Channel R-21 (7519-51135-30) . . .	III-4
III-4. Mass Flow Reduction in SRE Fuel Channel Due to Formation of Plugs in Fuel-Tube Region	III-7
III-5. Outlet Temperature for Channel R-24	III-9
III-6. Outlet Temperature for Channel R-25	III-10
III-7. Outlet Temperature for Channel R-55	III-10
III-8. In-fuel Temperature for Element in R-55	III-11
IV-1. Moderator Coolant Jet Loop	IV-3
IV-2. Simplified Flow Diagram, Main Primary Sodium System	IV-3
IV-3. Fission-Gas Detection System	IV-5
IV-4. Core Location of Instrumented Fuel	IV-7
IV-5. Thermocouple Location of Instrumented Fuel	IV-8
IV-6. Operating Limits on Flux Power Deviation Circuit	IV-10
IV-7. Thorium-Uranium Five-Rod and Seven-Rod Clusters	IV-11
IV-8. Thorium-Uranium Fuel Element	IV-12
IV-9. Cruciform Holddown on Fuel Element	IV-13

ABSTRACT

Following power run 14 on the Sodium Reactor Experiment (SRE), 13 of the 43 fuel elements were found to be damaged. An Ad Hoc Committee was established to assist in determining the source of the difficulty, to review and advise on steps taken to return the reactor to operation, and to recommend any necessary changes in the reactor system or in operating procedures to avoid a recurrence. An Interim Report was issued, "SRE Fuel Element Damage," NAA-SR-4488, which presented the evidence available at that time as to the cause of the damage.

This Supplement is the concluding report of the Ad Hoc Committee. The conclusion as to cause of the fuel element failures has been modified to some extent on the basis of data developed since the first report was written. Several modifications have been made to the reactor system to avoid a recurrence.



