

End of WORLD WAR II

- Yalta Conference Feb. 1945



WORLD WAR II

- Met to discuss post war Europe
- Reestablished Poland borders
- Russia agreed to enter war in Pacific
- Some thought Roosevelt appeased Stalin

WORLD WAR II

- Roosevelt was extremely ill

End of World War II

- Germany divided into 4 sectors
- United States, France, Great Britain, USSR
- Berlin in Russian Sector also divided into 4 sectors



End of WORLD WAR II

- United Nations was set up
- Stalin and Russia given influence over Eastern Europe countries
- Prevent another invasion from Western Europe

End of WORLD WAR II

- Stalin promised to hold elections in occupied countries under Russia influence
- Never happened

End of WORLD WAR II

- Some thought Roosevelt appeased Stalin
- Roosevelt wanted to keep alliances together after War was over.

End of WORLD WAR II

- On April 12, 1945
- In Warm Springs Georgia
- FDR while sitting to have his portrait completed
- “ I have a headache”

End of WORLD WAR II

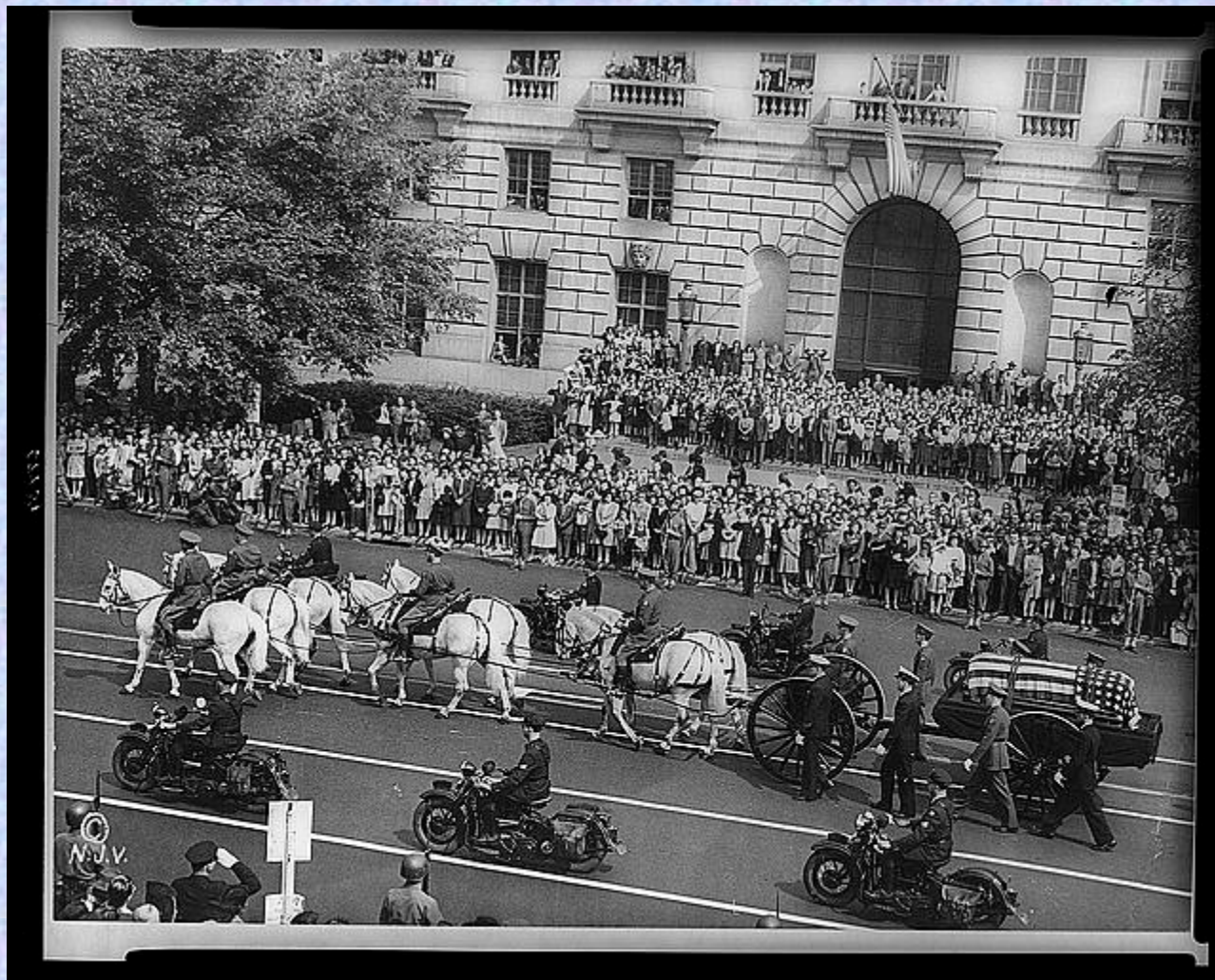
- Suffered a cerebral hemorrhage
- Died April 12, 1945



May 7, 1945 Nazi Germany Surrenders in World War II



End of WORLD WAR II



Potsdam Conference:

July, 1945

- ☒ FDR dead, Churchill out of office as Prime Minister during conference.
- ☒ Stalin only original.
- ☒ The United States has the A-bomb.
- ☒ Allies agree Germany is to be divided into occupation zones
- ☒ Poland moved around to suit the Soviets.



P.M. Clement
Attlee

President
Truman

Joseph
Stalin

End of WORLD WAR II

- Harry S Truman



Manhattan Project

- 1939 Einstein Letter to FDR: Powers of atomic technology
- 1941 FDR agreed to allow project to begin
- Based in several universities: Columbia, Univ. of Chicago, Univ. of California at Berkeley

- 1st controlled nuclear reaction under squash court of University of Chicago

End of WORLD WAR II

- Manhattan Project
- Building and testing of Atomic Bomb



Manhattan Project

- General Groves
- J.Robert Oppenheimer

Manhattan Project

- At least 10 sites which include warehouses that held uranium
- Labs that split the atom
- First headquarters in a skyscraper across from City Hall in NY

Mahattan Project

- Columbia University instrumental in work to work with atoms
- Football team recruited to move tons of uranium
- 1,200 tons of high-grade uranium ore was stored on Staten Island
- Woolworth building : 11th, 12th and 14th floors used for research

