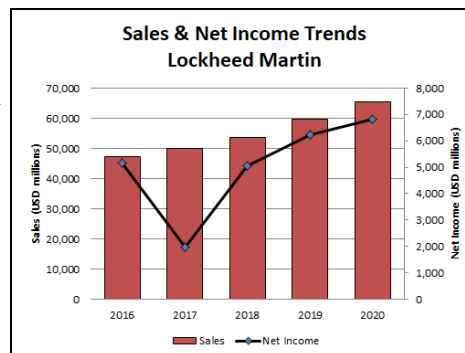


# Lockheed Martin

## Outlook

- Lockheed Martin dodged the worst of the COVID-19 crisis, with 2020 sales up 9 percent to \$65.4 billion
- Net earnings from continuing operations in 2020 were \$6.8 billion, compared to \$6.2 billion in 2019
- COVID-19-related supply disruptions slowed production on F-35 and delayed the symbolic full-rate production decision
- Firm is acquiring Rocketdyne Aerojet for \$4.4 billion in order to support its space systems, missiles, and hypersonic programs



## Headquarters

Lockheed Martin Corporation  
6801 Rockledge Dr  
Bethesda, MD 20817-1877  
Telephone: + 1 (301) 897-6000  
Website: <https://www.lockheedmartin.com/>

On March 15, 1995, two of the largest defense contractors in the United States, Lockheed and Martin Marietta, consummated a transaction in which both corporations became wholly owned subsidiaries of a newly created holding company, Lockheed Martin Corporation. The resultant corporation is a strategic leader in the aerospace and defense industry, with core businesses in aeronautics, electronics, information and technology services, space systems, and missiles.

Lockheed Martin traces its roots to the first days of aviation. Martin Marietta had its beginning in 1909, when aviation pioneer Glenn L. Martin organized a company around a small airplane construction business and built it into a major airframe supplier to the U.S.

military and commercial customers. Martin Marietta was founded in 1961 through consolidation of the Martin Company and the American-Marietta Company, a supplier of building and road construction materials.

Lockheed was born in 1913, the same year aviation pioneers Allan and Malcolm Loughead designed, built, and flew a seaplane over San Francisco Bay. The company's founder, Allan Loughead – who later changed his name to Lockheed to match its pronunciation – moved to Burbank, California, in 1928 to give himself and partner Jack Northrop more room to churn out their plywood Vega plane. The modern Lockheed Corporation was formed in 1932, following a reorganization of the fledgling aircraft company.

In 2015, the company added helicopter manufacturer Sikorsky to its portfolio of operations in a \$9 billion transaction.

Lockheed Martin is the largest defense contractor in the world, with 375-plus facilities in over 50 countries.

## Structure and Personnel

James D. Taiclet  
Chairman, Chief Executive Officer, and President  
Kenneth R. Possenriede  
Executive Vice President and  
Chief Financial Officer  
Frank A. St. John  
Chief Operating Officer

Dean Acosta  
Senior Vice President, Chief Communications  
Officer  
Richard F. Ambrose  
Executive Vice President, Space  
Timothy Cahill  
Senior Vice President,  
Global Business Development

## Lockheed Martin

Scott Greene

Executive Vice President, Missiles  
and Fire Control

Stephanie C. Hill

Executive Vice President, Rotary and  
Mission Systems

Yvonne O. Hodge

Senior Vice President, Enterprise Business  
Transformation

Greg A. Karol

Senior Vice President, Human Resources

Maryanne Lavan

Senior Vice President, General Counsel and  
Corporate Secretary

Leo S. Mackay, Jr.

Senior Vice President, Ethics and  
Enterprise Assurance

Rodney A. Makoske

Senior Vice President of Corporate Engineering,  
Technology and Operations

Robert E. (Rob) Mullins

Senior Vice President, Corporate Strategy and  
Development

Robert S. Rangel

Senior Vice President, Government Affairs

Gregory M. Ulmer

Executive Vice President, Aeronautics

## Product Area

The Lockheed Martin Corporation is aerospace and defense OEM that researches, designs, develops, tests, manufactures, markets, services, maintains, and modifies products and systems that include aircraft, missiles, spacecraft, electronic systems, and ocean systems.

Lockheed Martin's operating units are believed to be managed as follows:

1. Aeronautics
  - 1.1 Combat Aircraft
  - 1.2 Skunk Works
  - 1.3 Aeronautics Sustainment
2. Missiles and Fire Control
  - 2.1 Air Superiority
  - 2.2 Strike Weapons
  - 2.3 Integrated Air and Missile Defense
  - 2.4 Precision Fires
  - 2.5 Close Combat
3. Rotary and Mission Systems
  - 3.1 C4ISR
  - 3.2 Cyber Solutions
  - 3.3 Directed Energy
  - 3.4 Electronic Warfare
  - 3.5 Maritime Systems
  - 3.6 Radar and Sensors
  - 3.7 Sikorsky
  - 3.8 Training, Logistics & Sustainment
  - 3.9 Unmanned Systems
4. Space
  - 4.1 Commercial
  - 4.2 Manned
  - 4.3 Military
  - 4.4 Satellites and Probes

**Aeronautics.** Aeronautics is engaged in the design, development, manufacture, integration, sustainment, support, and upgrade of advanced military aircraft and UAVs. Major products and programs include the

design, development, and production of the F-35 Joint Strike Fighter (JSF), the F-22 air dominance and multimission combat aircraft, the F-16 multirole fighter, and the C-130J tactical transport aircraft; modernization of the C-5M strategic airlifter; and provision of support for the P-3 maritime patrol aircraft, S-3 multimission aircraft, and U-2 high-altitude reconnaissance aircraft. Other programs include the production of components for Japan's F-2 fighter and codevelopment of the T-50 advanced jet trainer for South Korea. Lockheed Martin's famous Skunk Works advanced development organization falls under the aegis of the aeronautics segment and is focused on the development of next-generation innovative systems using rapid prototyping and advanced technologies.

**Missiles and Fire Control.** This unit provides air and missile defense systems; tactical missiles and air-to-ground precision strike weapon systems; fire control systems; mission operation, readiness, engineering support, and integration services; logistics and other technical services; and manned and unmanned ground vehicles. Major programs include the Patriot Advanced Capability-3 (PAC 3) and Terminal High Altitude Area Defense (THAAD) air and missile defense programs; the Multiple Launch Rocket System (MLRS); the HELLFIRE, Javelin, and Joint Air-to-Surface Standoff Missile (JASSM) tactical missiles; and the Apache, Sniper, and LANTIRN fire control systems.

**Rotary and Mission Systems.** Produces military and commercial helicopters; ship and submarine mission and combat systems; mission systems and sensors for rotary- and fixed-wing aircraft; sea- and land-based missile defense systems; radar systems; and the Littoral Combat Ship (LCS). In addition, provides simulation and training services and unmanned systems and technologies.

## Lockheed Martin

In November 2015, Lockheed Martin acquired Sikorsky, expanding its operations into the rotorcraft market. Major products include the Black Hawk line, which comprises the latest generation multimission UH-60M helicopter, the HH-60M medical evacuation helicopter, and the S-70i. The Seahawk series includes the MH-60R, MH-60S, and international S-70B helicopters. The company also produces the CH-53K heavy-lift helicopter and presidential helicopters such as the VH-3D and VH-60. This segment also produces the SA2-37B and SA-38B fixed-wing aircraft.

Other key programs for this segment include the AEGIS combat system, the LCS, the Mk 41 vertical launch system (VLS), the TPQ-53 radar, the Space Fence system, and the Advanced Hawkeye Radar System.

**Space.** Space's major products include satellites, strategic and defensive missile systems, and space transportation systems. Current major programs are the Space-Based Infrared System (SBIRS), the Advanced Extremely High Frequency (AEHF) system, the Mobile User Objective System (MUOS), the Global Positioning System (GPS III), the Geostationary Operational Environmental Satellite-R Series (GOES-R), the Trident II D5 fleet ballistic missile, and the Orion Multipurpose Crew Vehicle. This unit also provides expendable launch services for the U.S. government through the joint venture United Launch Alliance. Space Systems is also responsible for various classified systems and services in support of U.S. national security systems.

## Facilities

### Aeronautics

Lockheed Martin Aeronautics Company (Fort Worth Operations), 1 Lockheed Blvd, Fort Worth, TX 76108. Telephone: + 1 (817) 777-2000. This headquarters location (officially designated Air Force Plant 4) designs, develops, and produces military aircraft and associated electronic systems and equipment. The division is primarily engaged in the F-35 Lightning II program. Other facilities in the Fort Worth and Abilene area are considered a part of the Fort Worth operations.

