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SUPPLEMENT A, PRODUCTION TEST IP-237-A,
IRRADIATION OF ENRICHED SEVEN-ROD CLUSTER ELEMENTS FOR ETR TESTING

OBJECTIVE

The objective of this supplement to PT-IP-237-A⁽¹⁾ is to extend the maximum authorized exposure of the two enriched cluster elements in the 3674-KE front-to-rear test hole from 1000 to 2000 MWD/T.

BASIS AND JUSTIFICATION

PT-IP-237-A authorized the irradiation of two enriched cluster elements in 3674-KW to a goal of 2000 MWD/T and two enriched cluster elements in 3674-KE to a goal of 1000 MWD/T for subsequent failure testing in the ETR. It has become apparent that the ETR failure testing facility will not be ready at the time originally planned. Rather than discharge the elements in 3674-KE when they reach 1000 MWD/T, this supplement authorizes retention of the elements in the reactor until they can be tested in the ETR, provided an exposure of 2000 MWD/T is not exceeded.

TEST DETAILS

The maximum exposure of the enriched Zircaloy-2 jacketed seven-rod cluster elements in the 3674-KE front-to-rear test hole is increased from 1000 to 2000 MWD/T.

The hazards associated with the test are unchanged since the elements were originally justified on the basis of 2000 MWD/T exposure.

All aspects of the original production test not specifically modified by this supplement will remain unchanged.

(1) Kratzer, W. K., Production Test IP-237-A, "Irradiation of Enriched Seven-Rod Cluster Elements for ETR Testing," HW-59335, February 23, 1959 (Secret).

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