Manhattan Project

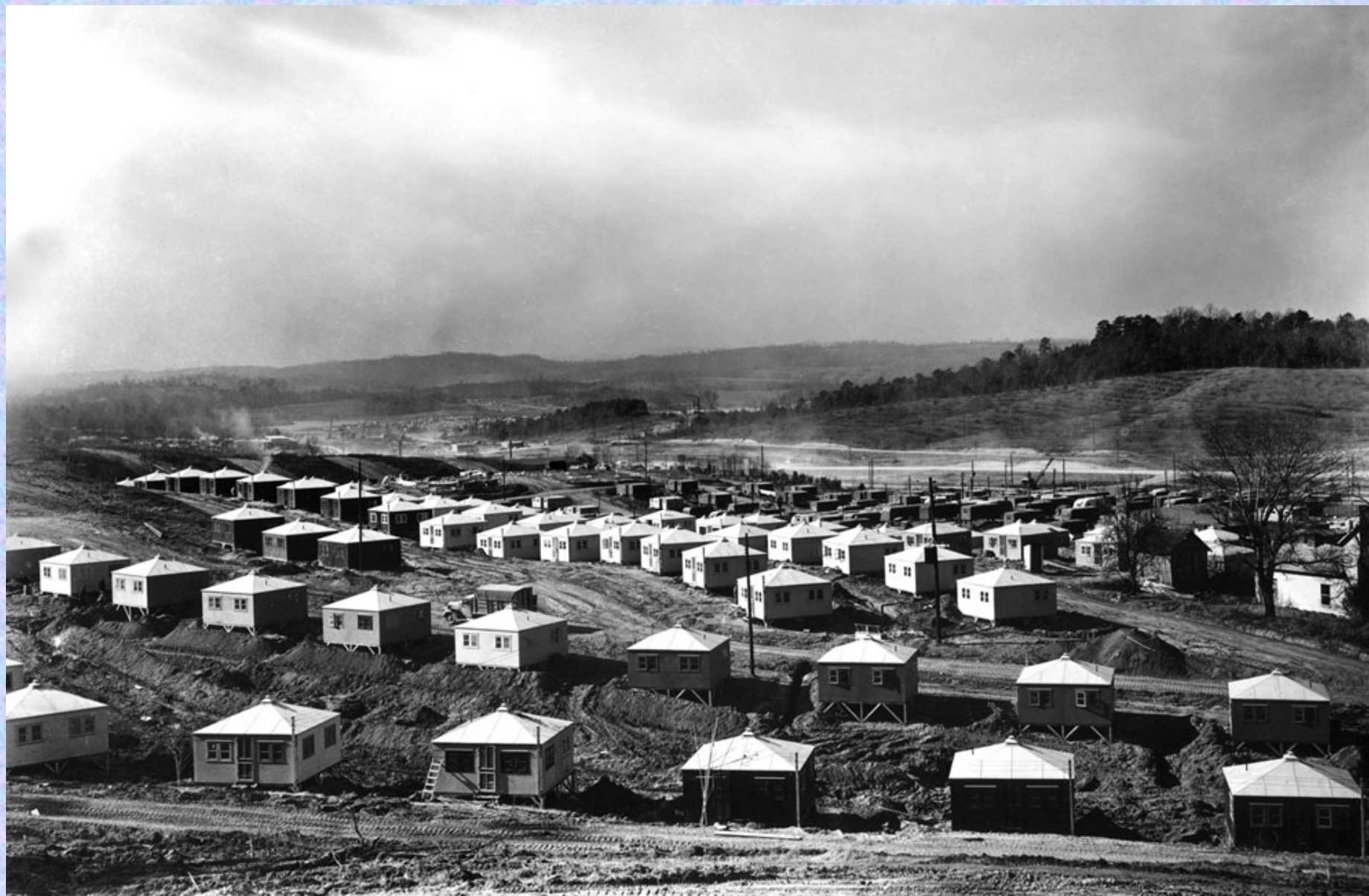
- Name given by Army Corps of Engineers when assigned the bomb and put headquarters in building in Manhattan
- By 1943 headquarters moved to Oak Ridge Tenn.
- By 1945 40 labs and over 200,000 people

