

ATTACHMENT*

OAK RIDGE NATIONAL LABORATORY

Technical Assistance Program
for Division of Systems Safety
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

FIN #B0256 - Review of Computer Based
Protection Systems
NRC Technical Monitor: L. Beltracchi

Instrumentation and Controls Division

Progress Report for August 1979

Principal Investigator: J. B. Bullock

Summary of Effort and Progress

Task 1 - RESAR - 414

Subtask 1 - Defense in depth of Integrated Protection Systems

(IPS): completed.

Subtask 2 - V&V Audits of IPS: ORNL participated with NRC staff in a review meeting on the RESAR-414 V&V program in Bethesda, Maryland on August 30, 1979. A presentation was made to the NRC staff on the total V&V program and accomplishments during a meeting at ORNL on August 23, 1979. Plans for supplemental V&V audits were delayed at the request of Westinghouse.

Subtask 3 - Sneak Circuit Analysis: Draft work scopes have been discussed with Boeing Aerospace for the Software Sneak Analysis on a limited size package of the RESAR-414 software. Pending completion of the blanket contract negotiations we expect to initiate work on a 2K-4K byte software module.

* Attachment to letter from John L. Anderson to R. M. Satterfield dated September 13, 1979.

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F. W. Manning attended a meeting at Bethesda on September 6 with J. F. Gleason of Wyle Laboratories and NRC-DOR personnel. The subcontract progress at Wyle Labs was discussed and a few suggestions on the tabulation of probable trouble items in equipment were agreed upon. Wyle is scheduled to complete and submit the tabulation shortly after September 15, 1979.

Plans for Next Reporting Period

Review will be continued of the documents submitted for BOP items 7,8, 11 and 12.

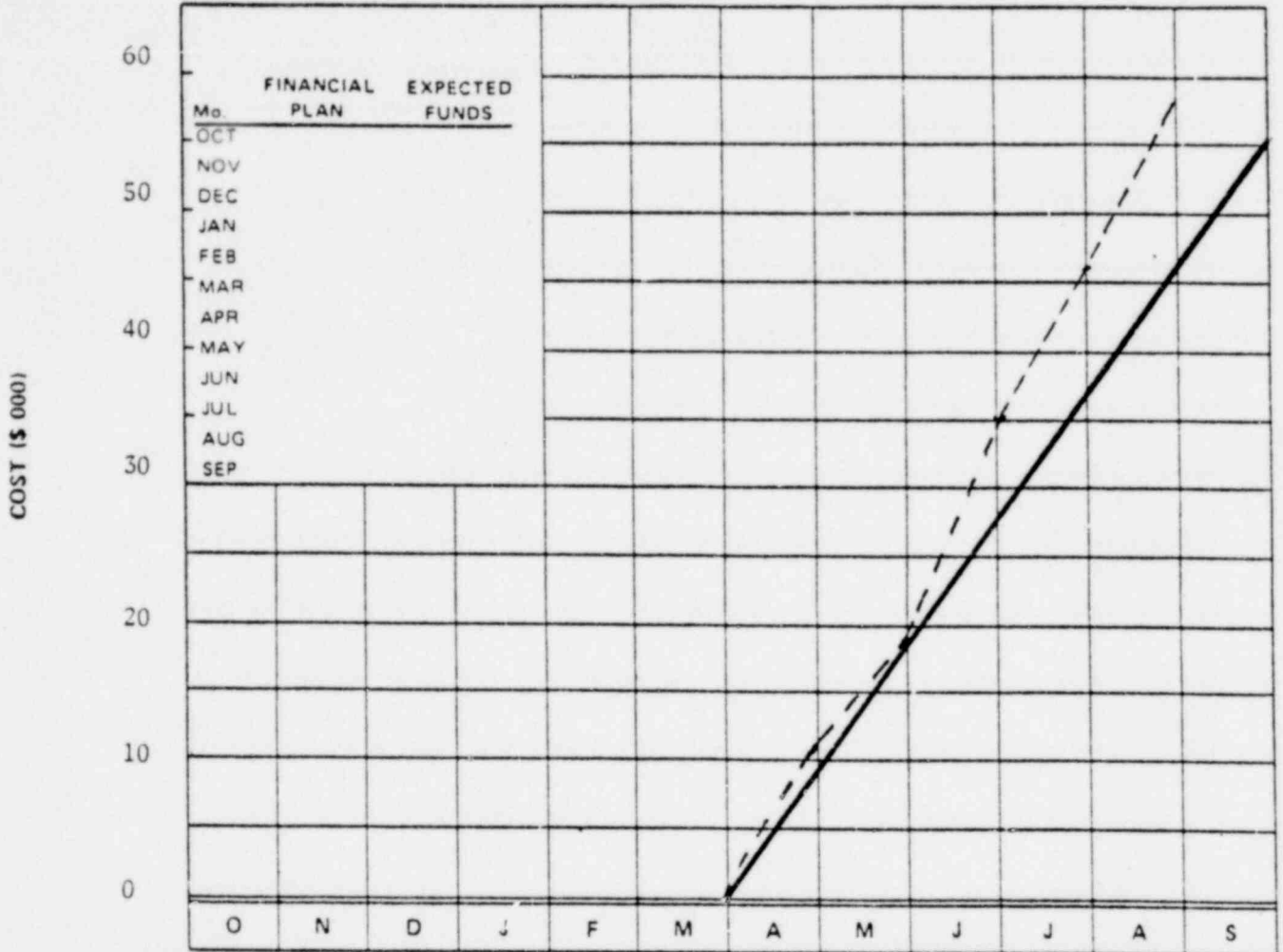
Funds Expended

	<u>Task 1</u> <u>Comanche Peak</u>	<u>Task 2</u> <u>CESSAR</u>	<u>Task 3</u> <u>WPPSS</u>	<u>Task 4</u> <u>WCAP-8587</u>
August 1979	11,676	0	0	0
FY to Date	58,510	0	1,141	0
Budget	55,000	24,000	15,000	5,000

