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July 23, 1963
RS 5410/130

MR. C. WINTER - 9130

Re: 1964 Nuclear Vulnerability Tests (S)

Ref: SRD Memo, RS 1/1438, Schwartz to Distribution, dated July 16, 1963, subject: Timpani-Area Program (U)

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Department 5410 has reviewed the proposed program of vulnerability experiments and concluded that only for blast and gamma ray and neutron fluxes is a free-field program as such necessary. No thermal or fire-ball temperature measurements are believed necessary for the vulnerability tests.

3428-3

The free-field blast measurements will consist only of shock photography to define peak pressure versus distance along direction through vicinity of the exposed devices. These measurements will require photography from three stations positioned to view the growth in the desired directions. Each station would require both long and short focal length lens cameras operating at about 1000 - 2000 fps. It is assumed that gage measurement of free-field overpressures will also be obtained as part of the study of pressure distribution on the exposed vehicles.

The gamma ray measurements will consist of gamma rate versus time measurements made with gas and plastic scintillators at three stations with a total of about 15 scope channels and 14 tape recorder channels (100 kc). Some information on the high energy neutrons will be obtained also by the plastic scintillators.

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OCT 1 1964

Time integrated fluxes of neutrons would be measured using fission foil and threshold detectors. These should be done at the three gamma stations. It is assumed that other measurements of this type will be required inside of various exposed items and that these will be called for by the people planning those exposures.

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We recommend that arrangements be made with the Nuclear Defense Laboratory to provide and count these detectors.

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SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 st Review Date: 3-20-97	Determ. 2008 (Circle Numbers):
Authority: <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD us by	1. Classification Retained
Name: [Redacted]	2. Classification Changed to: U
2 nd Review Date: 4/2/97	3. Contains No DOE Classified Information
Authority: ADD	4. Coordinate With:
Name: R. B. Crane	5. Contains UCAF
	6. Comments: OK for [Redacted]

UG 3 1966

3428-3

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: U	AUTHORITY: R. B. Crane
PERSON CHANGING MARKING & DATE: Emelda Selph 4/7/97	RECORD ID: 97SN1074
PERSON VERIFYING MARKING & DATE: Carmela Phillips 4/9/97	DATED: 4/2/97

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Mr. C. Winter - 9130

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July 23, 1963
~~RS 5410/130~~

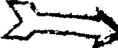
The budget estimates for this program may be obtained from 7200 since the major effort and expenditures will come from there. The 5410 effort would consist of 1 MY spread over FY 64 and FY 65 spent in planning and analysis of the experiments.

Original Signed By
B. F. MURPHEY

BYRON F. MURPHEY - 5410

CDB:5413:is

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