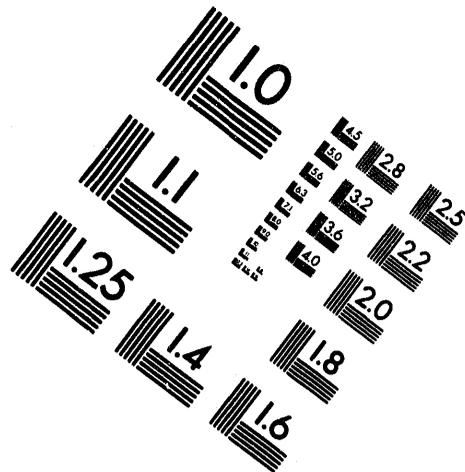
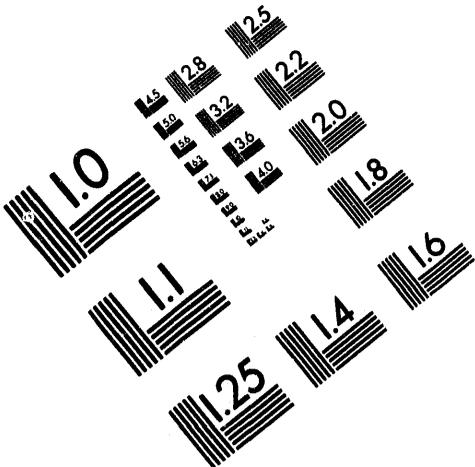




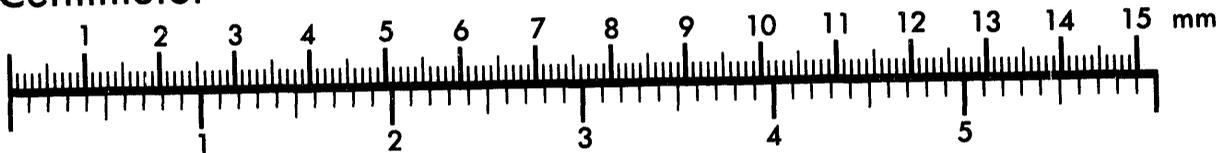
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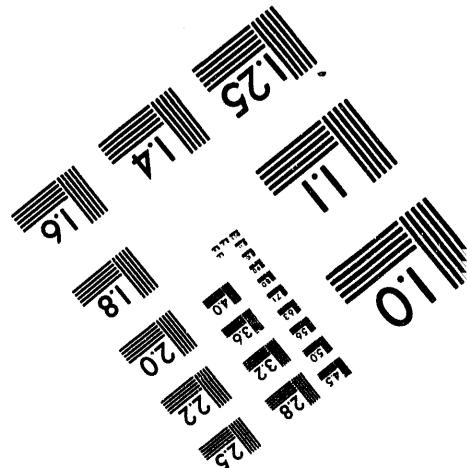
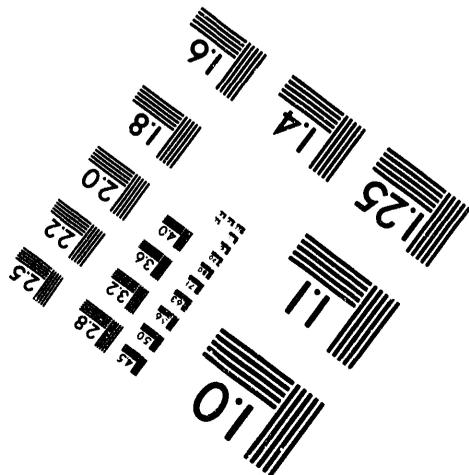
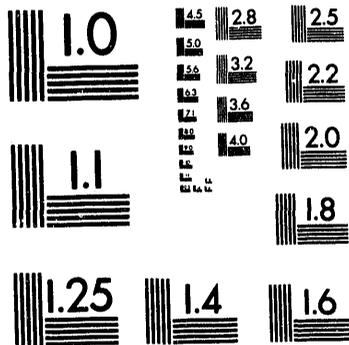
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Inches



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WATER SHUT-OFF TIMES
FOR C OVERBORE CHARGES

by

S. S. Jones
Reactor Engineering Unit
Research and Engineering Section
IRRADIATION PROCESSING DEPARTMENT

February 15, 1962

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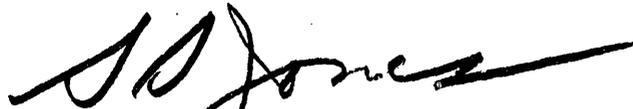
S. A. Wood
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WATER SHUT-OFF TIMES FOR C OVERBORE CHARGES

The enclosed figure is provided for interim water shut-off conditions prior to the preparation of complete curves incorporating the effects of heat losses to the surrounding tubes. Times provided here are to reach 100°C. The curves provided in this figure are based upon the following:

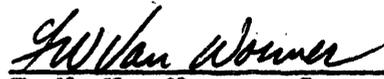
1. Procedure outlined in HW-68967 (for fuel CIVN, and A1 tubes).
2. A central power generation of 120 KW/Ft.
3. A moderator period of 2.2 hours.
4. A flow of 2 gpm before water shut-off.
5. A fuel and tube total heat capacity of 1.07 Chu per °C; ft. of length.

