TMI-516

WESTINGHOUSE ELECTRIC CORPORATION

ASTRONUCLEAR LABORATORY

PROJECT NERVA - THERMAL DESIGN INFORMATION

TO: J. Kenney

No: ~~NRX-A-1-71~~ ^{2PAVH-TMI-516}

cc: W. H. Esselman

Date: November 20, 1962

W. H. Arnold

Title: Size of Coolant Slots in
the Outer Baffle Weldment
Assembly and Seal Flange

W. G. Roman

F. D. Retallick

K. L. Rieke

D. C. Thompson

J. P. Tully

MASTER

The coolant passages in the baffle weldment assembly and seal flange have been sized to match the temperature distribution in Curve No. 553775 from thermal design information, NRX-A-1:71, dated October 31, 1962. The average circumferential temperature is estimated to be 50° less than that shown on the curve.

The maximum distance between adjacent slots is to be 0.5". The depth of all slots is to be 0.05". The width of an individual slot may vary from 0.7" to 0.125" as is necessary to avoid undercutting the bolt holes and still maintain a 0.5" spacing. The orifice hole connecting the two slots is to have a 0.3125" diameter.

C. V. Buzza has made an initial layout of slot width and spacing which meets the above requirements. A partial tracing of this layout is attached.

References: RMDS Work Request No. 41:41:72-1W

WANL-TMI-232

Drawing No. 936J021, Sheet 1

By:

D. L. Black
D. L. Black

Date:

11/20/62

Approved:

J. P. Tully

Date:

11/20/62

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WESTINGHOUSE ELECTRIC CORPORATION

A TYPICAL SECTION

SECTION A-A
SCALE 2:1

COOLANT SLOTS IN BAFFLE
WELDMENT ASSEMBLY AND SEAL FLANGE

D.L. BLACK

11/20/62

CURVE NO. 553982