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[REDACTED] 200/CCRS

Contract AT(30-1)-2789

TO: Mr. H. C. Gray

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CNIM-3912
November 30, 1961

FROM: R. W. O'Brien

CC: R. A. Doak
J. Krasnitski
D. E. Robison

SUBJECT: Primary Piping Static
Test Design Request

W.O. 304051

[REDACTED] - R.D. R. Doak 30 Nov 1961
CLASSIFICATION AUTHORIZED CLASSIFIER DATE

It is requested that a design be initiated for the primary piping static test. This test is necessary to provide information as to the reliability of the pipe subjected to reactor operating conditions. The test conditions are as follows:

Temperature - 2000°F (isothermal)
Pressure (effective) - 42 psi
Test time - 10,000 hours

It will be necessary to test two sizes of pipe as shown on the preliminary piping layout (2.250" O.D. x .095" wall and 3 1/2 SCH. 10 pipe). The test specimens shall be jacketed in an inconel containment vessel. The test rig should be similar to the design of the 4 inch pressure vessels (T-1030244). In addition an outer containment vessel constructed of stainless steel must be provided around the clam shell heaters and the inconel containment vessel. This is to provide a inert atmosphere for the inconel vessel.

Provisions should be made in the design for a 1/4" clad thermocouple. It is planned to use the pipe test as a vehicle for studying experimental Tc's (Cb-Mo and W-W.26% Re).

It is requested that all design work be completed by February 1, 1962.

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Jerry Keyes
Authorizing Official

Date: 10-27-60

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6-16-82

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CLASSIFICATION CANCELLED

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BY AUTHORITY OF CCB-2
BY [Signature] DATE 1/9/76

0115587030

Mr. H. C. Gray

CNLM-3912

November 30, 1961

For further information contact R. O'Brien, Extension-3588.

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R. W. O'Brien
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Approved By

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RMO/has

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