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ORNL
CENTRAL FILES NUMBER

CF-56-11-57

DATE: November 15, 1956

COPY NO. *43*

SUBJECT: Effect of HRT-CP Cooling Water Requirements
on the Reactor Circulating Loop

TO: W. D. Burch

FROM: R. E. Brooksbank

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considered also as a means of cooling the HRT-CP circuit; however 150-200 gpm would be required because of the small ΔT available.

The HRT-CP cooling system would operate generally in the same manner as the reactor circuit. However, it is recommended that steam condensate from the heating/cooling jackets be routed directly to waste to eliminate excessive heat load on the HRT-CP heat exchanger. Furthermore it will be necessary to isolate the steam traps when cooling water is fed to the jackets.

The surge tank should have a 100-gallon capacity and should be equipped with a sampling tap, a means for adding chemical additives and demineralized water and suitable liquid level instrumentation.

A schematic drawing of a proposed HRT-CP cooling water system is presented in Figure 1.

R. E. Brooksbank

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PROPOSED
DEMINERALIZED
HRT-CP
COOLING WATER LOOP

FIG I

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