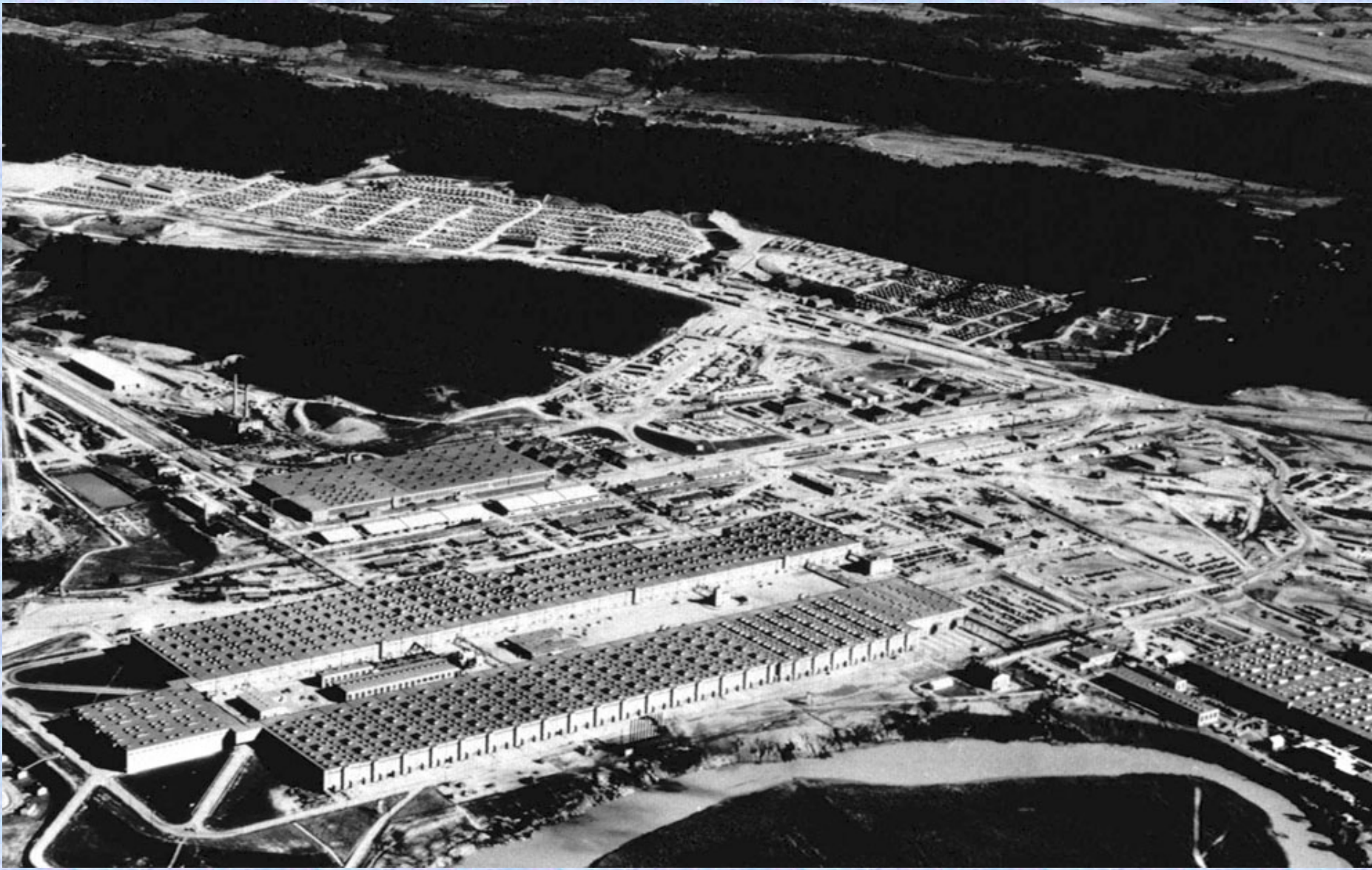
Manhattan Project

- Secret City
- *Oak Ridge grew within a matter of months to the fifth largest city in Tennessee*
- *A city that required special badges to be worn by all inhabitants, even children.*
- *840 buses brought people to work here and took them home. The city operated twenty-four hours a day.*

