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Accession Number: BLDG-69-SHELF 6134B

File Code Number: 19-10-137

Division/Department/Group: ADMIN. BUSINESS SERVICES - ARCHIVES & RECORDS

Series Title: NUCLEAR TEST-RELATED RECORDS SURVEY

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OPERATIONS/TESTS	DATE	LOCATION	LRL
Operation TRINITY	July 16 1945	Alamogordo, NM (USA)	FRM
			(Archived)
HIROSHIMA/NAGASAKI	Aug 5, 6 1945	(Archived)	(Archived)
Operation CROSSROADS	June-July 1946	BIKINI	
*Able		Air	Visible
Baker [SF & Bremerton decom]		water	EE
Sinking ships off Bikini, Kwajalein, Hawaii			1946-1948
Operation SANDSTONE	Apr-May 1948	ENIWETOK	LASE
X-Ray		Tower	
Yoke		" "	
Zebra		" "	
scientific			
Operation RANGER	Jan-Feb 1951	NTS	LASE
Able		Air	
Baker		Air	
Easy		" "	
Baker-2		" "	
Fox		" "	
Operation GREENHOUSE	Apr-May 1951	ENIWETOK	
Dog		TOWER	
Easy		" "	
George [thermo exp./resp. to Joe]		" "	
Item [fission explosion efficiency]	" "	2x fallout of Japan	
Operation BUSTER-JANGLE	Oct-Nov 1951	NTS	LASE
Able		Tower	
Baker		Air	
Charlie		Air	
Dog Desert Rock I		Air	
Easy Desert Rock II		Air	
Sugar Desert Rock III		Surface	
Uncle		Underground	
Windstorm		Alutian Is., LRL	
Tactical nuc effects/equip.; psych. reactions; improved design.			
Operation TUMBLER-SNAPPER	Apr-June 1952	NTS	LASE
Able		AIR	
Baker		AIR	
Charlie		AIR	
Dog		AIR	

Easy	Tower
Fox	Tower
George	Tower
How	Tower

military sci.; chem & phys of at. exp.;
effects on env.; plants/animals; bridges.

Operation IVY	Nov 1952	ENIWETOK
Mike	thermonuclear device	Surface
King		Air

Operation UPSHOT-KNOTHOLE	Mar-June 1953	NTS	URKLAND
Annie		Tower	
Nancy		Tower	
Ruth* [sponsor=LRI]		Tower	
Dixie		Air	
Ray		Tower	
*Badger		" "	
*Simon		" "	
Encore		Air	
Harry		Tower	
Grable		Airburst	
Climax		Air	

tactical military strategy; damage eval; personnel protection; observation; effect on helicopters, crews.

Operation CASTLE	Spring 1954	ENEWETOK/BIKINI
*Bravo		Surface
*Romeo		Barge
Koon		Surface
Union		Barge
Yankee		" "
Nectar		" "

first test series in which LLNL provided a nuclear device for testing, detonated as Shot Koon.

Operation TEAPOT	Feb-May 1955	NTS
Wasp		Airdrop
Moth		Tower
Tesla		" "
Turk		" "
Hornet		" "
Bee		" "
Ess		Crater

Apple 1	1000' R
Vasp Prime	Surface
da	"
Post	Tower
Met	Lower
Apple 2	" "
Zucchini	" "

Effects of fire detonation; LRT set, causes,

Operation WIGWAM	May 1955	SW San Diego underwater 500 ft SW
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operation REDWING	May-July 1956	ENIWETOK/BIKINI
Lacrosse		Surface
Cherokee		Airdrop
Zuni		surface
Yuma		Tower
Erie		Tower
Seminole		Surface
Flathead		Barge
Blackfoot		Tower
Kickapoo		Tower
Osage		Airdrop
Inca		tower
Dakota		Barge
Mohawk		Tower
Apache		Barge
Navajo		Barge
Tewa		Barge
Huron		Barge

Operation REDWING	1956	ENIWETOK BIKINI
Lacrosse	May 1956	Surface
Cherokee		Airdrop
Zuni		Surface
Yuma		Tower
Erie		Tower
Seminole	June	Surface
Flathead		Barge
Blackfoot		Tower
Kickapoo		Tower
Osage		Airdrop
Inca		Tower
Dakota		Barge
Mohawk	July	Tower
Apache		Barge
Navajo		" "
*Tewa	July	Barge
Huron		" "

Operation FLUMED II - May-June 1957 LRLL & LRRL

Poitzenmann	May	Tower
Franklin	"	"
Lassen		Balloon
Wilson		Balloon
Priscilla		" "
Hood	July	" "
Diablo		Tower
John		Air to Air
Kepler		Tower
Owens		Balloon
Stokes	August	" "
Snasta		Tower
Doppler		Balloon
Franklin Prime		" "
Smoky		Tower
Galileo	September	" "
Wheeler		Balloon
Laplace		" "
Fizeau		Tower
Newton		Balloon
Rainier		Tunnel
Whitney		Tower
Charleston		Balloon
Morgan	October	" "

Operation HARDTACK I. Apr-Aug 1958 LENI

Wahoo		
Umbrella		
Teak		Johnston Is
Orange		Johnston Is

Operation ARGUS Aug-Sep 19 1958 45 degrees so. lat. LRLL

I	Rocket
II	" "
III	" "

theoretical test of LLNL theory of N. Christofilos that high-altitude nuclear detonation of proper yield would produce interference with communication and weapon performance.

