



The 26 Companies in the Nuclear Weapons Industry:

(source: www.dontbankonthebomb.com)

Aecom (USA)

Aecom is part of the group of companies managing US nuclear weapons laboratories and testing facilities, including those responsible for design and fabrication of electronic, mechanical and structural systems for nuclear weapons.⁴ Without Aecom, modernisations plans for the US nuclear arsenal would come to a halt. Aecom and its partners have been cited for substandard performance in recent years, and the US government cut the fees in recent years, citing "*significant or 'First Degree' performance failure*".⁵

Aerojet Rocketdyne (USA)

Aerojet Rocketdyne, formerly known as GenCorp is involved in the design, development and production of land- and sea-based nuclear ballistic missile systems for the United States. It is currently producing propulsion systems for the Minuteman III and Trident II (D5) nuclear missile systems.⁶

Airbus (The Netherlands)

Airbus is a Dutch company that produces and maintains submarine-launched nuclear missiles for the French navy (the M51.2), it is also developing the next generation submarine launched missiles, the M51.3. Airbus is a key member of the joint venture MBDA-Systems, which has contracts to extend the life of French ASMPA missiles through 2035. MBDA also has contracts for the new French missiles, the ASN4G.⁷

BAE Systems (United Kingdom)

BAE Systems is involved in the nuclear weapons programmes of France, the UK and the US. It produces key components for Trident II (D5) missiles for the US and UK nuclear arsenals. It also produces US Minuteman III Intercontinental Ballistic Missile (ICBM) systems.⁸ BAE Systems is also part of the MBDA joint venture and provides nuclear armed air-to-surface missiles for France.⁹

Bechtel (USA)

Bechtel manages the Los Alamos and Lawrence Livermore national laboratories in the US, which play an important role in the research, design, development and production of nuclear weapons. The US National Nuclear Security Administration has been repeatedly criticized for renewing these contracts despite significant performance issues.¹⁰ Bechtel is also involved in the production and refurbishment of US nuclear weapons at the Y-12 National Security Complex in Tennessee and the life extension programme for the W76 warheads deployed on Trident II (D5) ballistic missiles at the Pantex Plant in Texas.¹¹

Boeing (USA)

Boeing is contracted to help keep the Minuteman III nuclear intercontinental ballistic missiles operational in the US nuclear arsenal until 2030.¹² Boeing will also be producing



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the new Ground Based Strategic Deterrent system for the US, designed to replace the Minuteman III system.¹³ Boeing is also producing the guided tail kit for the new B61-12 US nuclear gravity bomb (the ones meant to be deployed to Europe).¹⁴ In addition, Boeing also has contracts for key components for US and UK Trident II (D5) nuclear weapons.¹⁵

BWX Technologies (USA)

BWX Technologies (“BWXT”) formerly known as Babcock & Wilcox Company operates several US nuclear weapons facilities through joint ventures. These facilities including the Lawrence Livermore National Laboratory, Los Alamos National Laboratory, and Nevada National Security Site (NNSS), previously known as the Nevada Test Site, each of which are engaged in aspects of nuclear warhead modernisation for the US arsenal and have also provided data to UK nuclear labs.¹⁶ Along with other partners, BWXT was cited for substandard performance in recent years, and relevant US government agencies were criticized for renewing their contracts.¹⁷

Charles Stark Draper Lab (USA)

Charles Draper Lab has been responsible for designing and developing inertial guidance systems for strategic missile applications since the 1950s. They designed, among others, the guidance system for the US Air Force Peacekeeper ICBM. Draper Lab is currently the prime contractor for re-designing the boost guidance system for Trident nuclear missiles through 2040.

Engility Holdings (USA)

Engility Holdings conducts the mission planning and post flight analysis of the accuracy and other performance parameters of Minuteman ICBM flight tests. It also provides tactical advisory services, system performance analysis, and supports system engineering functions for upgrades and enhancements to the ICBM system.

Fluor (USA)

Fluor is the lead partner responsible for the management and operation of the US nuclear weapons facilities at Savannah River South Carolina. Fluor is responsible for managing the nuclear arsenal at the sites (Savannah River Site and Savannah River National Laboratory) among other tasks.²⁰

General Dynamics (USA)

General Dynamics holds numerous contracts related to the Trident II (D5) missile systems for the UK and US. It provides a range of engineering, development, and production activities to support to US and UK Trident II Strategic Weapons Systems. It is also involved in the guidance systems of the Trident II (D5) nuclear missiles of the US Navy.²¹

Honeywell International (USA)

Honeywell International manages and operates the National Security Campus (formerly Kansas City Plant), which produces about 85% of the non-nuclear components for US nuclear weapons including electronic, mechanical and hardware components.²² Honeywell is also involved in managing other US nuclear weapon facilities including Savannah River,



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the National Nuclear Security Site (former test site), and the Sandia Lab. The work at Sandia includes the systems integration work connecting nuclear weapons to their delivery vehicles.²³ Honeywell is also involved in producing key components for the Trident II (D5) nuclear missiles which comprise part of the UK and US arsenals.²⁴