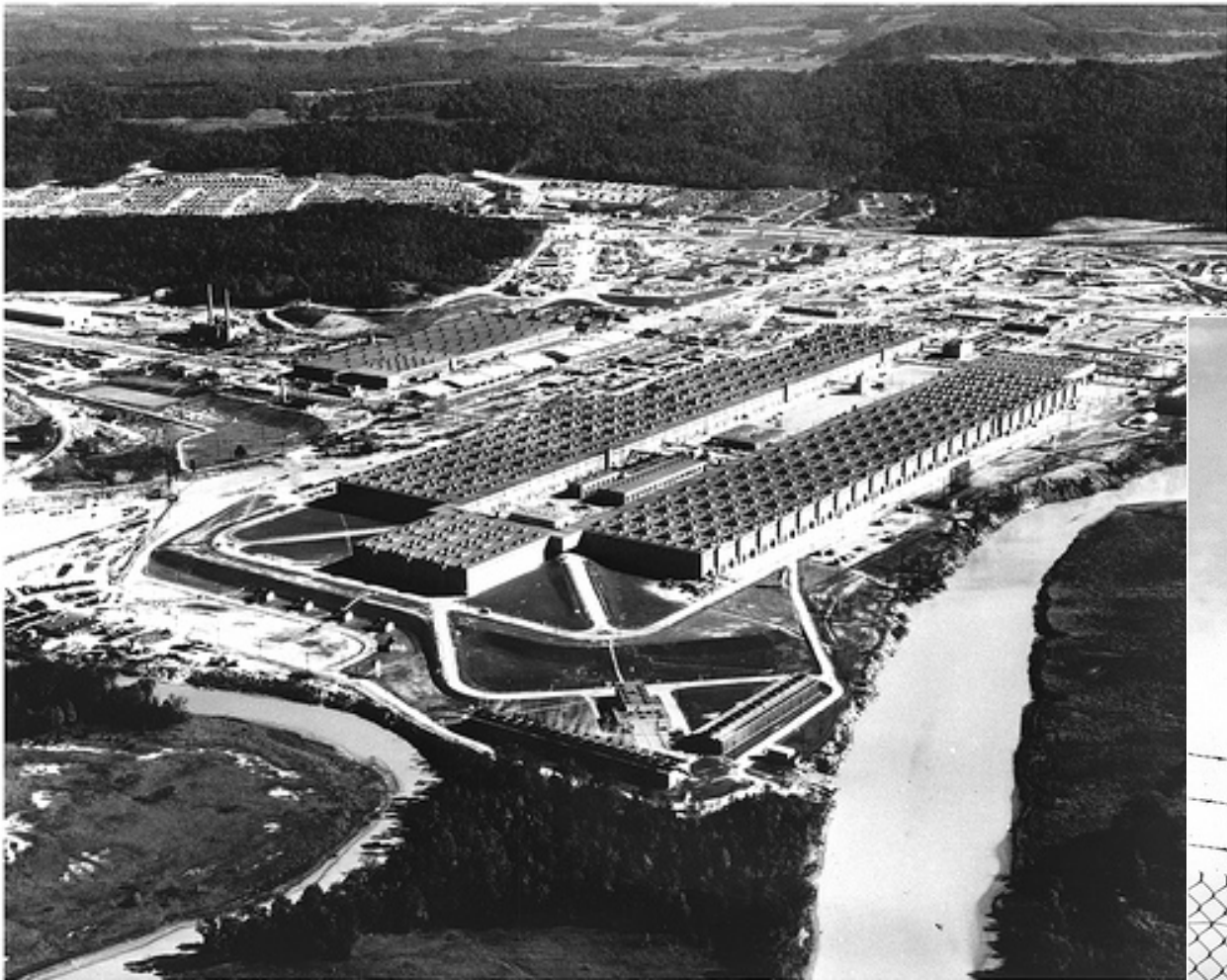






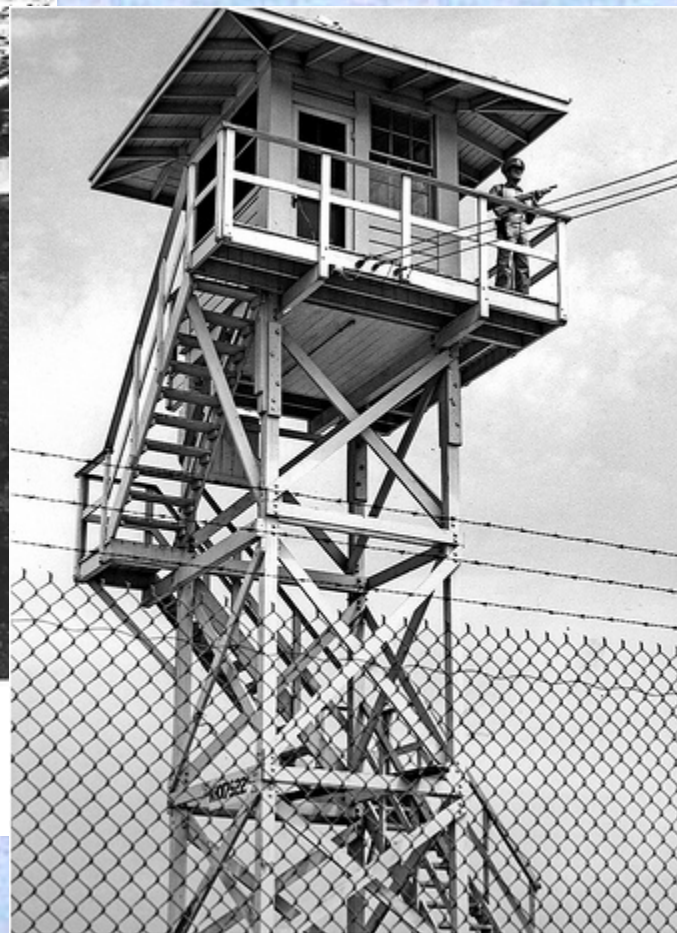


- Today, Oak Ridge is the home to the Y-12 National Security Complex and the Oak Ridge National Laboratory - two of the top scientific establishments in the world



An arial view of the now-decomissioned K-25 Gaseous Diffusion plant.
The main building measured half a mile by 1,000 feet.

*Photo by James E. Westcott, Official US Army Photographer for the Manhattan Project
American Museum of Science and Energy • www.amse.org*



A guard tower overlooking the secret city of Oak Ridge.

*Photo by James E. Westcott, Official US Army Photographer for the Manhattan Project
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Security search at the Elza Gate entrance to Oak Ridge.

Photo by James E. Westcott, Official US Army Photographer for the Manhattan Project
American Museum of Science and Energy • www.amse.org

Los Alamos

- Everyone's address in Los Alamos was a post office box in Santa Fe.
- but most of the scientists' addresses were P.O. Box 1663.
- Because of that there are some strange things that happened. If you were born here during the war, your birth certificate said that you were born in Box 1663! It was the same if you got married up here then – you were married in P.O. Box 1663.
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End of WORLD WAR II

- Robert Oppenheimer
- Developed project in complete secrecy
- Vice-President Truman did not know of project

End of WORLD WAR II

- Bomb was tested July 16, 1945 in New Mexico
- Test was successful



End of WORLD WAR II

- Decision to drop bomb:
- Next step in Pacific was invasion of Japan
- Truman and military leaders feared Japan would fight to last man, woman and child

End of WORLD WAR II

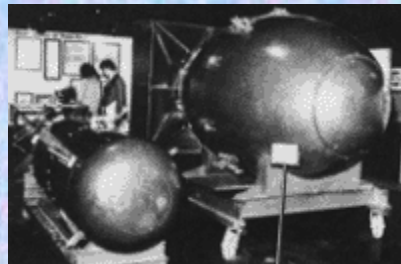
- Soviets were to enter into war in Pacific 3 months after surrender of Germany
- Stalin stalled on entering war

End of WORLD WAR II

- 3 paths Truman considered
 - drop the bomb over Pacific to Japanese what they could expect
 - Invade Japan
 - Drop bomb on Japan

End of WORLD WAR II

- Decided to drop Atomic bomb on Japan
- August 6, 1945
- Fat Man and Little Boy



- While Little Boy was a uranium gun-type device
 - Little Boy was the first nuclear weapon used in warfare. It exploded approximately 1,800 feet over Hiroshima, Japan, on the morning of August 6, 1945, with a force equal to 13,000 tons of TNT.
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- Fat Man was a more complicated and powerful plutonium implosion weapon that exploded

