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S. P. SCHWARTZ  
PRESIDENT

JUL 18 1962

Mr. M. B. McDavitt, Vice President  
Bell Telephone Laboratories, Inc.  
Murray Hill, New Jersey

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: <u>u</u>	AUTHORITY: <u>R. B. Crank</u>
PERSON CHANGING MARKING & DATE: <u>Emelda Selph 4/11/97</u>	RECORD ID: <u>97SN1083</u>
PERSON VERIFYING MARKING & DATE: <u>Charles Ballantyne 4/11/97</u>	DATED: <u>4/12/97</u>

Dear Mr. McDavitt:

As you know, the Small Boy experiment has now been successfully carried out. Early indications are of substantial success. We agree, however, with the suggestion in your letter of June 26, 1962 that there remain important additional areas of investigation of the electromagnetic effects of nuclear explosions, especially as they affect communications facilities.

Further test programs which could provide an opportunity for such studies are now in the planning stage. The proposed BIG BOY experiment is a good example of these. At the present time, however, inasmuch as the Dominic and Nougat series are now drawing to a close, it is impossible to predict time scales upon which future testing will be based. A meeting at DASA some 4 to 5 weeks hence is planned to discuss the results of Small Boy and its implications for future EEM tests. In this connection, we understand that DASA has received a directive not to plan for any atmospheric tests during FY-63. We feel, nevertheless, that it is desirable to continue thinking about future test programs.

We are pleased to note formation of the Steering Committee consisting of Mr. W. K. MacAdam, Mr. J. R. Rae, Mr. C. M. Mapes and Mr. C. F. Wiebusch. I have asked Dr. G. C. Dacey, Vice President, Research, and Dr. T. B. Cook, Director of Nuclear Burst Physics, to serve as the principal contacts with them from Sandia Corporation. Dr. Cook, you will recall, was one of the scientific directors of the Small Boy experiment and is familiar with the plans which exist for future testing in this area. His relationship with AFSWC and DASA are close and he will keep you informed of any developments in the electro-magnetic area.

It is desirable to continue planning for future possible tests programs although no such tests appear to be imminent. The extent and detailed nature of these plans must be correlated with the overall objectives of DASA and the time scales of future testing. I have accordingly

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1 <sup>st</sup> Review Date: <u>3-20-97</u>	Declassification (Circle Numbers):
Authority: <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD <u>W. Lape</u>	1 Classification Retained
Name: _____	2 Classification Changed to: <u>u</u>
2 <sup>nd</sup> Review Date: <u>4/2/97</u>	3 Contains No DOE Classified Information
Authority: ADD	4 Coordinate With: _____
Name: <u>R. B. Crank</u>	5 Contains UCAF? _____
	6 Comments: <u>OK for [signature]</u>

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Mr. M. B. McDavitt

- 2 -

asked that you be informed immediately of any new developments in the electromagnetic test area, in order that joint planning can be carried out.

Sincerely yours,

SIGNED FOR AND IN THE ABSENCE  
OF S. P. SCHWARTZ, PRESIDENT  
R. W. HENDERSON  
VICE-PRESIDENT  
PRESIDENT

GCD:kw

Copy to:

J. P. Molnar, BTL  
C. F. Wiebusch, BTL  
W. K. MacAdam, BTL  
J. R. Rae, BTL  
C. M. Mapes, BTL  
G. C. Dacey, 5000  
J. W. Easley, 5300  
B. Cook, 5400  
G. A. Fowler, 7000  
S. P. Schwartz, 1

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