Website: <https://www.lockheedmartin.com/en-us/who-we-are/business-areas/aeronautics.html>

Lockheed Martin Advanced Development Programs (aka Skunk Works), 1011 Lockheed Way, Palmdale, CA 93599. Telephone: + 1 (661) 572-2974. Designs and modifies aircraft and integrates systems for electronic warfare; command, control, and communications; special operations; and other high-technology applications. This enterprise has been responsible for the development of many of the United States' most innovative aircraft, including the P-80 Shooting Star, the SR-71 and U-2 reconnaissance aircraft, and the F-117 stealth fighter. Skunk Works has been the unofficial and cherished name of this organization since the early days of the aerospace industry.

Lockheed Martin Aeronautics Company, 86 S Cobb Dr, Marietta, GA 30063. Telephone: + 1 (770) 494-4411. Assembles the C-130 Hercules transport and F-22 Raptor fighter. The Marietta site is also responsible for the avionics and engine modernization programs for the C-5 Galaxy strategic transport; P-3 Orion program operations, including the new wing production line; and center wing assembly for all three variants of the F-35 Lightning II.

Lockheed Martin Aeronautics – Pinellas Park, 9300 28th St N, Pinellas Park, FL 33782. Telephone: + 1 (727) 578-6940. This facility specializes in metal forming, fabrication, and assembly of components for many of the company's aircraft programs.

Lockheed Martin Aeronautics – Greenville, 244 Terminal Rd, Greenville, SC 29605. Telephone: + 1 (864) 299-3350. The division provides worldwide logistics and management services to a broad range of U.S. government agencies, other Lockheed Martin companies, and international customers. In 2019, the F-16 production line was moved here.

Lockheed Martin AeroParts Inc (LMAPI), 211 Industrial Park Rd, Johnstown, PA 15904. This subsidiary supports the C-130, F-16, F-35, and C-5 platforms with new production and spare parts.

### Missiles and Fire Control

Lockheed Martin Missiles and Fire Control, 1902 W Freeway, Grand Prairie, TX 75051. Telephone: + 1 (972) 603-1000. This Dallas-area headquarters location handles program management and new product research and provides testing facilities for advanced tactical missiles, rockets, and space systems. Facilities in Camden, Arkansas, handle rocket and missile assembly.

Website: <https://www.lockheedmartin.com/en-us/who-we-are/business-areas/missiles-and-fire-control.html>

Lockheed Martin Missiles and Fire Control – Orlando, 5600 Sand Lake Rd, Orlando, FL 32819-8907. Telephone: + 1 (407) 356-2000. Designs, develops, and builds advanced combat systems. The company develops technologies related to electro-optics, millimeter-wave radar, image and signal processing, advanced materials, electronic packaging, and large system integration.



## Lockheed Martin

Lockheed Martin Missiles and Fire Control – Ocala, 498 Oak Rd, Ocala, FL 34472. Telephone: + 1 (352) 687-2163. Ocala is a system assembly and high-rate production facility. It manufactures electronic assemblies for commercial, defense, and space applications. Additionally, Ocala performs assembly and testing for various missile and fire control programs.

### Rotary and Mission Systems

Lockheed Martin Mission Systems and Training, 300 M St SE, Washington, DC 20003. This is the division headquarters.

Website: <https://www.lockheedmartin.com/en-us/who-we-are/business-areas/rotary-and-mission-systems.html>

Lockheed Martin Mission Systems and Training, 199 Borton Landing Rd, Moorestown, NJ 08057-0927. Telephone: + 1 (856) 722-4100. This division provides ship systems integration services, surface ship and submarine combat systems, sea-based missile defense systems, sensors, tactical avionics, port traffic management systems, missile launching systems, aerostat surveillance systems, and supply chain management programs and systems. The most notable programs include the Navy's AEGIS fleet air defense system, the EQ-36 Counterfire Target Acquisition radar, and the Littoral Combat Ship.

Lockheed Martin Mission Systems and Training, 1801 Route 17C, Owego, NY 13827. Telephone: + 1 (607) 751-2000. Provides systems integration, program management, hardware and software development, and manufacturing and logistics support for a variety of U.S. government and international customers. Prime contractor for the VH-71 presidential helicopter, co-prime for the U.S. Navy's MH-60R/S multimission helicopter program, and prime contractor for the U.K. Royal Navy's Merlin Mk 1 helicopter. Also provides systems for fixed-wing aircraft and is prime contractor for the U.S. Air Force's A-10C close air support aircraft modernization program. Other integration activities are performed for postal automation systems and military tactical wheeled vehicles, among others.

Lockheed Martin Mission Systems and Training, 100 Global Innovation Circle, Orlando, FL 32825. Telephone: + 1 (407) 306-1000. Provides flight, ground, maritime and civil training, and simulation solutions. Major programs include F-16, F-35 JSF, and C-130 aircrew training systems; Aircrew Training and Rehearsal Support (ATARS) for USAF Special Operations Forces and combat search-and-rescue aircrews; the C-130J Maintenance and Aircrew Training System (MATS); Joint Asset Management and Engineering Solutions; the Virtual Combat Convoy Trainer (VCCT); the Warfighter Simulation war-gaming

system; the Combat Training Center-Objective Instrumentation System (CTC-OIS); the Combined Armed Tactical Trainer (CATT); and the Close Combat Tactical Trainer (CCTT) and Reconfigurable Vehicle Simulator (CCTT-RVS).

Sikorsky, a Lockheed Martin Company, 6900 Main St, Stratford, CT 06497. Telephone: + 1 (203) 386-4000. Sikorsky designs, develops, manufactures, and services medium and large helicopters for military and commercial requirements.

Website: <https://www.lockheedmartin.com/en-us/capabilities/sikorsky.html>

PZL Mielec, ul.Wojska Polskiego 3, 39-300 Mielec, Poland. Telephone: + 48 17 788 7921. Manufactures fixed-wing aircraft, including agricultural and firefighting planes, passenger/cargo commuters, and trainer aircraft. Acquired by Sikorsky in March 2007.

Website: <http://www.pzlmielec.pl>

Composite Technology Inc, 1727 S Main St, Dallas-Fort Worth Airport, PO Box 610407, TX 75261. Telephone: + 1 (972) 456-6900. Certified by Bell, Airbus Helicopters, Kazan Helicopters, MD Helicopters, Schweizer, and Sikorsky to repair metal and composite main/tail rotor blades, and has developed capabilities for composite manufacture and repairs.

Sikorsky Australia (Helitech), 77 MacArthur Ave, Central Pinkenba, QLD 4008, Australia. Provides support for Sikorsky, Bell, and other manufacturers of rotary-wing aircraft throughout the Pacific and Southeast Asian regions.

Website: <https://www.sikorsky.com.au/>

Associated Aircraft Group Inc, Hudson Valley Regional Airport, 32 Griffith Way, Wappingers Falls, NY 12590. Telephone: + 1 (845) 463-6500. Associated Aircraft Group is a wholly owned Sikorsky subsidiary, offering integrated helicopter services in the Northeast.

Website: <https://www.flyaaag.com/>

Derco, a Lockheed Martin Company, 8000 W Tower Ave, Milwaukee, WI 53223. Telephone: +1 (414) 355-3066 Provides logistics and technical support for fixed-wing aircraft. Sikorsky acquired Derco in 2002.

### Space Systems Company

Lockheed Martin Space Systems Company, 12257 S Wadsworth Blvd, Littleton, CO 80125-8500. Telephone: + 1 (303) 977-3000. This Denver-area location is also the headquarters for the Space Systems Company. The group provides strategic systems ground support services; designs and builds special space instrumentation equipment, spacecraft parts, and components; and provides commercial and military

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space launch vehicles and services. Chief products and services include the Titan and Atlas family of launch boosters, payload integration, the Centaur upper stage, and spacecraft for military and civil space programs.

Website: <https://www.lockheedmartin.com/en-us/capabilities/space.html>

Lockheed Martin Space Systems – Sunnyvale, PO Box 3504, 1111 Lockheed Way, Sunnyvale, CA 94088-3504. Telephone: + 1 (408) 742-7151. This group plays a significant role in NASA's International Space Station program. Strategic and Missile Defense Systems is developing the THAAD missile system for the U.S. Army and the Milstar communications satellite system for the U.S. Air Force. Other operations and plants are located in Huntsville, Alabama; Cape Canaveral, Florida; Kings Bay, Georgia; East Windsor, New Jersey; Valley Forge, Pennsylvania; Charleston, South Carolina; Magna, Utah; Bangor, Washington; and Vandenberg Air Force Base, Santa Cruz, and Palo Alto, California.