End of WORLD WAR II

- Enola Gay



Hiroshima

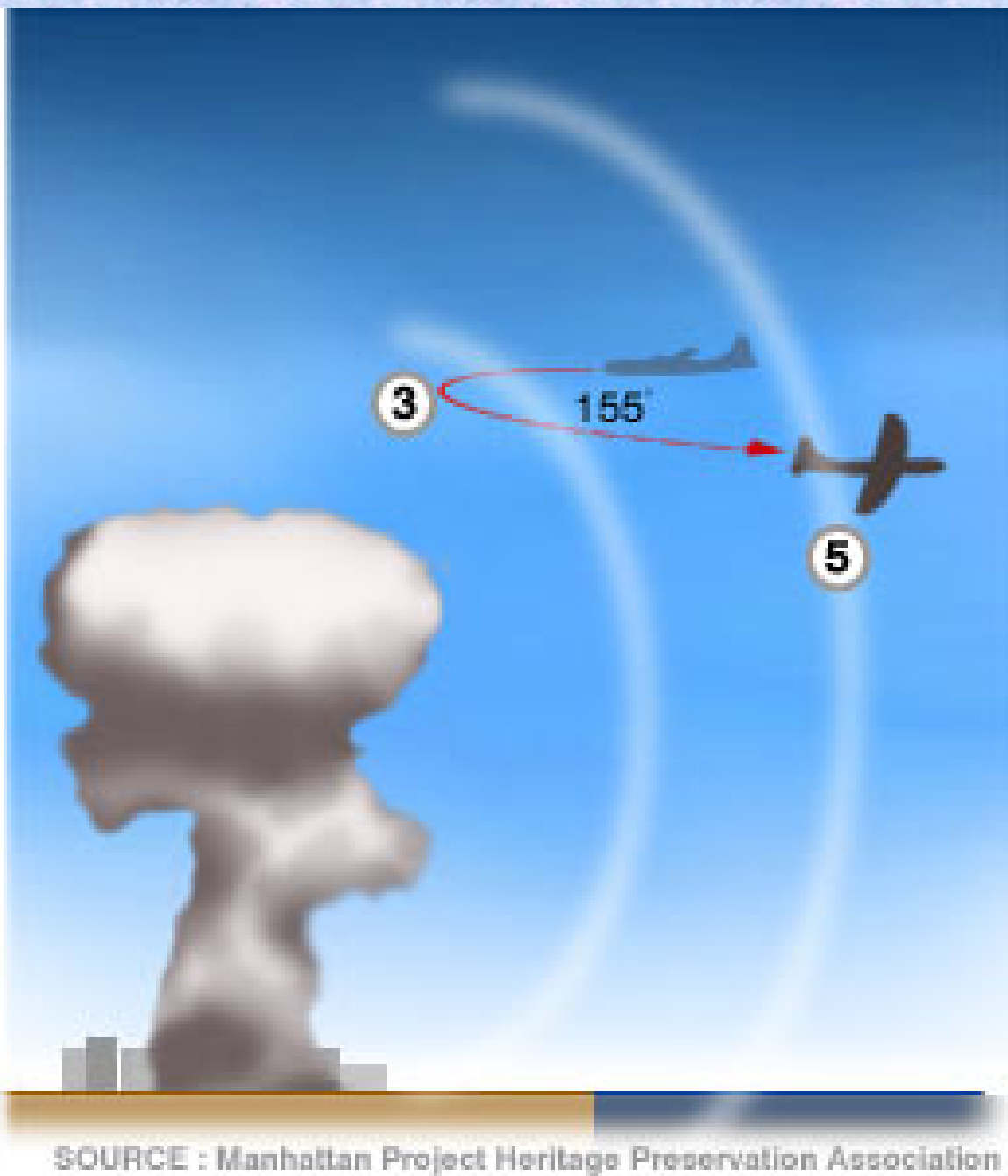
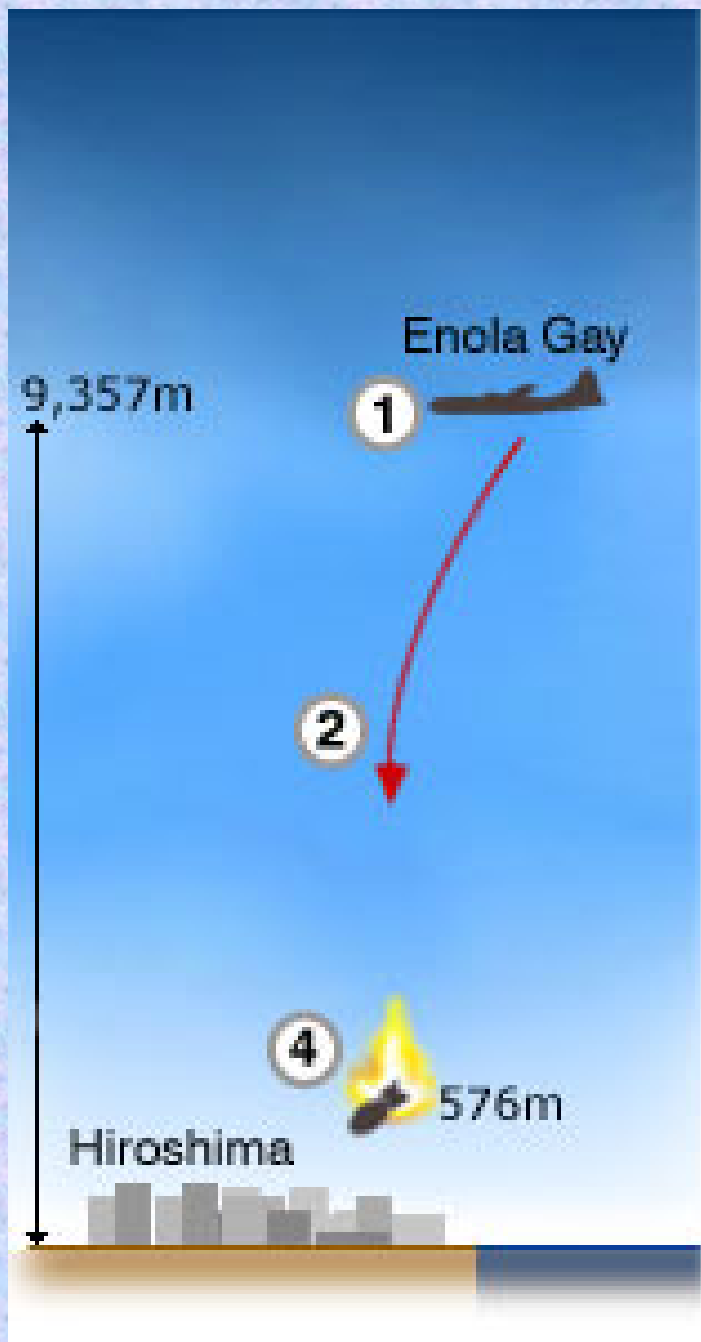


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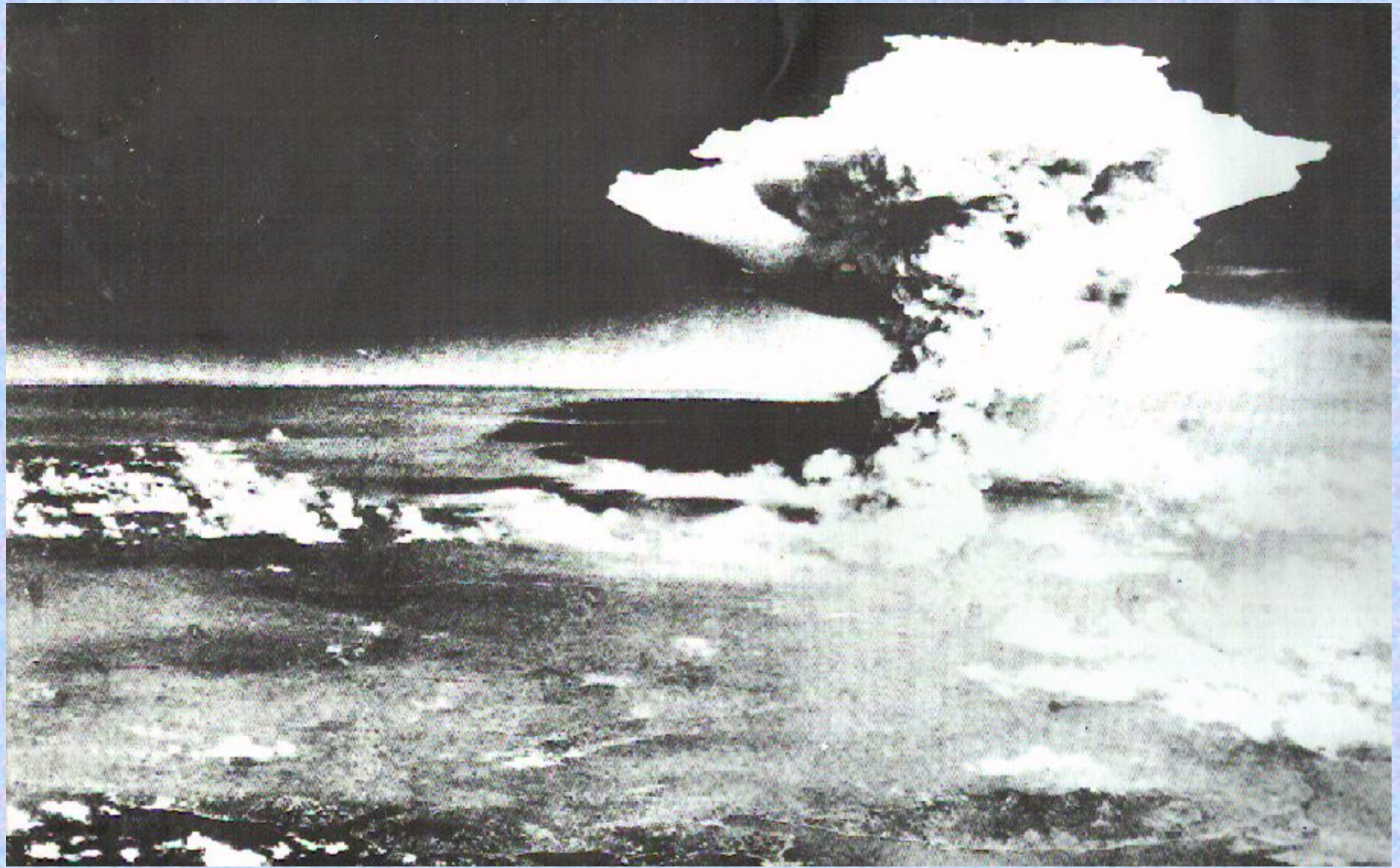
- August 6, 1945
- Hiroshima



