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May 20, 1964

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RECOMMENDED HIGH-TANK TEMPERATURES FOR
MAINTENANCE OF HIGH-TANK BACKUP SUPPORT,
REVISION 3

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This document consists of 3 pages.

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RECOMMENDED HIGH-TANK TEMPERATURES FOR
MAINTENANCE OF HIGH-TANK BACKUP SUPPORT,
REVISION 3

May 20, 1964

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May 20, 1964

R. S. Bell, Manager
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RECOMMENDED HIGH-TANK TEMPERATURES FOR
MAINTENANCE OF HIGH-TANK BACKUP SUPPORT,
REVISION 3

- Ref: (1) Greager, O.H., "Recommended High-Tank Temperature for Maintenance of High-Tank Backup Support, Revision 2," June 8, 1961, (Secret).
- (2) Jones, S.S., and J.L. Manuel, "Numerical Results of PT IP-338A and Supplement A, DR Reactor Heat Decay Test at High Outlet Water Temperatures, "HW-75727, December 3, 1962, (Secret).

Since the referenced¹ document was issued, high-tank adequacy at the smaller reactors has been improved at some and reduced at others through a combination of factors. A principal change which affected all areas was the relaxation of the heat extraction requirements² at the critical time of high-tank take over. This modification provided a five to ten per cent increase in the assessed high-tank adequacy. In addition, some reactors have descaled the high-tank discharge lines and have retested to determine the through reactor-high tank flow rate; and others have not descaled the high-tank discharge lines since the acid cleaning program of FY-61 nor have they recently reevaluated the high tank-through reactor flow capability. Therefore, the purpose of this letter is to recommend revised curves for the high-tank temperature required to maintain adequate high-tank backup support at the six small reactors. Compliance with the conditions shown on these curves will ensure adequate high-tank flow rates following the simultaneous loss of electric and steam power.

Current power levels are well below the maxima indicated by the curves for current high-tank temperatures and these curves are valid until superceded. To avoid confusion, reference one will be recalled.

O. H. Greager
Manager,
Research and Engineering

OH Greager:MAC:md

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