Operation HARDTACK II. Sep-Oct 1958 PPG LASL & LRLL

Eddy	Sep	Balloon
Mora		" "
Tamalpais	Oct	Tunnel
Quay		Tower
Lea		Balloon
Hamilton		

LORAN
WEATHERLO
Kashmere
Sanford
Evans

Mazama
Humboldt
Blanca

Tower
Balloon
Tunnel

PROJECT 58 Safety Experiments 1955-1958

LLNL

Operation DOMINIC I, Apr-Nov 1962
Fishbowl

Operation DOMINIC II, July 1962 NTS "SUNBEAM"
* Little Feller II
Johnnie Boy
Small Boy
*Little Feller
Ivy Flats
Crockett

Nougat, Sterax

PLOWSHARE Program 1961-1973 NTS/CO,NM LRL
Gnome 10 Dec 1961 Shaft & LLNL
Sedan Jul 1962 Crater

ANNOUNCED NUCLEAR TESTS

SERIES	DATE (GCT)	LOCATION	TYPE OF BURST	YIELD (KILOTONS)	REMARKS
UNITED STATES TESTS					
Trinity	July 16, 1945	Alamogordo, N. M.	Tower	19	First nuclear detonation
World War II					
Little Boy	Aug. 5, 1945	Hiroshima, Japan	Air	12.5	First combat use
Fat Man	Aug. 9, 1945	Nagasaki, Japan	Air	22	Second combat use
Crossroads					Test of nuclear weapon effects on naval vessels
Able	June 30, 1946	Bikini Atoll	Air	Classified	
Baker	July 24, 1946	Bikini Atoll	Underwater	Classified	
Sandstone					First Commission test series
X-ray	Apr. 14, 1948	Eniwetok Atoll	Tower	37	
Yoke	Apr. 30, 1948	Eniwetok Atoll	Tower	49	
Zebra	May 14, 1948	Eniwetok Atoll	Tower	18	
Ranger					First tests held at Nevada test site
Able	Jan. 27, 1951	Nevada test site	Air	1	
Baker	Jan. 28, 1951	Nevada test site	Air	8	
Easy	Feb. 1, 1951	Nevada test site	Air	1	
Baker-2	Feb. 2, 1951	Nevada test site	Air	8	
Fox	Feb. 6, 1951	Nevada test site	Air	22	
Greenhouse					Demonstrated thermonuclear principles
Dog	Apr. 7, 1951	Eniwetok Atoll	Tower	Classified	
Easy	Apr. 20, 1951	Eniwetok Atoll	Tower	47	
George	May 8, 1951	Eniwetok Atoll	Tower	Classified	
Item	May 24, 1951	Eniwetok Atoll	Tower	Classified	
Buster-Jangle					Tests of improved device designs
Able	Oct. 22, 1951	Nevada test site	Tower	<0.1	
Baker	Oct. 28, 1951	Nevada test site	Air	3.5	
Charlie	Oct. 30, 1951	Nevada test site	Air	14	
Dog	Nov. 1, 1951	Nevada test site	Air	21	
Easy	Nov. 5, 1951	Nevada test site	Air	31	
Sugar	Nov. 19, 1951	Nevada test site	Surface	1.2	
Uncle	Nov. 29, 1951	Nevada test site	Underground	1.2	
Tumbler-Snapper					Tests of improved device designs
Able	Apr. 1, 1952	Nevada test site	Air	1	
Baker	Apr. 15, 1952	Nevada test site	Air	1	
Charlie	Apr. 22, 1952	Nevada test site	Air	31	
Dog	May 1, 1952	Nevada test site	Air	19	
Easy	May 7, 1952	Nevada test site	Tower	12	
Fox	May 25, 1952	Nevada test site	Tower	11	
George	June 1, 1952	Nevada test site	Tower	15	
How	June 5, 1952	Nevada test site	Tower	14	
Mike	Oct. 31, 1952	Eniwetok Atoll	Surface	10,400	
King	Nov. 15, 1952	Eniwetok Atoll	Air	Classified	First thermonuclear detonation
FOREIGN TESTS					
United Kingdom					
Hurricane	Oct. 3, 1952	Monte Bello Islands, Australia	Ship		Kiloton range
Viet Union					
Test No. 1	Aug. 29, 1949	U. S. S. R.	Air		
Test No. 2	Oct. 3, 1951 *	U. S. S. R.	Air		
Test No. 3	Oct. 22, 1951 *	U. S. S. R.	Air		

* Date of announcement; not necessarily date of detonation.