

Edward

Office Memorandum • UNITED STATES GOVERNMENT

TO : Lyall E. Johnson, Chief
Licensing Branch

DATE: MAR 17 1959

FROM : Edson G. ~~Cass~~ *SW* Acting Chief
Hazards Evaluation Branch

SUBJECT: CURTISS-WRIGHT REQUEST FOR AUTHORIZATION TO TEST SPECIAL FUEL ELEMENT
DOCKET 50-39, PROJECT 28

In order to arrive at an evaluation of the potential hazards involved in the proposed instrumented fuel element test in the Curtiss-Wright Research Reactor, the following explanatory information is needed:

1. Describe the method of the mechanical assembly of the individual fuel plates to the side plates.
2. What precautions are taken to prevent the fuel plate assembly from becoming loose and coming apart during reactor operation?
3. An analysis of the consequences if the assembly became loose or fell apart during full power operation.
4. Effect, if any, on heat transfer characteristics of fuel assembly of new assembly method.
5. Effect, if any, on clad integrity of elements of mechanical assembly and of attaching thermocouples.

5. Will the mechanical assembly of the fuel elements or attaching of the thermocouples affect the integrity of the cladding.

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Lyall E. Johnson, Chief
Licensing Branch

Edson G. Case, Acting Chief
Hazards Evaluation Branch

CURTISS-WRIGHT REQUEST FOR AUTHORIZATION TO TEST SPECIAL FUEL ELEMENT
DOCKET 50-39, PROJECT 2E

In order to arrive at an evaluation of the potential hazards involved in the proposed instrumented fuel element test in the Curtiss-Wright Research Reactor, the following explanatory information is needed:

1. Describe the method of the mechanical assembly of the individual fuel plates to the side plates.
2. What precautions are taken to prevent the fuel plate assembly from becoming loose and coming apart during reactor operation?
3. An analysis of the consequences if the assembly became loose or fell apart during full power operation.
4. Effect, if any, on heat transfer characteristics of fuel assembly of new assembly method.
5. Effect, if any, on clad integrity of elements of mechanical assembly and of attaching thermocouples.

OFFICE ▶	HEB DL&R	HEB DL&R				
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DATE ▶	3/17/59	3/17/59				