Lockheed Martin Space Systems - Fleet Ballistic Missile, 1102 John Glenn Blvd, Titusville, FL 32780. Telephone: +1 (321) 264-8070. In 2019, Lockheed moved the Fleet Ballistic Missile (FBM) Headquarters from Sunnyvale, California, to Florida. This operation

developed the U.S. Navy submarine-launched fleet ballistic missile, the Trident II D5.

Website: <https://www.lockheedmartin.com/en-us/products/trident-ii-d5-fleet-ballistic-missile.html>

United Launch Alliance, 9100 E Mineral Circle, Centennial, CO 80112-3401. Telephone: + 1 (720) 922-7100. This joint venture with Boeing provides launch services on Lockheed Martin Atlas and Boeing Delta space launch vehicles.

Website: <http://www.ulalaunch.com>

### Other

Lockheed Martin UK, 56 Lafone St, London, SE1 2LX. Telephone: + 020 7798 2850. The operation focuses on the needs of the U.K.

Website: <https://www.lockheedmartin.com/en-gb/index.html>

Lockheed Martin Canada, 501 Palladium Dr, Ottawa, Ontario, Canada K2V 0A2. Telephone: + 1 (613) 599-3270. This operation produces defense and surveillance systems for naval and airborne programs.

Website: <https://www.lockheedmartin.com/en-ca/index.html>

## Corporate Overview

Lockheed Martin researches, designs, manufactures, operates, and sustains advanced technology systems, products, and services. Through four principal business segments – Aeronautics, Missiles and Fire Control, Rotary and Mission Systems, and Space Systems – the company serves customers in domestic and international defense and civil markets. Its principal customers are agencies of the U.S. government, which account for about 70 percent of sales.

### New Products and Services

**Tactical ISR Satellites.** In April 2021, Lockheed Martin introduced a new line of rapid, integrated, and affordable tactical Intelligence, Surveillance, and Reconnaissance (ISR) satellites. These satellites, based on Lockheed Martin's LM 400 midsize bus, enable tactical warfighters to track moving targets at long ranges and operate in contested and denied environments. The LM 400-based tactical ISR satellites will play a key role in Joint All-Domain Command and Control (JADC2) by allowing tactical warfighters to better employ space-based capabilities, the company said.

**GMLRS Alternative-Warhead.** In March 2021, Lockheed Martin received a \$1.12 billion contract from the U.S. Army for Lot 16 production of Guided Multiple Launch Rocket System (GMLRS) rockets and associated equipment. The contract calls for the production of more than 9,000 GMLRS Unitary and Alternative-Warhead (AW) rockets, more than 2,000 Low-Cost Reduced-Range Practice Rockets (RRPRs), and integrated logistics support for the U.S. Army, U.S. Marine Corps, and international customers. Work will be performed at the Lockheed Martin facilities in Camden, Arkansas; Dallas and Lufkin, Texas; and Ocala, Florida, and will be completed by September 2023.

**MAPS.** In February 2021, the U.S. Army selected Lockheed Martin to provide its Modular Active Protection System (MAPS) base kit, which includes an open-architecture processor that integrates vehicle sensors and countermeasures in a common framework to detect, track, and defeat rocket-propelled grenades and anti-tank guided missiles. Under the 36-month contract, Lockheed Martin will deliver five production-ready base kits, with an option for up to 20, and will

## Lockheed Martin

support Army integration and testing on Abrams, Armored Multi-Purpose Vehicle, Bradley, and Stryker vehicles. The contract also covers developing base kit support for vehicle protection capabilities beyond active protection, such as underbelly blast protection.

Website: [www.lockheedmartin.com/maps](http://www.lockheedmartin.com/maps)

**Platform One.** In February 2021, the U.S. Air Force added Lockheed Martin to Platform One, an advanced software development program that aims to accelerate the development and deployment of new software applications for defense missions.

Platform One is a standardized and widely mandated Department of Defense (DoD) DevSecOps Infrastructure program used for future software development. It enables faster software development and deployment with continuous updates to warfighters, and it will be used on programs like the Advanced Battle Management System (ABMS) and Aegis.

The Air Force recently awarded Lockheed Martin a Basic Ordering Agreement (BOA) for Platform One Software DevSecOps Services to support DevSecOps engineering, software development, cybersecurity and operations, and IT support. The BOA deepens Lockheed Martin's ongoing collaboration with the Platform One team, creating opportunities for Lockheed Martin to help build and support the Platform One solution and transition systems to Platform One.

**Palletized Munitions.** In October 2020, the U.S. Air Force Strategic Development Planning and Experimentation (SDPE) Office awarded Lockheed Martin a \$25 million contract to support the next phase of the service's Palletized Munitions Experimentation Campaign. The fourth phase includes a system-level demonstration in 2021 and continues to assess the potential to deliver large volumes of air-launched weapons via airlifters. The overall goal of the experimentation is to develop a modular system to deliver air-launched weapons, leveraging standard airdrop procedures and operations. The system will have the ability to be rolled on and off multiple types of aircraft, including the C-17 and C-130.

**Space Transport Layer.** In September 2020, the Space Development Agency (SDA) awarded a Tranche 0 contract of the Space Transport Layer to Lockheed Martin to demonstrate a mesh network of 10 small satellites that links terrestrial warfighting domains to space sensors. The \$187.5-million contract for Transport Layer's Tranche 0 is an initial test and demonstration phase, with two prime contractors building a total of 20 satellites (York Space Systems was awarded a \$94 million contract to also provide space vehicles). The first step toward building an

interoperable, connected secure mesh network, it will help enable Joint All-Domain Operations, allowing warfighters to stay ahead of emerging threats. The satellites are scheduled to launch in September 2022.

**Indago 3.** In July 2020, the Swiss Army contracted Lockheed Martin for a fleet of Indago 3 small unmanned aircraft systems (UAS), with options for spares, training, and tech support and additional systems. The Indago 3 is a military-grade, all-weather, group 1 quadrotor unmanned aircraft system. Depending on payloads and operating environment, Indago 3 has a flight time of up to 50 minutes, a range of 10 kilometers, a cruise speed of 25 knots, and dash at up to 40 knots. At approximately 5 pounds, Indago can be easily transported by a single backpack and deployed in less than three minutes, the company said. A contract value was not reported.

Website: [www.lockheedmartin.com/indago](http://www.lockheedmartin.com/indago)

**\$6 Billion PAC-3 Contract.** In April 2020, Lockheed Martin received a \$6.07 billion contract from the U.S. Army for the production of Patriot Advanced Capability-3 (PAC-3) Missile Segment Enhancement (MSE) interceptors and associated equipment, to be delivered across FY21, FY22, and FY23 contract years. The contract calls for the production and delivery of PAC-3 MSE interceptors, launcher modification kits, associated equipment, and non-recurring efforts to support the United States and global customers.

**Protected Tactical SATCOM.** In March 2020, the U.S. Space Force's Space and Missile Systems Center (SMC) awarded Lockheed Martin a \$240 million contract to develop a prototype payload for its new Protected Tactical SATCOM (PTS) system. PTS is a next-generation capability connecting warfighters with more agile and jam-resistant satellite communications (SATCOM). The complete system will deploy a constellation of dedicated geostationary satellites, commercially hosted payloads, and coalition partner satellites integrated through a ground control network to provide U.S. and coalition forces protected communications in a data hungry battlespace.

### Hypersonic Weapon Wins.

Hypersonic Air-breathing Weapon Concept. The Hypersonic Air-breathing Weapon Concept (HAWC) program is a joint DARPA/U.S. Air Force (USAF) effort that seeks to develop and demonstrate critical technologies to enable an effective and affordable air-launched hypersonic cruise missile.

In September 2020, DARPA and the USAF announced successful completion of captive carry tests of two variants of the HAWC.

## Lockheed Martin

HAWC performers Lockheed Martin and Raytheon Technologies have each tested advanced air vehicle configurations that promise to achieve and sustain efficient hypersonic flight. Their upcoming flight tests will focus on hydrocarbon scramjet-powered propulsion and thermal management techniques to enable prolonged hypersonic cruise, in addition to affordable system designs and manufacturing approaches.

**OpFires.** In January 2020, DARPA awarded Lockheed Martin a \$31.9 million contract for the Operational Fires (OpFires) Phase 3 Weapon System Integration program. OpFires seeks to develop and demonstrate a ground-launched system to enable a hypersonic boost glide missile system to penetrate modern enemy air defenses and rapidly engage time-sensitive targets. The award for Phase 3 of the OpFires program will take the design from the initial requirements development through the Critical Design Review (CDR) in late 2021. Integrated flight testing is scheduled to begin in 2022, with component and subsystem tests expected in 2021.