More complete results are planned for determination by means of an IBM program.



S. S. Jones
Reactor Engineering Unit
RESEARCH AND ENGINEERING

APPROVED:



F. W. Van Wormer, Supervisor
Reactor Engineering Unit
RESEARCH AND ENGINEERING

SSJ:zmd

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Time After Scram - Hours -

100

90

80

70

60

50

40

30

20

10

0

174
175
176
177
178
179
180

8

10

12

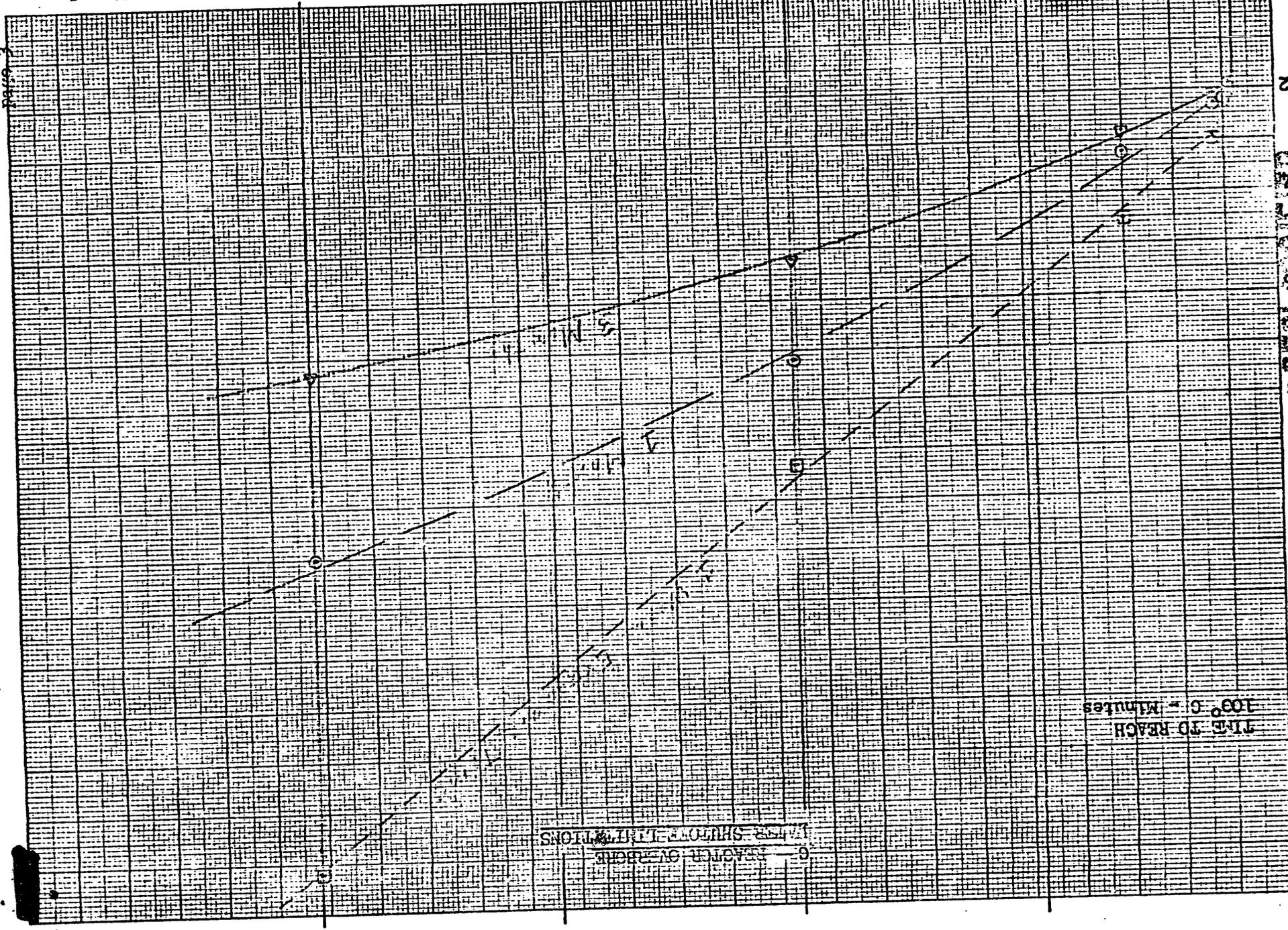
14

16

18

TIME TO REACH
100°C - Minutes

6 - REACTOR OVERHEAT
SNOWMELTING ELEMENTS



DATE

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7/28/94

END

