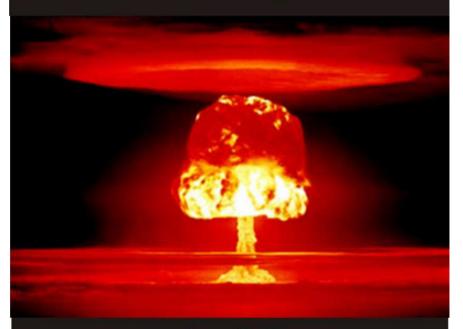
# A Catalogue of Nuclear Explosions On Stamps



Complied by Reverend John Walden MA, F.InstSMM, BYTVA, APS

# A Catalogue of Nuclear Explosions on Stamps

Catalogue Numbers are from either the © Stanley Gibbons Catalogue or © Scott



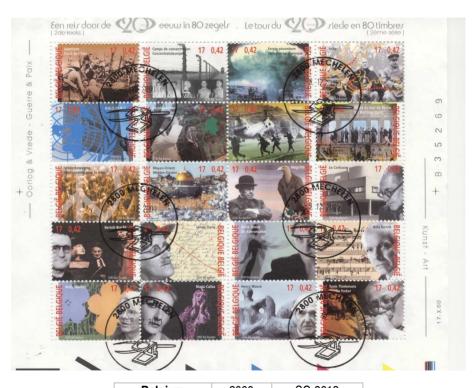
Aitutaki –	1980	SG 284-289
Cook Islands		

25<sup>th</sup> Anniversary of death of Albert Einstein Voted 'Man of the Century'



**Belgium** 1995 SG 3264-3265

Peace and Freedom 'Never Again'
This stamp from Belgium, part of the 1995 Europa issue, commemorated the 25th anniversary of the **Nuclear Non-Proliferation Treaty** and depicts an atomic mushroom cloud.



Belgium2000SG 3613The Twentieth Century (2nd Issue) War, Peace and Art



**Bulgaria** 1982 SG 3038

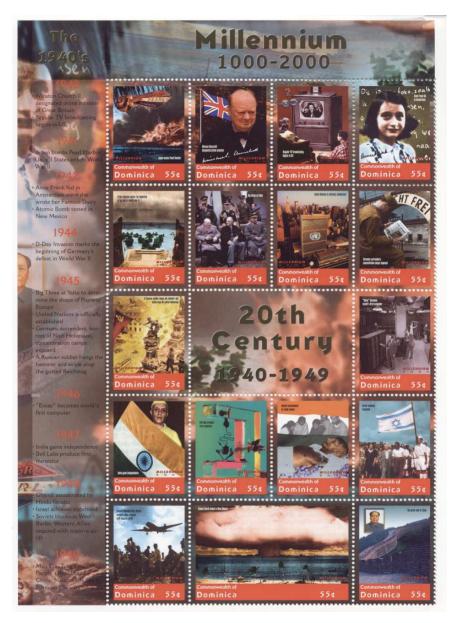
This 1982 issue from Bulgaria was issued to promote Nuclear Disarmament and depicts an Atomic Bomb mushroom cloud and globe.



Pre-stamped post card, used with Deng Xiao Ping postmark. China celebrates successful Test launching of Hydrogen Bomb,

Atom Bomb and satellite

# CONGO 1984 goes here



**Dominica** 1999 SG 2735



Ghana 1962 SG 284
The Accra Assembly commitment to disarmament



25<sup>th</sup> Anniversary of Assassination of John F Kennedy. Depicts the signing of the Test Ban Treaty in Moscow between USA, UK and USSR, 5<sup>th</sup> August 1963



Marshall Islands 1998 1073
The C20 'Decade of War and Peace'



Marshall Islands1996SG 721-72650th Anniversary of Operation Crossroads



Marshall Islands 1986 Scott C7

40<sup>th</sup> Anniversary of Operation Crossroads
This 1986 souvenir sheet from Marshall Islands (Scott #C7) was created to mark the 40th anniversary of **Operation Crossroads**, the atomic bomb tests conducted in the Pacific following World War II. The sheet contains an image of the "Shot Baker" explosion in July 1946, and the USS Saratoga, one of the target vessels sunk by the blast.