In August 2020, *Aviation Week* reported that the U.S. Army was no longer interested in this effort and was focusing on the Long Range Hypersonic Weapon (LRHW – detailed below). This system shares the Common Hypersonic Glide Body (CHGB) with the Navy's submarine-launched Conventional Prompt Strike missile. For the time being, development is continuing under DARPA.

In October 2020, Northrop Grumman, Dynetics, and Electronic Concepts & Engineering, Inc (ECE) joined Lockheed Martin on the OpFires Phase Three Weapon System Integration effort.

Website: [www.darpa.mil/program/operational-fires](http://www.darpa.mil/program/operational-fires)

**Long-Range Hypersonic Weapon.** In August 2019, the U.S. Army awarded Lockheed Martin a \$347 million contract as part of a multiyear hypersonic weapons development in support of the Army's focus on long-range precision strike missiles. As prime contractor for the Long-Range Hypersonic Weapon (LRHW) systems integration project, Lockheed Martin will develop and integrate a land-based hypersonic strike prototype in partnership with the Army Hypersonic Project Office, part of the Army Rapid Capabilities and Critical Technologies Office. Team members include Dynetics Technical Solutions (DTS), Integration Innovation Inc (i3), Verity Integrated Systems, Martinez & Turek, and Penta Research.

**Air-Launched Rapid Response Weapon.** In July 2018, Lockheed Martin was awarded a contract worth up to \$480 million for the conduct of a Critical Design Review and to provide test and production readiness support for the U.S. Air Force's Air-Launched Rapid

Response Weapon (ARRW, pronounced "Arrow"), one of the service's ongoing hypersonic weapon development efforts. The ARRW program is leveraging work from a separate Air Force/DARPA hypersonic effort called Tactical Boost Glide. Boost glide vehicles use a rocket to accelerate to hypersonic speeds, then separate from the rocket and glide unpowered to their target. Early work on ARRW was actually made possible through the original TBG contract, and in this regard, ongoing work on TBG will serve as a risk reduction effort for ARRW. The ARRW weapon is known as the AGM-183A.

**Hypersonic Conventional Strike Weapon.** In April 2018, the U.S. Air Force awarded Lockheed Martin a \$928 million contract to develop a new missile that will travel more than five times faster than the speed of sound to overcome enemy defenses. Under the contract, Lockheed Martin was to develop the Hypersonic Conventional Strike Weapon (HCSW), a new air-launched weapon system. However, in February 2020, the U.S. Air Force canceled the HCSW program, instead choosing to focus on the ARRW (detailed above).

**Janus.** In June 2019, Lockheed Martin was selected to design dual small deep space spacecraft to visit near-Earth asteroids in a mission called Janus, led by the University of Colorado Boulder. One of NASA's Small Innovative Mission for Planetary Exploration (SIMPLEX) finalists, Janus is designed to fly past two binary asteroids, or asteroids orbiting a common center of mass, to image the system using both visible and infrared cameras. These small satellites will launch in 2022 to reach the asteroid system in 2026.

**Optionally Piloted Black Hawk Flies.** In May 2019, a technology kit developed by Sikorsky was used for the first time to operate a Black Hawk helicopter with full-authority, fly-by-wire flight controls. Through DARPA's Aircrew Labor In-Cockpit Automation System (ALIAS) program, Sikorsky is developing an OPV approach it describes as pilot-directed autonomy to give operators the confidence to fly aircraft safely, reliably and affordably in optimally piloted modes, enabling flight with two, one, or zero crew. Sikorsky has been demonstrating this technology, called MATRIX, on a modified S-76B called the Sikorsky Autonomy Research Aircraft (SARA). The aircraft, which has been in testing since 2013, has performed more than 300 hours of autonomous flight, the company said.

## Plant Expansion/Organization Update

**Long Range Fires Production Facility.** In September 2019, Lockheed Martin broke ground on the

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new \$142 million Long Range Fires Production Facility at the company's site in Camden, Arkansas. The new facility adds more than 70,000-square-foot of production and office space to the current property in Highland Industrial Park, supporting increased orders for the Army Tactical Missile System (ATACMS), the Guided Multiple Launch Rocket System (GMLRS), and the Low-Cost Reduced-Range Practice Rocket (LCRRPR). Construction is expected to be completed in 2021, with operations beginning in first quarter 2022.

**Lufkin Expansion.** In August 2019, Lockheed Martin opened a 30,000-square-foot building at its Lufkin, Texas, facility. The operation performs circuit card assembly, wire harness assembly and final assembly, as well as integration and testing, for the Guided Multiple Launch Rocket System (GMLRS), the PAC 3 guided missile, the Terminal High Altitude Area Defense (THAAD) system, and the Tactical Missile System (TACMS).

**FBM Headquarters Moved.** In July 2019, Lockheed Martin completed the move of its Fleet Ballistic Missile (FBM) headquarters from Sunnyvale, California, to Titusville on Florida's Space Coast. Under the FBM program, Lockheed Martin, produces Trident II D5 submarine-launched ballistic missiles. These missiles are carried aboard the U.S. Navy's Ohio class submarines and the U.K.'s Vanguard class submarine. In 2017, the FBM program announced that portions of the program would also be relocated to Colorado (see below).

**Troy Expansion.** In May 2019, Lockheed Martin broke ground on a new 225,000-square-foot strike systems production facility in Troy, Alabama. Construction is slated for completion in 2021, with Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER) production ramping up in the second half of 2022.

**Orlando Expansion.** In February 2019, Lockheed Martin opened a new \$50 million, 255,000-square-foot office Research & Development II facility in Orlando, Florida. Employees working in the new facility will support engineering, program management, and research and development activities for the company's Missiles and Fire Control division. Lockheed Martin officially broke ground for the six-story building in February 2018.

**Pinellas Park Expansion.** In April 2018, Lockheed Martin expanded its facility in Pinellas Park, Florida, to support increased F-35 production. The new facility will assemble canopies and bulkheads for the F-35 Lightning II program. The facility adds 65,500 square feet of manufacturing and office space.

**Alabama Training Facility.** In September 2017, Lockheed Martin opened a new onsite training facility at the company's Pike County Operations site in Troy, Alabama. The Advanced Manufacturing & Technology Center is a \$2 million project funded by Alabama Industrial Development Training, a state-backed workforce training agency. The 7,000-square-foot building will drive workforce development by offering the site's more than 450 employees the ability to advance their educations online, by providing a central location for team functions, and by serving as a training center for local military and state agencies.

**New Satellite Facility.** In August 2017, construction began on a new \$350 million facility that will produce next-generation satellites. The facility is located on the company's Waterton Canyon campus near Denver. The new 266,000-square-foot Gateway Center was scheduled for completion in 2020.

**F-16 Production Shifted to South Carolina.** In March 2017, Lockheed Martin moved production of the F-16 to Greenville, South Carolina, in order to expand F-35 production in Fort Worth, Texas. The line, which produces the F-16 Block 70 aircraft, was inaugurated in April 2019.

**Fleet Ballistic Missile Shift.** In February 2017, Lockheed Martin announced plans to relocate the Fleet Ballistic Missile program within its Space Systems business area in order to colocate employees with common skills and resource requirements. These moves, which have been approved by the government, are expected to deliver substantial cost savings while centralizing mission expertise in key locations. Over the next eight years, the company plans to move approximately 650 positions from its Space Systems facility in Sunnyvale, California, to Lockheed Martin locations in Florida and Colorado.

**Rotary and Mission Systems Unit Formed.** In August 2016, Lockheed Martin renamed its Mission Systems and Training business area, establishing Rotary and Mission Systems to reflect the recent growth of the business following the acquisition of Sikorsky and realignment of other parts of the company. The RMS portfolio features more than 1,000 programs covering helicopters, integrated air and missile defense, littoral warfare, undersea warfare, radar, electronic warfare, cyber solutions, C4ISR, and training and logistics systems.

**Advanced Pilot Training Facility Opened.** In August 2016, Lockheed Martin opened its Advanced Pilot Training facility in Greenville, South Carolina. The newly refurbished building will house the Ground Based Training System, as well as the tooling and



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manufacturing equipment required to complete final assembly of the T-50A trainer aircraft.

**Hercules Training Center.** In June 2016, Lockheed Martin celebrated the groundbreaking of the Hercules Training Center, a facility at the Lockheed Martin Aeronautics site in Marietta, Georgia. The HTC will train the next generation of air mobility pilots and crews for the C-130J airlifter and LM-100J commercial freighter.

The HTC opened in June 2019. The facility includes classroom space, training devices, and a new, reconfigurable C-130J/LM-100J full mission simulator.

