Westinghouse

MASTER

WANL-TMI-269

DATE September 21, 1962

SUBJECT Capsule Thermal Shock Test

Reference: 10:50:73-13W

TEST REPORT

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A report pursuant to Work Request, Serial 10:50:73-13W, dated 9/17/62, covering the effects of thermal shock on a KTWI B-5 shield capsule filled with lithium hydride pellets is attached.

The capsule was heated uniformly to 1000°R (540°F) and then immersed in the liquid nitrogen bath. After cooling the capsule was inspected with a 3X stereomicroscope. This cycle was repeated six times. No cracks or leaks were observed after completion of each cycle. Temperatures were monitored with two chromel-alumel thermocouples. Original data is available upon request.

John J. Schreiber
Engineering Mechanics

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