Marshall Islands1995SG 591Dropping of Atomic Bomb on Hiroshima



Marshall Islands1998SG 1073The Twentieth Century (5th Series) Decade of War and Peace



**Mexico** 1977 139 10<sup>th</sup> Anniversary of Treaty of Tlatelolco 1396



**Mexico** 1997 243 30<sup>th</sup> Anniversary of Treaty of Tlatelolco 2438

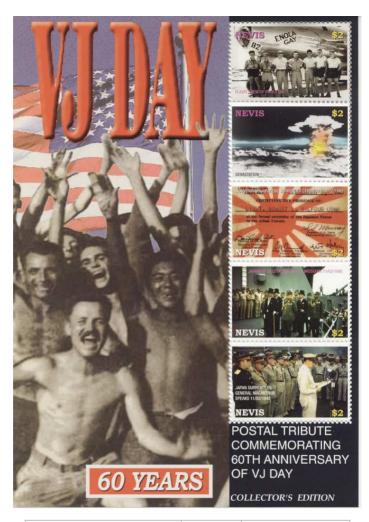
This 1997 issue from Mexico promted the Tlatelolco Treaty prohibiting nuclear weapons in Latin America and the Caribbean.

The stamp depicts an atomic mushroom cloud with the date "1967", and a tree with the date "1997".

Goth Anniversary (1945-2005)

Out Much Much Machine Medical Machine Medical Machine Ma

No details in SG 2006 Catalogue



Nevis

No details available in SG 2006 Catalogue



Nicaragua

1971

1765

Scientific Formulae - Einstein's Law



Nicaragua

No details in Stanley Gibbons 2006 Catalogue



Pakistan 1999

Pakistan joins the Nuclear Club of USA, UK, Russia (formally The Soviet Union), People's Republic of China,
France, Israel and neighbour India. (2006 – North Korea)

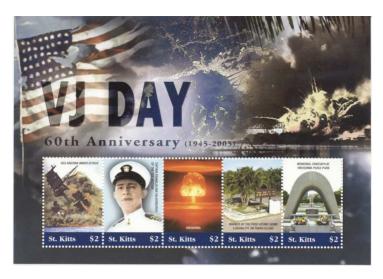


Penrhyn – Cook 1995 SG 514 Islands

50<sup>th</sup> Anniversary of End of Second World War



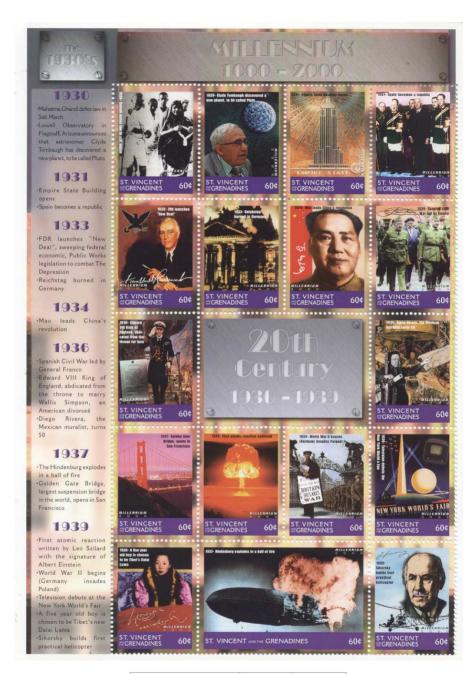
**Russia** 1998 SG 6795 Achievements of the 20<sup>th</sup> Century – Nuclear Energy



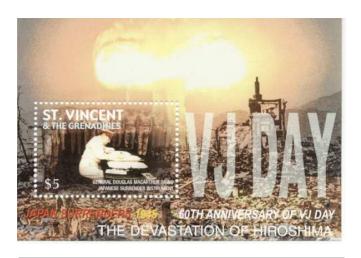
St Kitts 2005 821-825 60<sup>th</sup> Anniversary of Victory in Japan



St Vincent 2000 MS4697 Wars of the C20

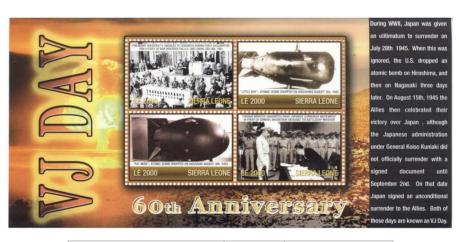


St Vincent



St Vincent 2005

No details in SG 2006 Catalogue



**Sierra Leone** 2005 MS4330 60<sup>th</sup> Anniversary of Victory in Japan



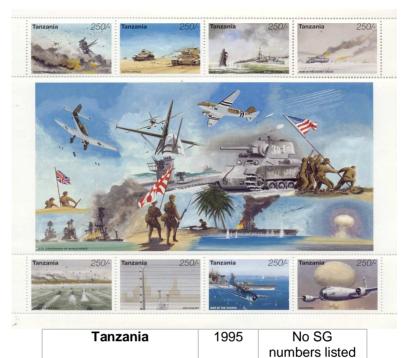
Tanzania	1995	SG not listed
		Scott 1351h