Website: <https://www.lockheedmartin.com/en-us/products/hercules-training-center.html>

**Lockheed Martin Energy Formed.** In March 2016, Lockheed Martin combined its energy products and technologies into a single commercial line of business known as Lockheed Martin Energy. The new business combines technologies and products previously aligned in separate business areas across Lockheed Martin, including energy management, energy storage, nuclear systems, ocean technologies, and bioenergy. The unit is based in Grand Prairie, Texas, has nearly 1,000 employees worldwide, and is aligned under Lockheed Martin's Missiles and Fire Control business area.

### Mergers/Acquisitions/Divestitures

**Aerojet Rocketdyne Acquisition.** In December 2020, Lockheed Martin agreed to acquire Aerojet Rocketdyne Holdings in a deal valued at \$4.4 billion. The proposed acquisition adds substantial expertise in propulsion to Lockheed Martin's portfolio and expands on the solid foundation Lockheed Martin and Aerojet Rocketdyne built over many years.

Aerojet Rocketdyne's propulsion systems are already a key component of Lockheed Martin's supply chain and several advanced systems across its Aeronautics, Missiles, and Fire Control and Space business areas. Aerojet had 2019 sales of approximately \$2 billion. The company employs nearly 5,000 across 15 primary operations sites in the United States.

However, Raytheon Technologies is planning to challenge the acquisition, as Aerojet is a key supplier to Raytheon, and the acquisition could impact the competitive landscape going forward. The Federal Trade Commission is reviewing the acquisition as part of a regulatory process under the Hart-Scott-Rodino Act. The transaction is expected to close in the second half of 2021.

**i3 Hypersonics Business Acquired.** In October 2020, Lockheed Martin signed a definitive agreement to acquire the hypersonic strike related

operations of Integration Innovation Inc (i3), a software and systems engineering company based in Huntsville, Alabama.

Adding i3's talent and expertise to the Lockheed Martin portfolio will expand capabilities for customers across several mission areas and national security needs, while also allowing for more integrated solutions, the company said.

The deal closed in November 2020, and i3's Hypersonics portfolio is now managed by the Space business area. Terms were not reported.

**AMMROC Divestment.** In July 2020, EDGE, an Abu Dhabi based advanced technology group, entered into a conditional agreement to acquire the remaining 40 percent stake currently held by Lockheed Martin and Sikorsky in the Advanced Military Maintenance Repair and Overhaul Center (AMMROC). AMMROC provides MRO services to various Lockheed Martin platforms including the C-130 transport, F-16 fighter, and UH-60 helicopter. AMMROC was originally formed by Lockheed Martin in 2010 along with another UAE firm since absorbed into Edge.

Website: <https://ammroc.edgroup.ae/home>

**Red 6 Investment.** In June 2020, Lockheed Martin Ventures made a strategic investment in Red 6. The funds will be used to accelerate the development and commercialization of Red 6's ATARS (Airborne Tactical Augmented Reality System). ATARS allows pilots in real airplanes to fly and visually maneuver against a synthetically generated enemy in real time.

Website: <https://www.red6ar.com/>

**TRC Acquires Distributed Energy Unit.** In 2019, Lockheed Martin and TRC Companies announced a definitive agreement in which TRC will acquire Lockheed Martin Energy's Distributed Energy Solutions group. The sale is part of Lockheed Martin Energy's strategy to focus on products and technology for the energy marketplace and the Department of Defense. Distributed Energy Solutions (DES) is a commercial business principally engaged in providing distributed energy services to electric and gas utility customers. The deal was completed in November 2019. Terms were not announced.

**IS&GS Merged with Leidos.** In August 2016, Lockheed Martin completed the separation of its Information Systems & Global Solutions (IS&GS) business segment and merged it with a subsidiary of Leidos Holdings Inc. The deal was valued at approximately \$4.6 billion, inclusive of a \$1.8 billion special cash payment to Lockheed Martin and \$2.8 billion of Leidos common stock to be distributed to

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participating Lockheed Martin stockholders through the exchange offer. The \$1.8 billion cash payment is being used by Lockheed Martin to repay debt, pay dividends, and/or repurchase its stock. The deal was announced in January 2016 and followed up on a July 2015 announcement that the company was looking to divest the operation as part of its Sikorsky acquisition plan.

**Sikorsky Acquired.** In November 2015, Lockheed Martin UTC closed on the \$9 billion purchase of Sikorsky Aircraft from United Technologies Corporation. The price was effectively reduced to approximately \$7.1 billion after taking into account tax benefits resulting from the transaction. Aligned under the Lockheed Martin Mission Systems and Training business segment, Sikorsky Aircraft is now known as Sikorsky, a Lockheed Martin company. MST and Sikorsky are partners on a number of critical programs, including the VH-92 presidential helicopter, the Combat Rescue Helicopter (CRH), and the naval MH-60 helicopter. Dan Schultz was named president of Sikorsky, which retained its headquarters in Stratford, Connecticut. The deal was first announced in July 2015.

**IT and Tech Businesses Reviewed.** In tandem with its 2015 Sikorsky purchase, Lockheed Martin initiated a strategic review of alternatives for its government IT and technical service businesses, primarily in the IS&GS business segment and a portion of the Missiles and Fire Control operations. The strategic review resulted in a sale of these components to Leidos in 2016 (see previous entry). The programs reviewed represent roughly \$6 billion in estimated 2015 annual sales and employ more than 17,000 people.

**High Speed Wind Tunnel Acquired.** In March 2015, Lockheed Martin purchased the High Speed Wind Tunnel (HSWT) in Grand Prairie, Texas, for an undisclosed amount. Although the company was the long-time operator of the HSWT, it had leased the facility from Triumph Aerostructures. The purchase would enable Lockheed Martin to invest in upgrades and manage scheduling, including testing by other companies and government agencies.

## Teaming/Competition/Joint Ventures

**Aero Vodochody.** In April 2009, Sikorsky and Aero Vodochody AS announced the signing of a Memorandum of Understanding (MoU) to jointly explore aerospace industry cooperation in Central and Eastern Europe. Aero Vodochody has been supplying airframes for the Sikorsky S-76 helicopter since 2000.

**Airbus.** In December 2018, Lockheed Martin and Airbus signed an agreement to explore opportunities to meet the demand for aerial refueling for U.S. defense

customers. The Airbus A330 Multi Role Tanker Transport (A330 MRTT) will be the focus of potential offerings. These may range from ways to support critical near-term air-refueling needs, such as a fee-for-service structure, to conceptualizing a future tanker design.

In May 2000, Lockheed Martin and Airbus signed an agreement covering a number of areas of cooperation, including how Airbus' worldwide support network could help platforms such as the Joint Strike Fighter. The goal would be to leverage Airbus' commercial jet infrastructure to help keep life-cycle costs down on Lockheed Martin's JSF.

**Alliance Future Surveillance and Control (AFSC).** In December 2019, the NATO Support and Procurement Agency (NSPA) awarded six contracts for the Alliance Future Surveillance and Control (AFSC) effort, which aims to replace the organization's Airborne Warning and Control (AWACS) aircraft in 2035. The contract winners include the Boeing - ABILITI Consortium (which includes Thales, Leonardo, Indra Systems, and Inmarsat), General Atomics, Lockheed Martin, Airbus, MDA and the L3Harris Consortium (composed of Musketter Solutions Limited, Videns Limited, 3SDL Limited, Synergeticon, Hensoldt Sensors GmbH, IBM UK Limited, and Deloitte Consulting & Advisory CVBA). High-level concepts proposed by the six contractors will be assessed by NATO to identify the most promising concepts for further development and feasibility analysis in a second competition that will be announced later in 2021.

**ASCENT.** In December 2003, Lockheed Martin UK Ltd, Rolls-Royce plc, and VT Group plc formally announced the name of their consortium bidding for the U.K. Military Flying Training System (UKMFTS) program. The team is known as ASCENT. The three companies had previously signed a letter of intent in September 2003 at London's Defence Systems Equipment International exhibition to team for the procurement of a training systems integrator for the MFTS. The team continued to support the U.K. MoD as the program progressed through its convergence phase. In November 2006, the ASCENT team was selected as the preferred bidder for the UKMFTS.

Website: <https://ascentflighttraining.com/>

**Ashok Leyland.** In March 2016, Ashok Leyland Defence Systems (ALDS), a subsidiary of the Indian automotive group Ashok Leyland, teamed with Lockheed Martin to develop and produce military vehicles for India. Initial efforts will be based on Lockheed Martin's Common Vehicle Next Generation (CVNG).

