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FLOW TEST - CG-482 "DR TYPE" REAR PIGTAIL
WITH B,D,DR & F PILE FITTINGS

AUTHOR

K. J. Bell

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By Authority of CG-PR-2
Rm Iken 10-6-92
By PN Eick 4-26-94
Verified By WHL/CLB 4-26-94

- COPY 1-~~XXXXXXXXXX~~
1. EL Etheridge
 2. KJ Bell
 3. LP Bupp
 4. AB Carson
 5. HW Heacock
 6. JW Hedges
 7. LE McEwen
 8. PH Reinker
 9. WD Richmond
 10. HP Zuhr - WK Alexander
 11. 300 Files

May 25, 1956

TO: E. L. Etheridge

FROM: K. J. Bell

FLOW TEST - CG-482 "DR TYPE" REAR PIGTAIL
WITH B,D,DR & F PILE FITTINGS

This letter transmits the data from the 189-D Hydraulics Laboratory flow test on three CG-482 rear pigtails. The tests were run with a standard B,D,DR and F rear nozzle and rear Parker fitting over the range of flows and temperatures anticipated for early CG-558 operation.

The data from the test are given on the next page and are plotted in the figure. All three pigtails gave essentially identical results. For comparison the results of previous tests with present rear pigtails are also plotted in the figure.

It is seen that, over the flow range of interest, there is no significant difference between the flow characteristics of the CG-482 pigtail and the one presently used even though the CG-482 pigtail is of greater diameter.

msp

K. J. Bell

Approved by:

L. D. McEwen
Head - Heat Transfer Unit

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B,D,DR & F FITTINGS, CG-482

Pigtail #1

Flow, gpm	40.5	38.4	34.2	36.7	40.3	42.4	42.1	40.0	36.2
Rear Header, psig	30.5	30.0	30.0	30.5	30.5	31.0	29.5	30.0	28.5
Rear Nozzle Barrel, psig	114	103.5	89	98.5	121.5	134.5	138.5	125.5	102
Outlet Temp., °C	11.0	11.0	11.5	100	100	100.5	110	111	109

Pigtail #2

Flow, gpm	40.4	38.25	34.25	36.2	40.15	42.15	42.1	40.0	35.9
Rear Header, psig	30.5	30.0	30.0	30.5	30.0	29.5	28.0	30.0	31.0
Rear Nozzle Barrel, psig	114.5	103.5	88.5	99.5	122	135	135	123	102.5
Outlet Temp., °C	13.5	13.5	14.5	100	101	100	106	100	110

Pigtail #3

Flow, gpm	40.3	38.2	34.2	36.1	40.0	42.1	41.7	39.6	35.5
Rear Header, psig	30.0	30.5	29.5	30.0	29.0	29.5	30.5	31.0	28.5
Rear Nozzle Barrel, psig	113.5	103	88.5	99	123	136	132.5	121.5	102.5
Outlet Temp., °C	15.0	15.0	15.5	100	98.0	100.5	108.5	109	109

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FRANK TEST - CG-483
WEAK PULSAL USE
ON BULB TUBE

—— RESULTS FOR CG-482 HISTORY
—— RESULTS FOR HISTORY BULB TUBE
30 PPS PER HANDED PRESSURE

CG-482
CG-483

Flow - CGM

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