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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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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.



