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100-KEW COOLANT BACKUP ADEQUACY

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This document consists of
2 pages.

April 29, 1964

T. W. Ambrose, Manager
Process & Reactor Development
1760-D Building, 100-D Area

100-KEW COOLANT BACKUP ADEQUACY

An engineering study to assess the adequacy of the 100-KEW coolant backup system is currently being conducted by Design Engineering personnel. In the event that study conclusions reveal a need for increased coolant flows under current reactor coolant backup supply criteria, action recommendations necessary to provide such flows will be provided.

In order to evaluate the relative adequacy of available coolant backup supply to a given reactor under emergency conditions, it is necessary to establish the conditions under which a specific flow must be supplied. Recognizing the difficulty in defining such conditions, our studies will be based on the following assumptions:

1. A minimum of three pumps (two low lift pumps and one steam-driven backup pump) will remain in operation at one reactor plant in the event of an electrical power failure and a simultaneous failure of steam generating equipment at the other reactor plant.

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T. W. Ambrose

2. A flow of 32,000 gpm to the stricken reactor will be adequate to meet reactor coolant requirements at a coolant supply temperature of 25 C. It is understood that this flow will be approximately ten per cent greater than minimum requirements.

Since current studies are targeted for completion by July 1, 1964, your verification of the appropriateness of the above study assumptions will be appreciated.

HW Heacock
Manager, Design Engineering

HW Heacock:hrr

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