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**Australian Pilot Training Team.** In October 2013, Lockheed Martin and Pilatus Aircraft, supported by Hawker Pacific, teamed in a competition to provide pilot training for the Australian Defence Force. The consortium, known as Team 21, would compete for the AIR 5428 Pilot Training System program. (This team is currently providing the Pilot Training Basic Wings Course to the Republic of Singapore Air Force under a 20-year performance-based contract.) Team 21 submitted its bid in early 2014. It faced a rival team of BAE Systems, Beechcraft, and CAE. In September 2015, Australia's Department of Defence selected Team 21 as the preferred bidder. Team 21 will handle the delivery of 49 Pilatus PC-21 trainer aircraft along with flight-line support, training facilities, campus accommodation and facilities, courseware, and simulators and other synthetic training devices.

**Aviation Industry Corporation of China.** In January 2008, AVIC, through its subsidiaries Changhe Aircraft Industries Corporation and Shanghai Xinsheng Aviation Industry Investment and Development Company, joined Shanghai Sikorsky as a shareholder.

In October 2006, Schweizer signed an agreement for S-300 helicopter production with Changhe, and in July 2007, Sikorsky announced that it would collaborate in S-76 helicopter airframe production with Changhe.

Earlier, in June 2006, Sikorsky and AVIC signed an MoU for collaboration on the development and manufacture of civil helicopters. Under the MoU, Sikorsky and AVIC would discuss helicopter manufacturing, assembly, flight testing, engineering design and analysis, plus new product development, in the light, intermediate, and medium classes. The companies would also explore establishing AVIC's Changhe Aircraft Industry Corporation as a second source for the S-76 helicopter airframe.

**Belgian Fighter Replacement.** In October 2018, Belgium selected the F-35 as the replacement aircraft for its F-16 fleet. The company faced a competing offer from the Eurofighter consortium with the Typhoon. Dassault Aviation did not officially submit the Rafale, but instead was looking for a government-to-government deal that will offer the fighter directly. Belgium plans to buy 34 F-35A aircraft in a deal valued at around EUR4 billion. Deliveries are expected to start in 2023.

**Blue Origin.** In October 2019, Blue Origin signed teaming agreements with Lockheed Martin, Northrop Grumman, and Draper on its Human Landing System for NASA's Artemis program. As prime contractor, Blue Origin leads program management, systems

engineering, safety and mission assurance, and mission engineering while providing the Descent Element, which is based on the Blue Moon lunar lander and its BE-7 engine. Lockheed Martin develops the reusable Ascent Element vehicle and leads crewed flight operations and training. Northrop Grumman provides the Transfer Element vehicle that brings the landing system down towards the Moon. Draper leads descent guidance and provides flight avionics. The current plan is to return Americans to the lunar surface by 2024.

### **Boeing Sikorsky Aircraft Support (BSAS).**

Formed in 1993, this is a 50-50 joint venture between Sikorsky Support Services Inc and Boeing Aerospace Operations Inc. BSAS supports the U.S. Army's 26 MH-47E and 23 MH-60K Special Operations aircraft located at the 160th Special Operation Aviation Regiment at Fort Campbell, Kentucky.

### **Boeing Sikorsky International Services (BSIS).**

In 2013, Sikorsky and Boeing formed a joint venture to compete for sustainment services in support of Saudi Arabia's rotorcraft fleet. Contracts the joint venture will pursue are administered by the U.S. government as part of its FMS process. An equal-share joint venture, BSIS offers comprehensive in-country logistics, fleet and supply-chain management, maintenance support, and aircraft modifications, as well as training for aircrews and maintainers.

**BridgeIT.** In September 2018, Lockheed Martin and Denmark's BridgeIT announced a five-year industrial cooperation project to develop software and deliver it to Sikorsky field service representatives. BridgeIT will be working together with Sikorsky to deliver a modern mobile digital workplace solution to employees to support Sikorsky's global commercial helicopter customers.

**Canada's Combat Ship Team.** In February 2019, Canada signed a design contract for the Type 26 for the Canadian Surface Combatant program. Canada's Combat Ship Team is led by Lockheed Martin Canada and includes BAE Systems, CAE, L3 Technologies, MDA, and Ultra Electronics Maritime Systems. The frigates will be built at Irving Shipbuilding in Halifax. The award follows a brief three-month negotiation process that started in October when the Type 26 frigate was selected as Canada's preferred option in the surface combatant competition. Competitors included the Dutch De Zeven Provinciën class frigate-based design proposed by Alion Canada and Damen Group, and the Spanish F-105 frigate design offered by Navantia. The initial design contract is valued at CAD185 million (\$139 million), and the value will increase as design progresses. The program as a whole is valued at around

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CAD60 billion (\$45 billion) for the design and construction of 15 frigates. The program will replace Iroquois and Halifax class warships beginning in the early 2020s.

Website: <https://www.lockheedmartin.com/en-ca/csc.html>

**Canadian Fighter Replacement.** In February 2018, Canada announced that five manufacturers would be invited to bid to provide the replacement for Canada's Boeing F/A-18, currently in service. The list includes Boeing, Lockheed Martin, Airbus (with the Eurofighter), Saab, and Dassault. However, by year-end 2018, Dassault had withdrawn from the competition. This was followed by Airbus' withdrawal of the Eurofighter in September 2019. In July 2020, Canada received bids from the three remaining contractors: Boeing with the F/A-18E/F Super Hornet, Lockheed Martin with the F-35s, or Saab's Gripen E. A final contract award is expected in 2022, with deliveries beginning in 2025.

**Canada Future Aircrew Training.** Launched in December 2018, the Future Aircrew Training (FAcT) competition aims to provide future pilot and aircrew training services for the Royal Canadian Air Force (RCAF). In 2019, Airbus and BAE Systems withdrew from FAcT program. Four competitors remain, including Babcock Canada, Leonardo Canada, Lockheed Martin Canada, and SkyAlyne Canada. A formal Request for Proposals and contract award are expected in 2021 and 2023, respectively.

**Cyber Security Research Alliance.** In October 2012, AMD, Honeywell, Intel, Lockheed Martin, and RSA/EMC formed the Cyber Security Research Alliance. The CSRA is a private, nonprofit research consortium formed in response to the growing need for increased public-private collaboration to address complex cybersecurity problems. CSRA seeks to achieve coordinated industry participation to address national cybersecurity research and development imperatives and bridge the gap between government-funded R&D and commercially available products and solutions in cybersecurity.

**Daewoo Shipbuilding & Marine Engineering.** In April 2016, Lockheed Martin and Daewoo Shipbuilding & Marine Engineering (DSME) signed a teaming agreement to partner on the Multimission Combat Ship (MCS), which is based on a DSME hull design and intended for the corvette market. Lockheed Martin will provide its program and systems integration expertise to the venture.

**DRS Technologies.** In January 2004, Lockheed Martin and DRS Technologies formed an industry

consortium to conduct research into and develop a new generation of advanced naval displays. The consortium comprises the Lockheed Martin Maritime Systems & Sensors (MS2) Tactical Systems line of business and DRS's Electronic Systems Group. The consortium planned to pursue the U.S. Navy's Naval Display Systems contract, a follow-on to the UYQ-70 Advanced Display Systems program contract that Lockheed Martin had held since 1994. In October 2005, Lockheed Martin was awarded \$119.4 million toward this effort. This IDIQ contract covered a five-year period and had an estimated value of \$500 million. The team has received additional awards since then.

**Elbit Systems.** In September 2017, Lockheed Martin UK and Elbit Systems UK signed a strategic teaming agreement to partner on the Maritime Electronic Warfare Program (MEWP) for the Royal Navy. The MEWP is a program to upgrade the Royal Navy's electronic warfare capabilities. Delivered in increments, the upgraded system will be fielded on the Royal Navy's frigates, destroyers, and amphibious assault ships, with the program expanding to the wider fleet including submarines in due course.

**Elta.** In September 2000, Elta and Lockheed Martin teamed to develop and market a synthetic aperture radar pod for tactical aircraft. The pod is based on Elta's EL/M-2060P, which is used on Israeli F-16s. The team was looking to fill a requirement for such a pod by U.S. and NATO F-14, F-16, F-15, and F/A-18 operators.

**EURO-ART.** Formed in 1989, the European Advanced Radar Technology GmbH (EURO-ART) consortium – consisting of Lockheed Martin, Thales, and EADS (now Airbus SE) – developed the Counter Battery Radar (COBRA).