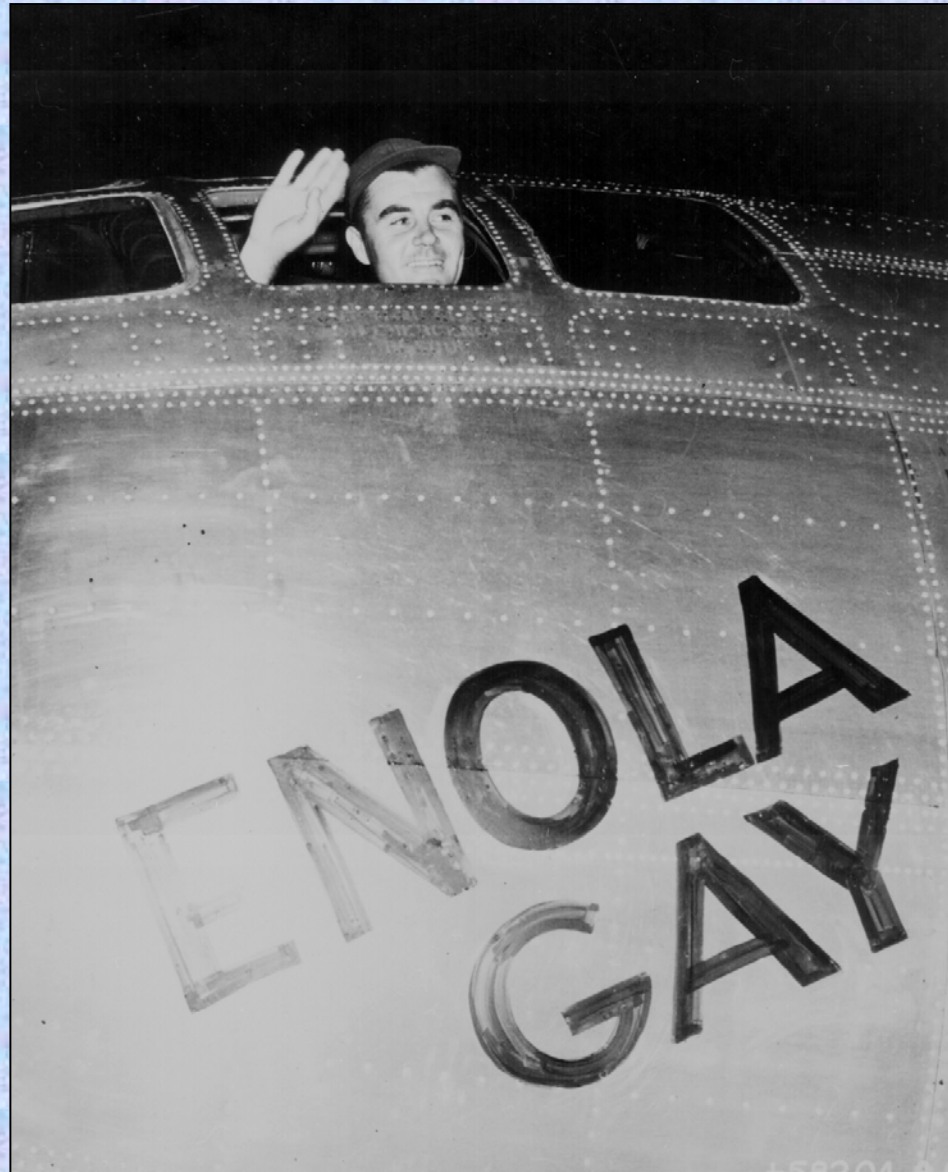
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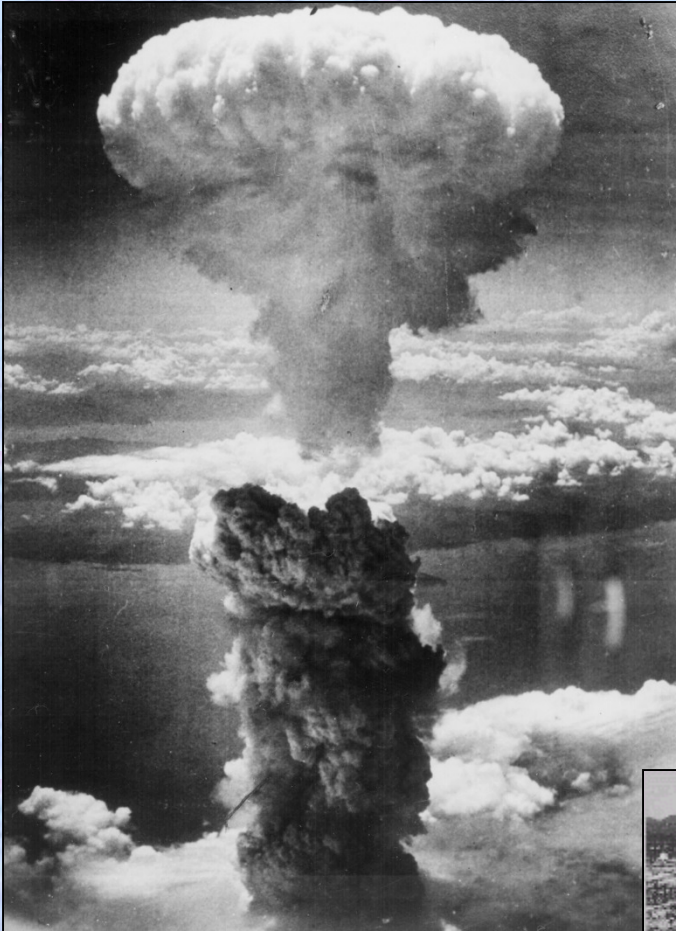
SOURCE : Manhattan Project Heritage Preservation Association