This 1995 issue from Tanzania was part of a set created to mark the 50th anniversary of the end of World War II. The stamp design features nuclear physicist Enrico Fermi, the mushroom cloud of an atomic bomb & the caption "A-Bomb Blasts Hiroshima (Enrico Fermi Worked to Produce First Chain Reaction)".



Tanzania	1996	SG not listed
		Scott 1500

This 1996 issue from Tanzania was part of a set created to mark the centenary of Radio. The stamp design features President Harry Truman, a radio, the mushroom cloud of an atomic bomb & the caption "Harry S Truman announces U.S. Drops Atomic Bomb".



50<sup>th</sup> Anniversary of End of Second World War



**Tonga** 1995 SG1323-1328 Scott 905-906

50<sup>th</sup> Anniversary of End of Second World War



The Gambia 2005

No details available in SG 2006 Catalogue



**Tuvalu** 1995 743 50<sup>th</sup> Anniversary of End of WWII



United Nations 1964 133

Cessation of Nuclear Testing





United Nations 1972 227(English) G23 (Geneva)

Non-proliferation of Nuclear Weapons



Upper Volta 1977 455
Nobel Prize Winners



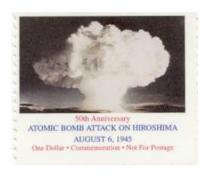
Venezuela1997SG 3346 - 335530th Anniversary of Tlateloloco TreatyPaintings by Alirio Rodriguez from his 'Hiroshima' sequence.



Vietnam 1967 SG N494

1st Chinese 'H' Bomb Test. Stamp shows Atomic Symbol and Gate of Heavenly Peace, Peking

# Cinderella's







Cinderella 1995

1994 President Clinton stopped a stamp design showing atomic blast over Hiroshima and so several 'Privateers' issued their own Cinderella labels



Cinderella 1994

This sheet of (20) privately-produced poster stamps/seals (c.a. 1994) was created in response to the U.S. government's decision to eliminate the Atom Bomb stamp from the "World War II - 1945" sheet.

The 1995 USPS issue was to have included one stamp depicting the explosion of an atomic bomb over Japan. In response to protests by the Japanese government and others, the Clinton Administration ordered the USPS to change that stamp to a different subject.

Each stamp on this sheet depicts the explosion of an atomic bomb, the text "Remember Pearl Harbor" and the dates of the attack on Pearl Harbour and the dropping of the Hiroshima bomb.

On the reverse side is text which (in part) complains that it has become "politically correct to forget why we dropped the Atom Bomb" and urging the purchaser to affix one of the seals to their outgoing letters.

# **British Nuclear Test Timeline**

The following is a list of events that contribute to the story of the British Nuclear Test Veterans

# **1940** April 10

The MAUD Committee formed. Headed by Sir Henry Tizard, this committee worked out the basic principles of both fission bomb design and uranium enrichment by gaseous diffusion. Britain was the first country to seriously study the feasibility of nuclear weapons.

# **1947** January 8

The decision to proceed with development and acquisition of atomic weapons is made by the secret GEN.163 Cabinet committee of six Ministers (headed by PM Attlee).

#### June

Design of the first weapon, a plutonium bomb, began at Fort Halstead in Kent under William Penney. His group, located in a secret enclave within the Armaments Research Establishment, was known simply as 'High Explosive Research' - HER.

# **1952** February 25

Windscale (now Sellafield) begins plutonium operation.

# September 15

The plutonium core for the first British nuclear device leaves England.

#### October 3

25 kiloton detonation aboard HMS Plym in Main Bay, close to Trimouille Island, one of the Monte Bello Islands, Australia. Test name 'Hurricane'. HMS Plym was mostly vapourised except for small scattered fragments of hot metal that set fire to the spinifex scrub covering Trimouille Island. William Penney is awarded a knighthood.

#### 1953 October 14

10 kiloton detonation on a 31 meter tower on Emu Field, Australia. Test name 'T1', part of "Totem" series.

