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INITIAL OPERATING CONDITIONS FOR
KW REACTOR

AUTHOR

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Richland, Washington
August 17, 1954

J. E. Maider
Manager
MANUFACTURING DEPARTMENT

INITIAL OPERATING CONDITIONS FOR KW REACTOR

Reference 1 - Letter AB Greninger to USAEC - "Project
CA-512-W - Kaiser Engineers Purchase
Order KE-6664 190-K Secondary Pump
Castings." June 21, 1954.

Reference 2 - Document HW-32214. "Minutes of Meeting No. 3
K Pile Start Up Council." R. E. Johnson,
June 25, 1954.

It is planned to operate the KW Reactor process water system within the limitations set forth in reference 1 and discussed in detail in reference 2, until the faulty pump casings have been replaced. Reference 1 restricts pump speed to a maximum of 1,380 rpm which corresponds to a process water flow of approximately 120,000 gpm. More recent data on pump characteristics indicate, however, that at a pump speed of 1,380 rpm a process flow of 130,000 gpm may be expected. The pump discharge pressure at this flow will be 318 psig.

The reactor will operate at whatever power level can be achieved with this flow consistent with the process and safety limits imposed to prevent damage to the reactor or danger to personnel. This level is estimated to be about 1,500 MW.

RO Maider
MANAGER, REACTOR SECTION

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