Col. Paul Tibbets & the A-Bomb



Hiroshima - August 6, 1945



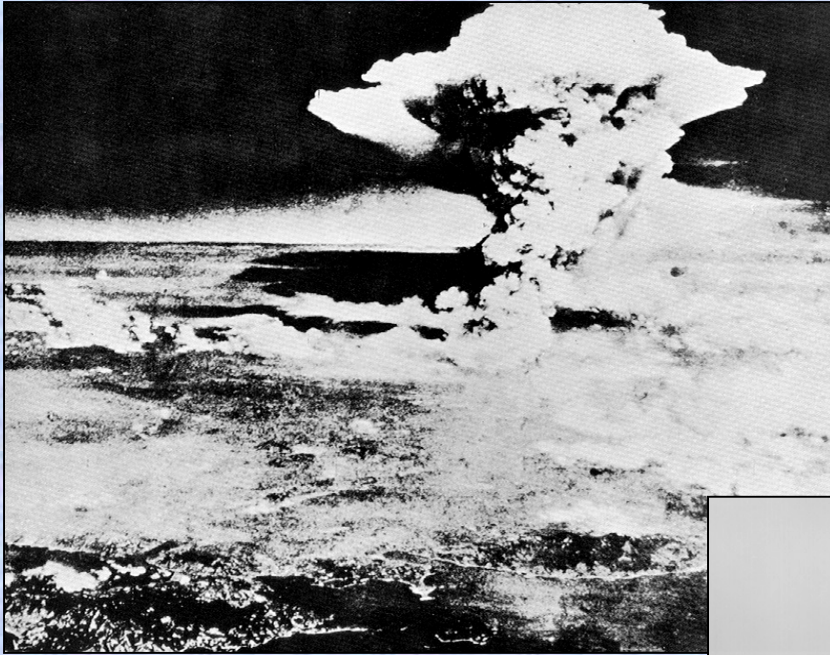
- © 70,000 killed immediately.
- © 48,000 buildings destroyed.
- © 100,000s died of radiation poisoning & cancer later.



The Beginning of the Atomic Age



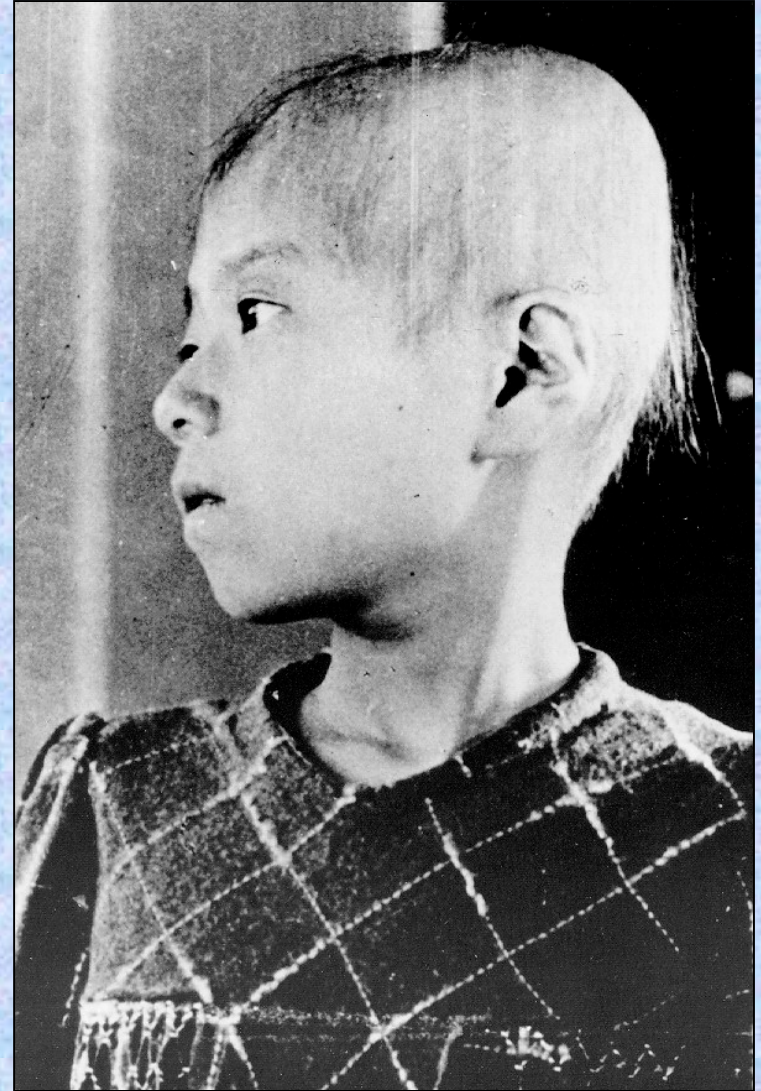
Nagasaki - August 9, 1945



- © 40,000 killed immediately.
- © 60,000 injured.
- © 100,000s died of radiation poisoning & cancer later.