#### October 26

8 kiloton detonation on a 31 meter tower on Emu Field, Australia. Test name 'T2', part of 'Totem' series.

1955 UK announces it's decision to develop a hydrogen bomb.

# 1956 May 16

15 kiloton detonation on a 31 meter tower on Tremouille Island, Monte Bello, Australia. Test name 'G1', part of the 'Mosaic' series.

#### June 19

56 kiloton detonation on a tower on Alpha Island, Monte Bello, Australia. Test name 'G2', part of the 'Mosaic' series.

# September 27

15 kiloton detonation on a 31 meter tower an Maralinga, Australia. Test name 'One Tree', part of the 'Buffalo' series.

#### October 4

1.5 kiloton detonation on the ground at Maralinga, Australia. Test name 'Marco', part of the 'Buffalo' series.

#### October 11

3 kiloton land airburst detonation at 150 meters at Maralinga, Australia. Test name 'Kite', part of the 'Buffalo' series.

#### October 22

10 kiloton detonation on a 31 meter tower at Maralinga, Australia. Test name 'Brekaway', part of the 'Buffalo' series.

# 1957 May 15

300 kiloton airburst detonation at 2200 meters over the ocean near Malden Island, Pacific Ocean. Test name 'Short Granite', part of the 'Grapple' series.

# May 31

720 kiloton airburst detonation 2400 meters over the ocean near Malden Island, Pacific Ocean. Test name 'Orange Herald', part of the 'Grapple' series.

#### **June 19**

200 kiloton air drop detonation 2400 meters over the ocean near Malden Island, Pacific Ocean. Test name 'Purple Granite', part of the 'Grapple' series.

# September 15

1 kiloton detonation on a 31 meter tower in Maralinga. Test name 'Tadje', part of the 'Antler' series.

# September 25

6 kiloton detonation on a 31 meter tower in Maralinga.

Test name 'Biak', part of the 'Antler' series.

#### October 9

25 kiloton balloon detonation 300 meters over Maralinga. Test name 'Taranaki', part of the 'Antler' series.

#### November 8

1.8 megaton air drop detonation 2200 meters above the ocean off Christmas Island. Test name 'Short Granite', 'Grapple X' test.

# 1958 April 28

3 megaton air drop detonation 2500 meters above the ocean off Christmas Island. Test name 'Grapple Y'.

# August 22

24 kiloton balloon detonation 450 meters above the ocean off Christmas Island. Test name 'Pennant', part of the 'Grapple Z' series.

# September 2

1 megaton air drop detonation 2800 meters above the ocean off Christmas Island. Test name 'Flagpole', part of the 'Grapple Z' series.

# September 11

800 kiloton air drop detonation 2600 meters above the ocean off Christmas Island. Test name 'Halliarda', part of the 'Grapple Z' series.

#### October 23

25 kiloton ballon detonation 450 meters above the ocean off Christmas Island. Test name 'Burgee', part of the 'Grapple Z' series.

Moratorium on atmospheric nuclear weapon tests announced

#### 1962 March 1

9.5 kiloton shaft detonation at Nevada Test Site. Test name 'Pampas', part of the 'Nougat' series. Joint US/UK test.

# **April 25 - July 11**

38 explosions up to 7.65 Megatons each, on an almost daily basis. "Weapons related Airdrops" which were as close as 10 miles south of Christmas Island. US test name 'Dominic', UK test name 'Brigadoon'.

# May 15

0 kiloton surface storage & transportation test at Nellis Air Force Range, Nevada, USA. Measured plutonium dispersal risk. Test name 'Double tracks', part of the 'Roller Coaster' test series.

Joint US/UK test.

# May 25

0 kiloton surface storage & transportation test at Nellis Air Force Range, Nevada, USA. Measured plutonium dispersal risk. Test name 'Clean Slate I', part of the 'Roller Coaster' test series. Joint US/UK test.

# May 31

0 kiloton surface storage & transportation test at Nellis Air Force Range, Nevada, USA. Measured plutonium dispersal risk. Test name 'Clean Slate II', part of the 'Roller Coaster' test series.

Joint US/UK test

#### June 9

0 kiloton surface storage & transportation test at Nellis Air Force Range, Nevada, USA. Measured plutonium dispersal risk. Test name 'Clean Slate III', part of the 'Roller Coaster' test series. Joint US/UK test.

