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OPERATIONS/TESTS	DATE	LOCATION	LRI
Operation TRINITY	July 16 1945	Alamogordo	NEP 10000 LRI 1  (Able) 10000
HIROSHIMA/NAGASAKI	Aug 5, 6 1945		10000000 10000000
Operation CROSSROADS	June-July 1946	BIKINI	
*Able		Air	1000000
*Baker* [SF & Bremerton decom]		Water	11
Sinking ships off Bikini, Kwajalein, Hawaiian,			10000-10000
Operation SANDSTONE	Apr-May 1948	ENIWETOK	LASI
x-Ray		Lower	
Yoke		" "	
Zebra		" "	
scientific			
Operation RANGER	Jan-Feb 1951	NTS	LASI
Able		Air	
Baker		Air	
Easy		"	
Baker-2		"	
Fox		"	
Operation GREENHOUSE	Apr-May 1951	ENIWETOK	
Dog		Lower	
Easy		" "	
George [thermo exp./resp. to Joe]		" "	
Item [fission explosion efficiency]		" "	2x fallout of Japan
Operation BUSTER-JANGLE	Oct-Nov 1951	NTS	LASI
Able		Lower	
Baker		Air	
Charlie		Air	
Dog Desert Rock I		Air	
Easy Desert Rock II		Air	
Sugar Desert Rock III		Surface	
Uncle		Underground	
windstorm		Aleutian Is.	LRI
Tactical nuc effects/equip. psych. reactions; improved design.			
Operation TUMBLER-SNAPPER	Apr-June 1952	NTS	LASI
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; bldgs.

Operation IVY	Nov 1952	ENEWETOK
Mike	thermonuclear device	Surface
King		Air

Operation UPSHOT-KNOTHOLE	Mar-June 1953	NTS	LRI/LANS
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	Tower
Vasp Prime	Airdrop
Ha	"
Post	Tower
Met	Lower
Apple 2	" "
Zucchini	" "

Effects of Aug detonation; LR det. gauges,

Operation WIGWAG	May 1955	SW San Diego underwater 500 M/ SW
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Operation REDWING	May-Jul 1955	ENIWETOK/BIKINI
Lacrosse		Surface
Cherokee		Airdrop
Zuni		surface
Yuma		Tower
Erie		lower
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 ELLUMINATE	November 1957	15	100-101-41-2
Boltzmann	May	Tower	
Franklin	June	" "	
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	.	LLNL
Wahoo			
Umbrella			
Teak		Johnston Is	
Orange		Johnston Is	

Operation ARGUS	Aug-Sep 19 1958	45 degrees so. lat.	LRLI
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 & LRLI
Eddy	Sep	Balloon	
Mora		" "	
Famalpais	Oct	Tunnel	
Quay		Tower	
Lea		Balloon	
Hamilton			

Lozen  
Wanget  
Kashmore  
Sanford  
Evans

Mazama  
Humboldt  
Bianca

Tower  
Balloon  
Tunnel

PROJECT 58 Safety Experiments 1955-1958

LRL

Operation DOMINIC I. Apr-Nov 1962  
Fishbowl

Operation DOMINIC II. July 1962 NTS "SUNBEAM"  
\* Little Feller II Surface  
Johnnie Boy Crater  
Small Boy Tower  
\*Little Feller Surface  
Ivy Flats  
Crockett

Nougat, Sterax

PLOWSHARE Program  
Gnome  
Sedan

1961-1973  
10 Dec 1961  
Jul 1962

NTS/CO.NM

Shaft  
Crater

LRL  
& LLNL

## 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					
Able	June 30, 1946	Bikini Atoll	Air	Classified	Test of nuclear weapon effects on naval vessels
Baker	July 24, 1946	Bikini Atoll	Underwater	Classified	
Sandstone					
X-ray	Apr. 14, 1948	Eniwetok Atoll	Tower	37	First Commission test series
Yoke	Apr. 30, 1948	Eniwetok Atoll	Tower	49	
Zebra	May 14, 1948	Eniwetok Atoll	Tower	18	
Ranger					
Able	Jan. 27, 1951	Nevada test site	Air	1	First tests held at Nevada test site
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					
Dog	Apr. 7, 1951	Eniwetok Atoll	Tower	Classified	Demonstrated thermonuclear principles
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					
Able	Oct. 22, 1951	Nevada test site	Tower	<0.1	Tests of improved device designs
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					
Able	Apr. 1, 1952	Nevada test site	Air	1	Tests of improved device designs
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					
King	Oct. 31, 1952	Eniwetok Atoll	Surface	10,400	First thermonuclear detonation
	Nov. 15, 1952	Eniwetok Atoll	Air	Classified	
FOREIGN TESTS					
United Kingdom					
Hurricane	Oct. 3, 1952	Monte Bello Islands, Australia	Ship		Kiloton range
Soviet 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.