



28-July-66

**BENDIX SYSTEMS DIVISION ANN ARBOR, MICH.**

Heat Flow Experiment

NO.

ATM-430

REV. NO.

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This ATM is submitted to comply with Action Item B6-0721-12B, Herbert to Kenney. This item was assigned during the MSC meeting of 21-July-66 held at The Bendix Systems Division, Ann Arbor, Michigan.

"Bendix Systems to supply MSC with a break down on weight estimates for the heat flow experiment." The elemental weights based on the study became available 7-26-66. This concept has a definite weight problem. A meeting has been scheduled with the principle investigator to review his performance requirements to reduce the weight to 8.0 pounds maximum.

Prepared by

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Approved by

Jack E. Dye



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Weight Estimate for the Heat Flow Experiment

The following estimate is based on the dual static probe. This estimate is predicated on using 3 dual probes. Each dual probe consists of two temperature gradient bridges, four two level conductivity heaters, four conductivity bridge sensors, and four thermal sensors located along the probe cable.

<u>Unit</u>	<u>Qty.</u>	<u>Weight (lbs.)</u>
Dual Probe and Cable	3	1.5
Probe Container	1	2.2
Probe Electronics	3	6.3
Central Electronics	1	1.9
Electronics cables and Reels (30 foot - 30 conductors)	3	3.0
		<u>14.9</u> (specification 8.0 pounds maximum)