# December 7

20 kiloton shaft detonation at Nevada Test Site. Test name 'Tendrac', part of the 'Storax' series. Joint US/UK test.

# 1964 July 17

20 kiloton shaft detonation at Nevada Test Site. Test name 'Cormorant', part of the 'Whetstone' series. Joint US/UK test.

# September 25

0 kiloton shaft detonation at Nevada Test Site. Test name 'Courser', part of the 'Whetstone' series. Joint US/UK test.

# **1965** September 10

200 kiloton shaft detonation at Nevada Test Site.

Test name 'Charcoal', part of the 'Flintlock' series. Joint US/UK test.

1967 Clean-up of Maralinga and Emu test sites – Operation Brumby - commences.

# 1974 May 23

200 kiloton shaft detonation at Nevada Test Site. Test name 'Fallon', part of the 'Arbor' series. Joint US/UK test.

# 1976 August 26

150 kiloton shaft detonation at Nevada Test Site. Test name 'Banon', part of the 'Anvil' series. Joint US/UK test.

# 1978 April 11

150 kiloton shaft detonation at Nevada Test Site. Test name 'Fondutta',

part of the 'Cresset' series. Joint US/UK test.

#### November 18

150 kiloton shaft detonation at Nevada Test Site. Test name 'Quargel', part of the 'Quicksilver' series. Joint US/UK test.

# 1979 August 29

150 kiloton shaft detonation at Nevada Test Site. Test name 'Nessel', part of the 'Quicksilver' series. Joint US/UK test.

# **1980** April 26

150 kiloton shaft detonation at Nevada Test Site. Test name 'Colwick', part of the 'Tinderbox' series. Joint US/UK test.

#### October 24

20 kiloton shaft detonation at Nevada Test Site. Test name 'Dutchess', part of the 'Guardian' series. Joint US/UK test.

#### December 17

150 kiloton shaft detonation at Nevada Test Site. Test name 'Serpa', part of the 'Guardian' series. Joint US/UK test.

#### **1981** November 12

150 kiloton shaft detonation at Nevada Test Site. Test name 'Rousanne', part of the 'Praetorian' series. Joint US/UK test.

# **1982** April 25

150 kiloton shaft detonation at Nevada Test Site. Test name 'Gibne', part of the 'Praetorian' series. Joint US/UK test.

# 1983 April 22

20 kiloton shaft detonation at Nevada Test Site. Test name 'Armada', part of the 'Phalanx' series. Joint US/UK test.

# May

The formation of the British Nuclear Test Veterans Association.

# 1984 May 1

150 kiloton shaft detonation at Nevada Test Site. Test name 'Mundo', part of the 'Fusileer' series. Joint US/UK test.

#### December 9

150 kiloton shaft detonation at Nevada Test Site. Test name 'Egmont', part of the 'Grenadier' series. Joint US/UK test.

# **1985** December **5**

150 kiloton shaft detonation at Nevada Test Site. Test name 'Kinibito'.

part of the 'Charioteer' series. Joint US/UK test.

#### 1986 June 25

150 kiloton shaft detonation at Nevada Test Site. Test name 'Darwin', part of the 'Charioteer' series. Joint US/UK test.

# 1987 July 16

150 kiloton shaft detonation at Nevada Test Site. Test name 'Midland', part of the 'Musketeer' series. Joint US/UK test.

#### **1989 December 18**

150 kiloton shaft detonation at Nevada Test Site. Test name 'Barnwell', part of the 'Aqueduct' series. Joint US/UK test.

# **1990** November 14

150 kiloton shaft detonation at Nevada Test Site. Test name 'Houston', part of the 'Sculpin' series. Joint US/UK test.

# **1991** November 26

20 kiloton shaft detonation at Nevada Test Site. Test name 'Bristol', part of the 'Julin' series. Joint US/UK test.

# Nuclear Weapons – Who has got what?

#### The United States

More than 5,000 strategic warheads (powerful bombs to be fired long distances), and more than 1,000 operational tactical weapons (less powerful, and meant for more close-range battlefield use)

Approximately 3,000 reserve warheads.

#### Russia

Nearly 5,000 strategic warheads, and approximately 3,500 operational tactical warheads. More than 11,000 other warheads in storage. Exploded its first bomb in 1949.

#### France

Approximately 350 strategic warheads. Exploded its first bomb in 1960.

#### China

As many as 250 strategic warheads and 150 tactical warheads. Exploded its first bomb in 1964.