**Euro Rocket Systems.** In June 1999, Lockheed Martin and Diehl Munitions Systems established a joint venture, Euro Rocket Systems, to provide advanced MLRS platforms, munitions, and land upgrades to primarily European customers. Euro Rocket Systems offers European-made MLRS rockets, accuracy improvements, M270A1 launcher upgrades, and Diehl AT-2 rockets. It also offers maintenance and overhaul services. Finally, it performs conversions of older MLRS rockets and demilitarizes out-of-date munitions. In June 2001, a Memorandum of Agreement was signed to include MBDA in the venture. Lockheed Martin holds 50 percent of Euro Rocket Systems; Diehl, 25 percent; and MBDA, 25 percent.

**Exechon.** Formed in 2015, Exechon Enterprises is a joint venture company that consists of Abu Dhabi-based Injaz National, Lockheed Martin, and Sweden-based Tecgrant AB. Exechon is an engineering and

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manufacturing "center of excellence" for parallel kinematics machining robots. The company reports that its products "bring a full suite of automated manufacturing options to the aerospace, defense and automotive sectors, as well as other industrial markets."

Website: <http://www.execon.com>

**F-22 Raptor.** Lockheed heads the F-22 Raptor team with partner Boeing.

**FFG(X).** The FFG(X), or Frigate, Guided (Experimental), is a new class of multimission guided-missile frigates for the U.S. Navy. The ships are planned to be a follow-on to the Littoral Combat Ship. In February 2018, the U.S. Navy awarded Lockheed Martin a \$15 million contract to mature its Freedom-variant Littoral Combat Ship design as a part of the Navy's FFG(X) competition. Lockheed Martin teammates include Fincantieri Marinette Marine as its shipbuilder and Gibbs & Cox as its naval architect. Four other competitors were also awarded \$15 million contracts, including Austal with its Frigate concept (based on the Independence class LCS); Huntington Ingalls with the Patrol Frigate (based on the National Security Cutter); General Dynamics and Navantia with the F100; and Fincantieri with the FREMM. Fincantieri was selected as the winner in May 2020.

In May 2019, Lockheed Martin decided not to bid on the FFG(X). Instead, the company will concentrate on providing combat systems and other components for the warship.

In July 2019, the U.S. Navy selected Lockheed Martin as the Combat System Ship Integration & Test agent for the FFG(X) program. The Combat System Ship Integration & Test contract will ensure the overall integration of the combat system elements into the frigate ship design and validate the installation through the completion of waterfront testing. The 10-year contract will consist of one base year and nine option years, and is worth up to \$125 million.

**Future Attack Reconnaissance Aircraft.** Part of the Future Vertical Lift Capability Set 1 effort, the FARA program aims to replace U.S. Army OH-58D scout helicopters currently in service. In April 2019, the U.S. Army awarded five initial design contracts to the AVX/L3 team, Bell, Boeing, Karem Aircraft, and Sikorsky. Three other proposals that did not meet minimum mandatory requirements were rejected. Under the Army's aggressive schedule, the winning design will enter low-rate production in 2028.

In March 2020, the Army selected two contractors to develop competitive prototypes, Bell and Sikorsky. Bell is offering the Bell 360 Invictus, which is based on some of the technologies developed for its 525

Relentless program. Sikorsky is offering its Raider X, a compound coaxial helicopter based on research and testing of its high-speed X2 technology demonstrator and S-97 Raider test aircraft. Flight tests are expected to begin in late 2022 and run through 2023. The engineering and manufacturing development phase will follow in FY24.

Website:

<https://www.lockheedmartin.com/en-us/products/fara-raider-x.html>

**Future Long Range Assault Aircraft.** In March 2020, Bell's "Team Valor" and Sikorsky were selected for the competitive demonstration and risk reduction (CD&RR) effort as part of the U.S. Army's Future Long Range Assault Aircraft (FLRAA) program. Under the \$84 million contract, Bell will deliver a refined V-280 Valor design along with supporting technical documentation.

The competing Sikorsky/Boeing design was awarded \$97 million to refine its SB-1 Defiant design, dubbed Defiant X, which is based on Sikorsky's X2 high-speed technology demonstrator.

The Army is expected to release a request for proposal on FLRAA in late 2021, with a contract award expected in 2022. The winning design is expected to begin replacing UH-60 Black Hawk helicopters in 2030.

This program, which falls under Future Vertical Lift Capability Set 3, is intended to start replacing Army UH-60 Black Hawk helicopters around 2030. The program is being informed by the JMR technology demonstrator effort, which involves the Bell V-280 Valor and Sikorsky/Boeing's SB-1 Defiant.

Website:

<https://www.lockheedmartin.com/en-us/products/flraa-defiant-x.html>

**Gray Wolf.** In December 2017, Lockheed Martin received a \$110 million, five-year Phase 1 contract from the U.S. Air Force Research Laboratory to develop and demonstrate a new low-cost cruise missile called Gray Wolf. The Gray Wolf program seeks to develop low-cost, subsonic cruise missiles that use open architectures and modular design to allow for rapid prototyping and spiral growth capabilities. The AFRL is developing the missiles to feature networked, collaborative behaviors (swarming) to address integrated air defense (IAD) system threats. Northrop Grumman was also awarded a Gray Wolf development contract.

**GridStar Flow.** In January 2020, Lockheed and Oriden LLC, a Mitsubishi Hitachi Power Systems venture, announced a teaming agreement for future energy storage projects using GridStar Flow, Lockheed

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Martin's flow battery technology. This energy storage system is capable of storing six to 12 hours or more of energy and dispatching it as needed.

In December 2019, Lockheed Martin teamed with C Energy to identify and develop large-scale, long-duration energy storage projects using GridStar Flow.

**Ground-Based Strategic Deterrent.** The GBSD program aims to replace the Boeing LGM-30 Minuteman III ICBM around 2030. In August 2016, three competitors were selected to compete: Boeing, Northrop Grumman, and Lockheed Martin. In August 2017, Boeing and Northrop Grumman were awarded \$349.2 million and \$328.6 million technology maturation and risk reduction (TMRR) phase contracts, respectively, to continue their efforts on the GBSD program. The TMRR phase will last approximately three years and will culminate in a weapon system preliminary design.

In July 2019, Boeing announced it would withdraw from the competition. The move left Northrop Grumman as the sole contender for the program. In December 2019, the U.S. Air Force confirmed Northrop Grumman as the contractor for the estimated \$63 billion 20-year program. Northrop Grumman's industry team includes Aerojet Rocketdyne, BRPH, Clark Construction, Collins Aerospace, General Dynamics, Honeywell, L3Harris, Lockheed Martin, Parsons, and Textron Systems.

In February 2020, Bechtel and Kratos Defense and Security Solutions were added to the team. The company says hundreds of other small, medium, and large businesses across the United States are also involved in the effort.

Website: [www.northropgrumman.com/gbsd](http://www.northropgrumman.com/gbsd)

**Hellfire Systems LLC.** Based in Orlando, Florida, this is a joint venture of Boeing and Lockheed Martin to manufacture the HELLFIRE missile, excluding the Longbow variant. Boeing builds all HELLFIRE seekers and several components, while Lockheed Martin acts as systems integrator and is responsible for other missile components.

**H.N. Burns Engineering.** In March 2015, Lockheed Martin and H.N. Burns Engineering Corp agreed to collaborate on technology that enhances the ability of military helicopter pilots to fly in degraded visual environments (DVE). The partnership will combine H.N. Burns' high-resolution imaging laser radar with Lockheed Martin's experience in pilotage and sensor systems.

**HX Competition.** In October 2015, Finland launched its HX program to identify a successor for its F/A-18

Hornets. Finland seeks a multirole jet fighter to introduce into service on a rolling basis as it begins phasing out its Hornets in 2025. Competitors for the requirement include Boeing's F/A-18E/F Super Hornet, Lockheed Martin's F-35 Lightning II, the Eurofighter Typhoon, Dassault Aviation's Rafale, and Saab's Gripen E and the dual-seat Gripen F version. These five contenders submitted initial proposals for the estimated \$13 billion program in February 2019. A test and evaluation event dubbed the HX Challenge was completed in early 2020. Final bids were submitted in April 2021; a decision is set for the end of the year.

**Indian Fighter Competition, Take 3.** In April 2018, India, for the third time, initiated a competition to supply 110 fighters to the Indian Air Force. Competitors will include Boeing F/A-18E/F Block III, Dassault Rafale F3R, Eurofighter Typhoon, Lockheed Martin F-21 (variant of the F-16), United Aircraft Corp MiG-35 and Su-35, and Saab Gripen E. The program stipulates that some 85 percent of the aircraft should be produced in India under that country's "Make in India" initiative.

