

CONFIDENTIAL

DEFENSE ATOMIC SUPPORT AGENCY

<u>BUDGET ACTIVITY - TASK - PROJECT</u>	<u>PROJECT NO.</u>	<u>LABORATORY</u>	<u>AMOUNT</u>	<u>TOTAL</u>
A-2 AIR BLAST EFFECTS				1305
a. Phenomenology				
01.01 High Altitude	RD 20 60	NOL	160	
01.03 Blast investigations	RD 20 60	NOL	60	
01.05 Dust laden air	RD 20 60	SRI	105	
01.06 Publications	RD 20 60	NOL	30	
b. Loading and response				
02.01 BRL shock tube	RD 20 60	BRL	135	
02.03 BRL shock tube	RD 20 60	BRL	135	
02.06 Prestressed concrete	RD 20 60	NCEL	50	
02.07 Behavior of columns	RD 20 60	MIT	60	
02.08 Strength of concrete	RD 20 60	MIT	40	
02.09 Structural loading	RD 20 60	DASA	50	
02.11 Vulnerability of closures	RD 20 60	DASA	25	
02.13 Tunnels and silos	RD 20 60	DASA	20	
02.16 Ground antennas	RD 20 60	DASA	25	
02.19 Missile vulnerability	RD 20 60	DASA	35	
02.21 Shock tube Q gage	RD 20 60	DASA	10	
02.22 Panel loading	RD 20 60	DTMB	100	
02.23 Loading device	RD 20 60	DASA	175	
02.27 Flying debris	RD 20 60	DASA	25	
02.31 Deep beams and slabs	RD 20 60	U/ILL	40	
02.33 Dynamic model response	RD 20 60	MIT	25	
A-3 UNDERWATER BLAST AND SHOCK EFFECTS				348
a. Phenomenology				
14.05 Hi gravity tank	RD 21 60	NOL	40	
14.20 Surface waves	RD 21 60	WES	60	
14.23 Underwater handbook	RD 21 60	NOL	42	
14.24 Underwater handbook	RD 21 60	DTMB	140	
b. Loading and response				
14.11 Damage prediction	RD 21 60	DASA	20	
14.15 Damage prediction methods	RD 21 60	DTMB	16	
14.16 Sonar performance	RD 21 60	NEL	30	
A-4 UNDERGROUND BLAST AND SHOCK EFFECTS				505
a. Phenomenology				
13.36 Underground shock manual	RD 22 60	DASA	92	
13.37 Stress propagation in soil	RD 22 60	SRI	50	
13.39 Soil structure gage	RD 22 60	WES	20	
13.41 Dynamic bearing of soils	RD 22 60	WES	25	

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b. Loading and response				
13.08 L & R of soil structure	RD 22 60	NCEL	180	
13.38 Test data correlation	RD 22 60	U/Penn	38	
13.40 Shock isolation	RD 22 60	U/Texas	100	
-5 THERMAL RADIATION				960
a. Effects on materials				
12.05 Hi temperature simulation	RD 30 50	QMB&E	30	
12.09 Effects on materials	RD 30 50	NML	155	
b. Ignition studies				
12.06 Thermal ignition	RD 30 50	NRDL	65	
c. Environmental & attenuation studies				
12.07 Atmospheric attenuation	RD 30 50	NRDL	70	
12.08 Atmospheric attenuation	RD 30 50	U/Mich	40	
d. X-Ray studies				
15.06 Thermal X-Ray	RD 30 50	NRL	600	
e. Weapons test instrumentation				
None			0	
A-6 NUCLEAR RADIATION				376
a. Shielding studies				
None			0	
b. Effects on materials				
6.04 Transient effects	RD 31 50	DOFL	100	
6.16 Transient effects	RD 31 50	Gen atomics	100	
c. Theoretical & experimental studies				
05.01 Induced activity in soils	RD 31 50	CWL	30	
05.02 Prediction system	RD 31 50	NRDL	46	
d. Weapons test instrumentation				
06.17 Surface barrier detectors	RD 31 50	Hughes	100	
A-7 ELECTROMAGNETIC EFFECTS				2000
a. Phenomenology				
07.14 Decay control	RD 32 60	DASA	500	
07.24 EM consultants	RD 32 60	DASA	50	

