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(SR/H-853) VERSION
October 29, 1953.

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DESIGN DIVISION
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ATTENTION: J. G. BREWER

PROJECT 8980 - SAVANNAH RIVER PLANT - BUILDING 105-R,P,L,K,C
PROCESS WATER SYSTEM OVERFLOW FACILITIES

Overflow tank - [REDACTED] of the process water system acts principally as a surge tank to maintain a constant volume of water within the system during operation. In addition, this tank and drain tank [REDACTED] were intended to store drainage from the process plenum during reduced heavy water flow or flow shut down conditions at which time the process plenum is partially full or empty.

There are indications that drain tank [REDACTED] may contain oil during reactor operation. This oil may come from the main pump bearings via the leak collection system. Consequently, drain tank [REDACTED] should not be used to store heavy water as originally intended. An overflow tank large enough should be provided for this purpose.

Please make provisions to provide the greater overflow capacity at all areas. Operations will install the equipment in areas where the Construction Division is not available.

It is suggested that provisions be made to store at least 1500 gallons. This would handle the approximately 1000-gallon hold up in the process plenum plus the 500 odd gallon increase in volume expected due to process water expansion over an operating temperature range from 15 to 57°C.

ATOMIC ENERGY DIVISION
J. B. Tinker, Manager
Process Section

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WAC/blt Reviewing
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