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Page 2

REVISED LOADING AND OPERATING CONDITIONS FOR
PT-IP-309-A AND PT-IP-309-A, SUPP. A IN KER-3

Four heavy walled tubular elements authorized by PT-IP-309-A⁽¹⁾ and two heavy walled tubular elements with capped jacket defects authorized by PT-IP-309-A, Supplement A,⁽²⁾ were charged in KER-3 on July 3, 1960. Loading and operating conditions for the charge are given in HW-65535.⁽³⁾

One more element with a capped jacket defect, PT-IP-309-A, Supp. A, will be charged upstream of the existing loading to obtain elements at two different exposures for failure testing in the ETR. This document provides the fuel element loading, the high outlet temperature trip, desired operating outlet temperature, and boiling point suppression trip for the revised charge. The loading is given in Table I and the operating conditions in Figure 1.

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Process & Reactor Development Subsection
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1. Kratzer, W. K. Production Test IP-309-A, Irradiation of Heavy Walled Tubular Elements in the KER Loops, HW-64183. March 7, 1960.
2. Kratzer, W. K. Supplement A, Production Test IP-309-A, Irradiation of Heavy Walled Tubular Elements in the KER Loop, HW-65476. June 1, 1960.
3. Kratzer, W. K. Loading and Operating Conditions for PT-IP-309-A and PT-IP-309-A, Supp. A, HW-65535. May 10, 1960.

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HW-66893
Page 3

TABLE I

FUEL LOADING FROM THE DOWNSTREAM
END OF THE PROCESS TUBE

<u>Position</u>	<u>Number of Pieces</u>	<u>Material</u>
1	1	Eight-inch steel perf
2-26	25	Eight-inch steel spacers
27	1	Eight-inch triangular perf
28	1	Sixteen-inch defected element, (PT-309, Supp. A)
29	1	Eight-inch triangular perf
30	1	Sixteen-inch defected element, (PT-309, Supp. A)
31	1	Eight-inch triangular perf
32	1	Sixteen-inch unalloyed element, (PT-309)
33	1	Eight-inch triangular perf
34	1	Sixteen-inch unalloyed element, (PT-309)
35	1	Eight-inch triangular perf
36	1	Sixteen-inch alloyed element, (PT-309)
37	1	Eight-inch triangular perf
38	1	Sixteen-inch unalloyed element, (PT-309)
39	1	Eight-inch triangular perf
40	1	Sixteen-inch defected element, (PT-309)
41	1	Eight-inch triangular perf

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Page 4

FIGURE 1

OPERATING TEMPERATURE AND TRIP SETTINGS
AS A FUNCTION OF THE OBSERVED TUBE ΔT .

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