Japanese A-Bomb Survivors

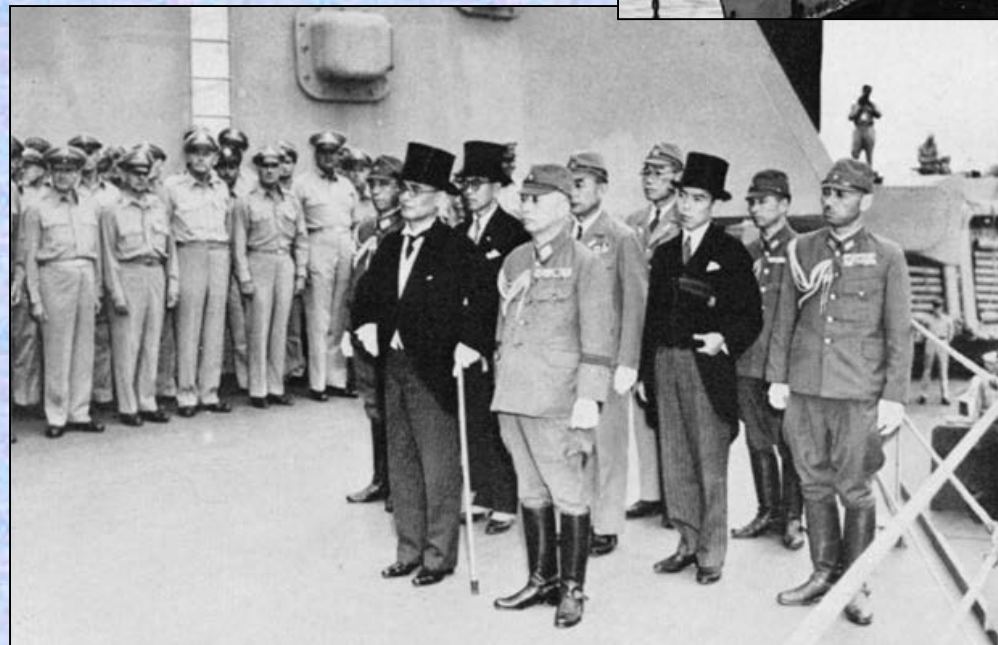




Hiroshima Memorials



V-J Day (September 2, 1945)



End of WORLD WAR II





End of WORLD WAR II

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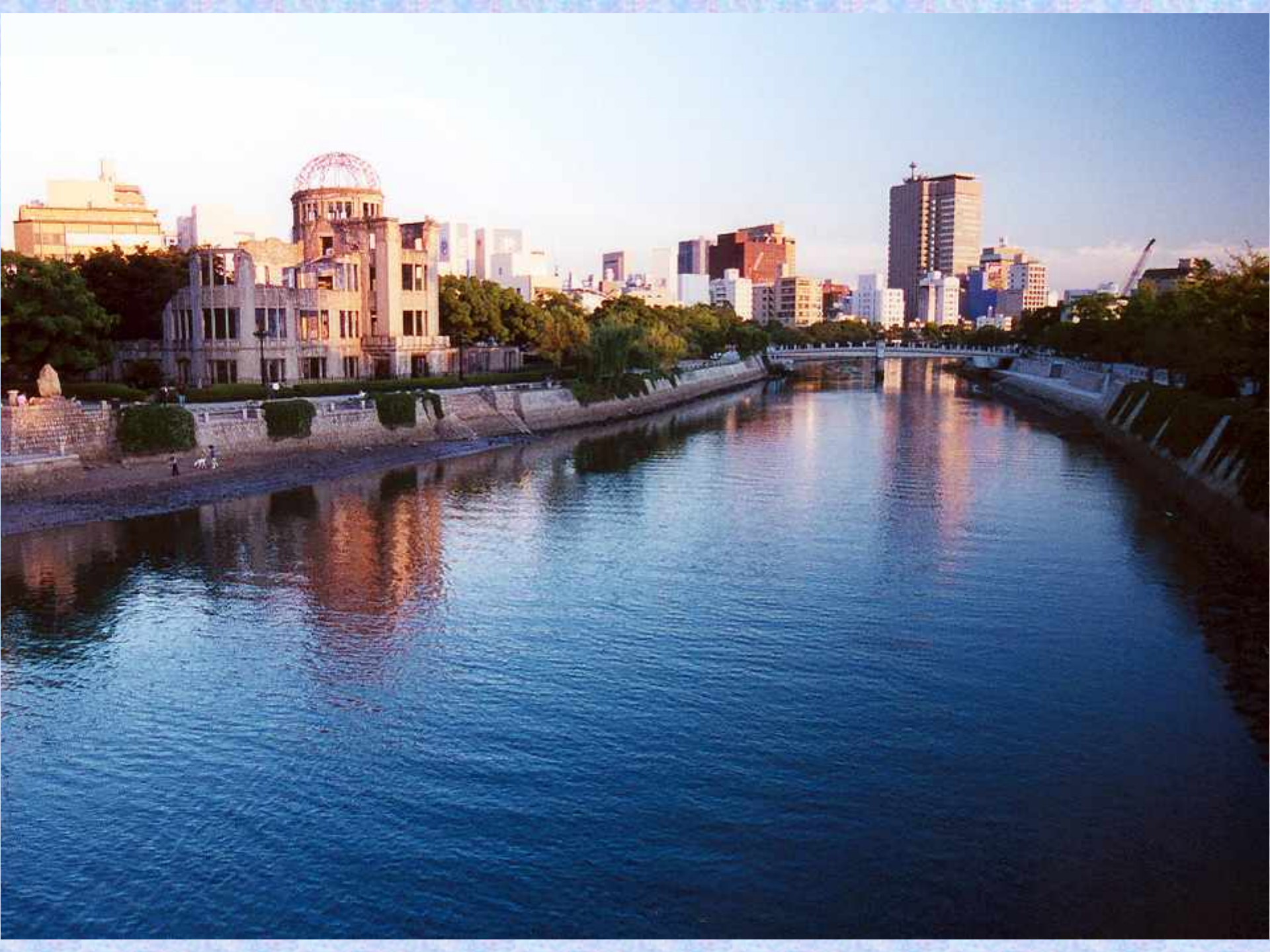


End of WORLD WAR II











- **'Lucky' Yamaguchi, The Man Who Survived Both The Hiroshima And Nagasaki Atomic Bombs**
- Died Jan 2010 at age 93

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End of WORLD WAR II

- August 9, 1945
- Nagasaki bombed



End of WORLD WAR II

- Hiroshima 100,000 deaths from initial explosion
- Many more died from radiation poisoning
- 60,000 died at Nagasaki

End of WORLD WAR II

- Japan offered to surrender
August 10, 1945
- The Emperor in the first radio broadcast told Japanese people that Japan was surrendering

End of WORLD WAR II

- First time ever Japanese people actually heard their Emperor speak

End of WORLD WAR II

- Japan surrendered on
- September 2, 1945
- Unconditional except Emperor was allowed to stay

End of WORLD WAR II

- World War II was over