COST/DISTRIBUTION
VARIANCE
FY 1979

PROGRAM B0726 AD _____

DIVISION Task 1 - Comanche Peak FM/FO _____



DISTRIBUTION (\$ 000) $\times \text{---} \times$

MONTHLY	0	0	0	0	0	0	10	9	9	9	9	9
CUMULATIVE	0	0	0	0	0	0	10	19	28	37	46	55

COST (\$ 000) $\times \text{---} \times$

MONTHLY	0	0	0	0	0	0	10	9	16	12	12	
CUMULATIVE	0	0	0	0	0	0	10	19	35	47	59	
\$ VARIANCE												

% VARIANCE

+10												
+5												
0												
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COMMENTS

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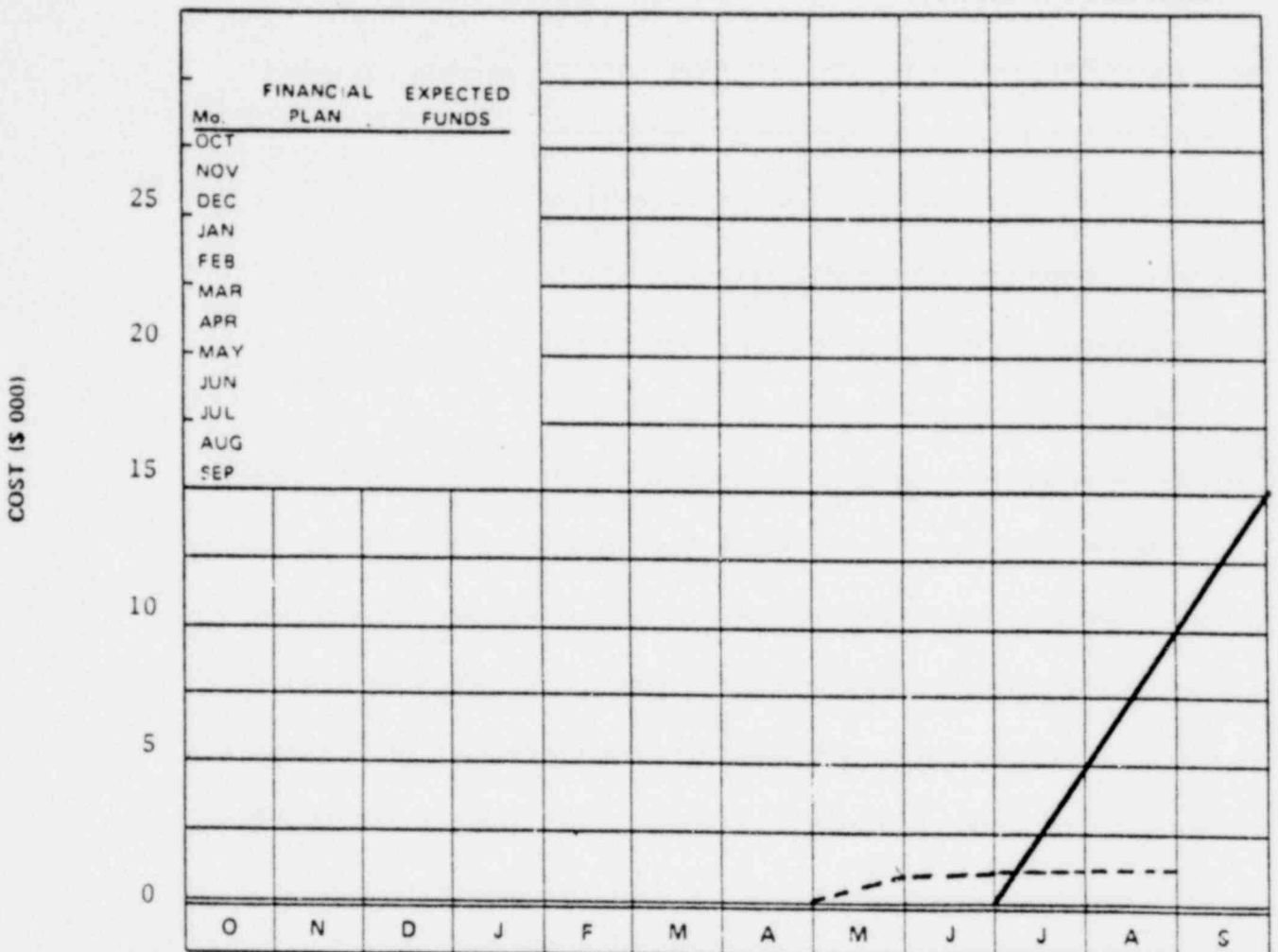
COST/DISTRIBUTION
VARIANCE
FY 1979

PROGRAM B0726

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DIVISION Task 3 - WPPSS

FM/FO _____



DISTRIBUTION (\$ 000) *—*—*

MONTHLY	0	0	0	0	0	0	0	0	0	5	5	5
CUMULATIVE	0	0	0	0	0	0	0	0	0	5	10	15

COST (\$ 000) *---*

MONTHLY	0	0	0	0	0	0	1	0	0	0		
CUMULATIVE	0	0	0	0	0	0	1	1	1	1		
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COMMENTS

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