#### **Britain**

About 200 strategic warheads. Exploded its first bomb in 1952.

# India

Between 45 and 95 nuclear warheads. Exploded its first bomb in 1974.

# **Pakistan**

Between 30 and 50 nuclear warheads. Exploded its first bomb in 1998.

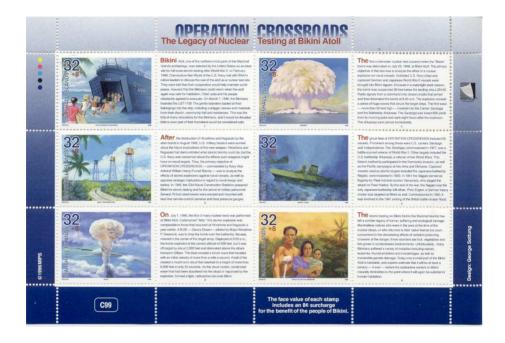
# Israel

Refuses to confirm that it has nuclear weapons, but is generally assumed to have up to 200 nuclear warheads. Unknown when it may have carried out a test explosion.

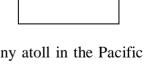
# **North Korea**

Believed to have enough nuclear material for about half-a-dozen weapons, but estimates vary widely and are unverifiable.

# **Operation Crossroads**



Bob Hope was right! He said: "As soon as the war ended, we located the one spot on earth that hadn't been touched by the war and blew it to hell."



On 7<sup>th</sup> March 1946 the total inhabitants of a tiny atoll in the Pacific began an epic journey – into evacuation.

These postage stamps issued by the Marshall Islands in 1996 commemorated the  $50^{th}$  Anniversary of the evacuation of Bikini Atoll so that the USA could experiment with atom bombs.

And so on 7<sup>th</sup> March 1946 the total inhabitants of a tiny atoll in the Pacific began an epic journey – into evacuation.

It began with President Truman's directive of December 1945, which stated: (Nuclear Weapons Tests will take place) "...to determine the effect of atomic bombs on American warships." So began a joint Army and Navy joint task force. Because of its isolated location away from all major air and shipping routes (*Two thousand miles southwest of Hawaii and 250 miles north of Kwajalein island*), Bikini Atoll was chosen although it was lightly inhabited.

The Marshall Island group has had an unsettled history. A German trading company had an outpost in 1885, and Japan conquered and occupied in WWI and treated the indigenous population harshly, and the United States invaded in 1944 and then administered the group as a Trust Territory and finally a Republic was established in 1979 with a 'Compact of Free Association' with USA signed in 1986. And so – Bob Hope wasn't entirely accurate! And so it was a Sunday in February 1946 that Commodore Ben Wyatt (Military Governor) went to Bikini to meet with the assembled

Wyatt (Military Governor) went to Bikini to meet with the assembled inhabitants after a church service. He asked them to abandon their homes and land and way of life 'temporarily' so that USA could test atomic bombs "For the good of mankind." King Juda and the people were confused and distressed as they discussed this proposal. After a full discussion the King told Wyatt, "We will go believing that everything is in the hands of God." In March 1946 all 167 inhabitants

of Bikini were transported on a Navy LST to Rongerik Atoll, which is 125 miles east. There is a long story about Rongerik which cannot be told here. They were given food for just a few weeks and they soon found out that coconut trees and local crops yielded little fruit. It was too late to go home as over 42,000 military and civilian personnel had swamped Bikini to prepare



for Operation Crossroads. In the years to come the Bikini people

were relocated several times.

Vice Admiral William P Blandy was appointed Commander of Operation Crossroads. He tried to pacify the concerns of many: "The bomb will not start a chain reaction in the water, converting it all to gas and letting all the ships on all the oceans drop down to the bottom. It will not blow out the bottom of the sea and let all the water run down the hole. It will not destroy gravity. I am not an atomic playboy." [picture: Admiral W.H.P. "Spike" Blandy,



Mrs. Blandy and Rear Admiral F.J. Lowry celebrate the end of



Operation Crossroads in November of 1946 in Washington, D.C. This photograph, entitled "Atomic Age Angel Food," drew heavy criticism from throughout the nation and from around the world.]

The atoll was prepared with various measurement devices including 70 feet high towers together with an assembled fleet of old war ships, which included an aircraft carrier, captured Japanese warship and some concrete barges. Animals were secured in various places to further test the effects of the atomic explosion.