Huntington Ingalls Industries (USA)

Huntington Ingalls Industries is involved in management of the US nuclear arsenal and related facilities, including tritium production at the Savannah River Site, the only source of new tritium for the US nuclear arsenal.²⁵

Jacobs Engineering (USA)

Jacobs Engineering Group is one of the joint venture partners operating the former nuclear weapons test site in the US (now called the Nevada National Security Site). The site continues to conduct nuclear weapons related experiments, sending data to both US and UK nuclear weapons laboratories.¹⁸ Jacobs Engineering is also involved in the joint venture AWE-ML. The AWE is responsible for warhead maintenance for the UK's Trident II-nuclear arsenal.²⁶ According to reports, the AWE facility is also developing a new warhead, the Mark 4A or Mk4A.²⁷ CH2M Hill, another nuclear weapons producer, was acquired by Jacobs Engineering in December 2017.

Larsen & Toubro (India)

Larsen & Toubro is responsible for developing the launcher system for the nuclear-capable short-range surface-to-air Akash missile system for the Indian nuclear arsenal.²⁹

Leonardo Finmeccanica (Italy)

Leonardo is involved in the design, development and delivery of Transporter Erector Replacement Vehicles for the US Minuteman III intercontinental ballistic missile fleet. It is also involved in the production of medium-range air-to-surface nuclear missiles for the French nuclear arsenal.

Lockheed Martin (USA)

Lockheed Martin is responsible for the construction of the Trident II (D5) nuclear missiles for the US and the UK.³⁰ It is also involved in the production and maintenance of the Minuteman III nuclear intercontinental ballistic missiles for the US,³¹ and will now be developing the new Long Range Stand- Off (LRSO) missile.³² It is part of the team that manages the UK Atomic Weapons Establishment, that designs, manufactures and maintains nuclear warheads for the UK.³³ It is also engaged in US nuclear weapons modernisation at the Pantex, Savannah River and Y-12 facilities.³⁴

Moog, Inc. (USA)

Moog, Inc. acts as a subcontractor for Lockheed Martin, providing Trident (D5) first, second, and third State Servo Actuator Assemblies. It has also developed launch vehicle and strategic missile controls for the Minuteman III and Trident (D5) nuclear missiles.



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Northrop Grumman (USA)

Northrop Grumman makes Intercontinental Ballistic Missiles (ICBM) for the US nuclear arsenal. It is currently involved the Minuteman III missiles,³⁵ and will now be producing the new “Ground Based Strategic Deterrent” (GBSD) nuclear missiles.³⁶ It also produces Trident II (D5) launcher subsystem components for the US and the UK.³⁷ It is also partly responsible for the Nevada National Security Site (NNSS), previously known as the Nevada Test Site, which is engaged in aspects of nuclear warhead modernisation for the US arsenal and has also provided data to UK nuclear labs.³⁸

Orbital ATK (USA - Subsidiary of Northrop Grumman)

Orbital ATK (formerly known as ATK or Alliant Techsystems) produces rocket propulsion systems for Trident II (D5) submarine launched ballistic missiles for the US and UK nuclear arsenals.³⁹ Orbital ATK is also responsible for the solid propellant stages of the Minuteman III Intercontinental Ballistic Missile (ICBM) for the US and has a contract to produce components for the new “Ground Based Strategic Deterrent” (GBSD) nuclear missiles.⁴⁰ It is also involved in the nuclear weapons facilities Y-12 and Pantex which are refurbishing nuclear weapons for the US arsenals.⁴¹ Northrop Grumman announced it will acquire Orbital ATK in the first half of 2018.⁴²

Raytheon (USA)

Raytheon is involved in re-designing the Minuteman III missile system for the US nuclear arsenal.

It is also producing key components for the new US Long Range Standoff weapon that is to be developed to replace nuclear-tipped air-launched cruise missiles currently fitted to B-52 bombers.

Safran (France)

Safran and Airbus together form ArianeGroup which is in charge of producing the solid rocket motors on the M51, the strategic ballistic missile in France’s nuclear arsenal. The M51 carries multiple warheads and is replacing the M45.⁴³

Serco (United Kingdom)

Serco is part of the joint venture AWE-ML, which runs the UK Atomic Weapons Establishment. It is responsible for manufacturing and maintaining the nuclear warheads for UK arsenal.⁴⁴ It is also involved in the development of an entirely new warhead, the Mark 4A or Mk4A⁴⁵ which reportedly commenced without formally notifying the UK parliament.⁴⁶

Textron (USA)

Textron designs and builds re-entry vehicles for the US Minuteman III inter-continental ballistic missile (ICBM).



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Thales (France)

Thales is working alongside the French government to modernise the M51.3 nuclear ballistic missiles and keep the ability to launch them from submarines. It has also been directly involved in the M51 French nuclear missile production.

Walchandnagar Industries (India)

Walchandnagar Industries supplies infrastructure and facilities for the production of the surface-to-air short-range Akash nuclear missile for the Indian arsenal. It also manufactures the main thrust motor casing segment for the intercontinental ballistic Agni-V nuclear missile.