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b. Models and simulation				
07.08 Exosphere & ionosphere data	RD 32 60	DASA	300	
07.09 Electron loss	RD 32 60	DASA	100	
07.10 Critical cross section	RD 32 60	DASA	200	
07.11 Textbook	RD 32 60	DASA	100	
07.12 Decay simulation	RD 32 60	DASA	200	
07.13 Ionospheric disturbance	RD 32 60	DASA	500	
07.25 Computer program	RD 32 60	DASA	50	
c. Effects on electronic circuits				
None			0	
d. Weapons test instrumentation				
None			0	
-8 FALLOUT				180
a. Distribution of radioactive debris				
10.09 Crater dose rate	RD 33 60	CWL	50	
b. Model and theoretical studies				
10.03 Fractional KT fallout	RD 33 60	CWL	30	
10.13 Fallout data summary	RD 33 60	NRDL/CWL	100	
c. Weapons test instrumentation				
None			0	
A-9 MEDICAL ASPECTS OF BLAST INJURY				200
a. Mechanism of blast injury				
03.12 Blast biology	RD 40 60	Lovelace	200	
b. Prevention of blast injury				
None			0	
c. Mass casualty methods of treatment				
None			0	
A-10 MEDICAL ASPECTS OF THERMAL INJURY				300
a. Systemic effects thermal radiation				
03.31 Burn physiology	RD 41 51	NMFRL	60	
03.32 Burn toxin	RD 41 51	NIMC	50	
03.33 Burn toxin	RD 41 51	MCV	65	
03.34 Burn toxin	RD 41 51	NNMC	15	

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b. Protective clothing and skin None			0	
c. Oculo-visual effects				
03.01 Eye burn	RD 41 51	NML	50	
03.02 Eye burn	RD 41 51	MGV	10	
03.03 Eye burn	RD 41 51	SAM	50	
A-11 MEDICAL ASPECTS OF IONIZING RADIATION				635
a. Total body radiation				
03.08 Radiation effect and response	RD 42 52	WRAIR	40	
03.09 Whole body radiation	RD 42 52	U/Cinn	25	
03.10 Whole body radiation	RD 42 52	Sloan	43	
03.11 Whole body radiation	RD 42 52	Baylor	77	
03.35 Hazard evaluation	RD 42 52	NRDL	70	
b. Tissue dosimetry				
03.36 Dosimetry	RD 42 52	NMC	50	
c. Radiation sickness, prevention & treatment				
03.07 Spleen extract	RD 42 52	NMC	50	
d. Biological hazard of fallout				
03.37 Counter and dogs	RD 42 52	WRAIR	40	
03.43 Biomed program	RD 42 52	NRDL	240	
		TOTAL	6809	6809

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-7 ELECTROMAGNETIC EFFECTS				2700
a. Phenomenology				
07.02 Phenomenology	7811	AFSWC	505	
07.04 Energy partition	7811	AFSWC	165	
07.18 ARGUS phenomenology	7811	AFSWC	180	
07.20 Military implications	7811	AFSWC	100	
b. Models & simulation				
07.03 Basic processes	7811	AFSWC	100	
07.05 Effect on ionosphere	4618	AFCRC	600	
07.06 Chemical seeding	7673	AFCRC	500	
c. Effects on electronic circuits				
None			0	
d. Weapons test instrumentation				
07.07 Probe development		AFCRC	450	
07.19 Instrumentation	7811	AFSWC	100	
A-8 FALLOUT				0
None				
A-9 MEDICAL ASPECTS OF BLAST INJURY				0
None				
A-10 MEDICAL ASPECTS OF THERMAL INJURY				99
a. Systemic effects of thermal radiation				
None			0	
b. Protective clothing and skin				
None			0	
c. Oculo - visual effects				
03.06 Electro chemical filters	7757	NCR	99	
A-11 MEDICAL ASPECTS OF IONIZING RADIATION				300
a. Total body radiation				
None			0	
b. Tissue dosimetry				
None			0	

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