A B-29 called 'Dave's Dream' adorned with a Rita Haworth picture from 509 Wing and piloted by Gen (Ret) Woodrow P. Swancutt, Pilot (then a Major) [But this is now disputed and Roswell Deputy Base Commander Lt. Col. Payne Jennings is claimed to be Pilot].

The plane dropped a 'Fat Man' bomb on 1<sup>st</sup> July 1946. The bomb run was made at 28,000 feet and was detonated forty-eight seconds later 518 feet over the lagoon's surface. It had the explosive energy of



23,000 tons of TNT. The surface temperature of the fireball was over 1,000,000 degrees Fahrenheit, hotter than the surface of the sun. The operation went smoothly except that the bomb missed the target area by 2000 ft. Instead of exploding over the battleship *Nevada*, the bomb went off almost directly over the

aircraft carrier *Independence.* Of the 95 vessels assembled to he tested for fallout. most were too badly contaminated or had damage that sunk them. There is now thriving diving





business to view the wrecks at Bikini Atoll. Quad 21 inch torpedoes from USS Lamson



at the bottom of Bikini Atoll can be seen on each dive.

The first bomb was named 'Able' and the second was an underground test named 'Baker' and detonated on 25<sup>th</sup> July. This caused considerable damage to the test moored ships. The atomic testing involving 23 tests on Bikini has left a sombre legacy of human

suffering and extensive ecological damage. There is a claim that the US authorities deliberately exposed some native islanders to radiation. Subsequent illnesses of islanders include cancers, leukaemia, thyroid problems and miscarriages.



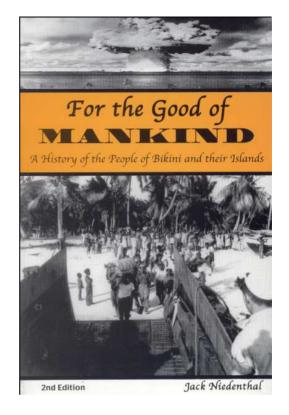
Grandchildren have been born with horrendous abnormalities. Development ofinfrastructure to support the clean up and resettlement Bikini programs on Atoll started early in calendar vear 1991. The program was

concentrated at Eneu Island, which had been declared safe for habitation, and is the main support base for the clean-up activities. In 1998, cleanup activities began on Bikini island with a 300 acre land clearing project. In 1999, however, because of the adoption by the Nuclear Claims Tribunal of the 15 millirem EPA radiological cleanup standard in December of 1998, the cleanup of Bikini was put on hold pending further funding from the U.S. government. The reason for this is that the new standards caused a dramatic rise in the overall cost for the radiological cleanup, money which the Bikinians just do not have.

The Bikinians began a class action and a USA Tribunal was convened and after many years a settlement was reached. On March 5, 2001, the **Nuclear Claims Tribunal** handed down a decision on a seven year lawsuit the Bikinians had brought against the United States for damages done to their islands and their people during the nuclear testing on Bikini. The Tribunal gave them a total award of \$563,315,500.00 [loss of value \$278,000,000.00, restoration costs \$251,500,000.00, suffering and hardship \$33,814,500.00], which is the final amount after deducting the past compensation awarded by the U.S. government. The problem is that the Nuclear Claims Tribunal, which was created by the Compact of Free Association of

1986, was under funded and does not have the money to pay for this claim. It is now up to the people of Bikini to petition the U.S. Congress for the money to fulfil this award. This is expected to take many years and it is uncertain if the United States will honour their claim. So far, as in UK, there is little sign that promises will be honoured.

At this time the people of Bikini remain scattered throughout the Marshall Islands and the world, as they still wait (60 yrs) for the



cleanup of Bikini to begin in earnest, mostly due to the fact that the money they have received from the U.S. government is not adequate to fund a full radiological cleanup of the entire atoll.

# NOW - You can read the book - ISBN 982-9050-02-5

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# The Author

John Walden MA, F.InstSMM, APS is a nuclear veteran. John was sent to Maralinga Australia in 1957 to participate in the 'Antler' series of nuclear tests. He was with the Royal Air Force Balloon Unit and tasks included man-handling the atom bomb. John did receive an overdose of radiation. John has been a philatelist for 60 years and lives in Norwich.





The British Nuclear Tests Veterans Association is not an anti-nuclear or an anti-war association. It is a non-profit voluntary Association supporting past and present United Kingdom Nuclear Test Combined Services Veterans and their families

www.bntva.com