An earlier procurement attempt was scrapped in 2018, as it did not consider both single- and twin-engine aircraft. Prior to that, the 126 Medium Multi-Role Combat Aircraft (MMRCA) program, which was won by Dassault's Rafale, was canceled in 2015. At that time, the government instead opted to buy 36 Rafales in a government-to-government deal.

**Javelin JV.** Javelin Joint Venture, Orlando, Florida, is the prime contractor for the Javelin man-portable medium anti-tank missile. This joint venture is made up of Raytheon Missile Systems, Tucson, Arizona, and Lockheed Martin Missiles and Fire Control, Orlando.

**Joint Multi-Role/Future Vertical Lift.** In August 2014, Bell Helicopter and a Sikorsky/Boeing team were selected to build helicopters for the U.S. Army's Joint Multi-Role (JMR) Technology Demonstrator (TD) program, beating out AVX Corporation and Karem Aircraft. Sikorsky/Boeing are developing the SB-1 Defiant, an aircraft based on Sikorsky's X2 coaxial proof-of-concept helicopter. Bell, meanwhile, is testing its V-280 Valor tiltrotor. The JMR TD program is the science and technology precursor to the Department of Defense's estimated \$100 billion Future Vertical Lift (FVL) program, which is supposed to see the development of new rotorcraft to replace thousands of various utility and attack helicopters across U.S. military fleets.

The FVL program spans multiple classes of helicopters, or what are being called Capability Sets 1 to 5, ranging from light helicopters to medium- and heavy-lift variants.

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Capability Set 1, dubbed the Future Armed Reconnaissance Aircraft (FARA), will fill the armed scout role for the Army (see entry above).

Capability Set 2 is envisioned as a replacement for the Navy's MH-60R and MH-60S Seahawks.

Capability Set 3, known as the Future Long-Range Assault Aircraft (FLRAA), will replace the Army's Black Hawk helicopters (see entry above).

Capability Set 4 involves a medium-class rotorcraft larger than the Capability Set 3 platform and may be used to replace the V-22.

Capability Set 5 is a heavy rotorcraft intended to complement, and possibly replace, the CH-47F and CH-53K.

**KAI.** In November 2000, Korea Aerospace Industries and Lockheed Martin signed a joint marketing agreement for the T-50 advanced jet trainer (formerly known as the KTX-2) being developed by the two companies. Under the agreement, the companies were to lead marketing efforts in their own countries, while international sales would be handled by a joint effort named T-50 International. In July 1997, Lockheed Martin and Samsung (now part of KAI) joined forces to develop and produce the KTX-2 training aircraft for South Korea, which funded 70 percent of the program's \$2 billion development costs, with Lockheed Martin and Samsung providing the remaining 30 percent.

Lockheed Martin was responsible for development of the aircraft's avionics, flight control system, and wings. In addition, the company provided technical assistance to Samsung. First flight occurred in August 2002. In November 2006, KAI and Lockheed Martin signed an MoU to expand their strategic relationship and jointly study areas of mutual interest. The two partners offered a variant for the USAF T-X program, but lost the competition in 2018 to a Boeing/Saab team.

**Kongsberg.** In February 2007, Lockheed Martin and Kongsberg Defense & Aerospace entered into a joint agreement to market an air-launched version of the Naval Strike Missile. The missile, to be called the Joint Strike Missile, is designed to be carried internally and launched externally from the F-35 Lightning II aircraft. The JSM will build upon the Naval Strike Missile.

**LCS Team.** In May 2004, a team led by Lockheed Martin was awarded a contract to complete the final design of the U.S. Navy's new Littoral Combat Ship (LCS). Dubbed Team Freedom, the group includes shipbuilder Fincantieri Marinette Marine and naval architect firm Gibbs & Cox, as well as other domestic and international companies. In December 2010, the Navy awarded a contract for 10 LCS 1 Freedom class

boats to Lockheed Martin (see **Program Activity** for more details).

**Lockheed Martin Cybersecurity Alliance.** Formed in 2009, this partnership helps customers meet their cybersecurity needs and address future challenges. Alliance members engage in customer-focused scenarios, experiments, and pilot programs that enable them to provide improved, more efficient, and tested services. The alliance companies include APC by Schneider Electric, Cisco, Dell, EMC Corporation and its RSA security division, HP and its ArcSight division, Intel and Intel Security (formerly McAfee), Juniper Networks, Microsoft, NetApp, Radware, Red Hat, Splunk, Symantec, Trustwave, Verizon, and VMware.

**Longbow LLC.** Lockheed Martin and Northrop Grumman formed a joint venture, Longbow LLC, to produce the millimeter-wave Longbow HELLFIRE missile for the AH-64 Apache attack helicopter.

**LongShot.** In February 2021, the U.S. Defense Advanced Research Project Agency Tactical Technology Office awarded Northrop Grumman, Lockheed Martin, and General Atomics contracts to develop an advanced technology weapon concept designed to significantly increase the engagement range and weapon effectiveness of U.S. forces against adversary air threats. DARPA's LongShot UAV program will explore new lethal engagement concepts by leveraging multimodal propulsion weapon systems that can be deployed from existing fighter hardpoints or the internal bay of a bomber.

**Lower Tier Air and Missile Defense Sensor.** In October 2018, competitors Raytheon and Lockheed Martin were selected to continue technology development of the U.S. Army's Lower Tier Air and Missile Defense Sensor program. The LTAMDS program seeks to replace the long-serving, mission-critical Patriot missile defense radar with a next-generation option. This effort was believed completed in September 2019 as the service shifted to a new "sense off" competition to accelerate fielding of a Patriot radar replacement. The Army wants the new sensor in service as soon as 2022, rather than 2027 as called for under the old program schedule.

A LTAMDS trial "sense off" took place in mid-2019, with entries from Raytheon, Lockheed Martin, and Northrop Grumman. Following the test, all three companies submitted bids for the revised LTAMDS program in July 2019.

In October 2019, Raytheon was selected to build the LTAMDS under the Army's Integrated Air and Missile Defense System effort. The initial contract is valued at

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\$384 million for the delivery of six production-representative units by the end of FY22.

**LRSO.** In August 2017, Raytheon and Lockheed Martin each received about \$900 million from the U.S. Air Force for the 54-month technology maturation and risk reduction phase of the program to develop a Long Range Stand Off (LRSO) weapon, a nuclear-capable cruise missile. LRSO is a replacement for the U.S. Air Force's AGM-86 Air Launched Cruise Missile (ALCM) that has been operational since 1986. One contractor will be selected for the EMD phase in 2022. However, in April 2020, the USAF decided to sole source the contract with Raytheon Technologies as the prime contractor.

**Mayhem.** In August 2020, the U.S. Air Force released a solicitation for the Expendable Hypersonic Multi-Mission Air-Breathing Demonstrator (Mayhem) Program. The Mayhem System Demonstrator (MSD) will need to be capable of carrying larger payloads over distances further than current hypersonic capabilities allow. Boeing, Lockheed Martin, and Raytheon Technologies will compete to develop an operational prototype under contracts slated to be awarded in early 2021.

Website: <https://bit.ly/3iJURIW>

**MBDA.** In March 2018, Lockheed Martin and MBDA formed a joint venture to pursue the next-generation TLVS (Taktisches Luftverteidigungssystem) integrated air and missile defense system for the German Bundeswehr. The joint venture, dubbed TLVS GmbH, is held 60 percent by MBDA and 40 percent by Lockheed Martin. The venture is expected to become the prime contractor for the new system; the contract is currently being negotiated with Germany's procurement office. The TLVS program is based on the trilateral Medium Extended Air Defense System (MEADS) program developed for Germany, Italy, and the United States. The company will also have operations in Dallas, Texas; Huntsville, Alabama; and Syracuse, New York, as well as locations in Ulm and Koblenz, Germany. Rheinmetall and Raytheon are offering a competing concept. The firms submitted their proposal in June 2019.

However, in August 2020, the team submitted an updated proposal to the German Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBw). Designed to replace Germany's aging, sectored Patriot systems designed in the late 1960s, the 2020 TLVS proposal provides protection from a broader threat spectrum with two mission-specific effectors, significantly enhanced sensor capabilities for long range engagements, and a new communications and Battle Management system to

support enhanced interoperability, data fusion, and cyber resilience.

In May 2013, Lockheed Martin and MBDA signed an MoU to jointly explore the naval weapons market. The agreement could lead to offerings of Lockheed Martin's weapons launchers with MBDA's new Sea Ceptor ship-defense missile system. A demonstration to launch MBDA's Common Anti-Air Modular Missile from Lockheed's Mk 41 vertical launcher is planned.

**MEADS International.** This consortium, made up of Lockheed Martin and MBDA, was formed to develop and produce the Medium Extended Air Defense System. This venture is headquartered in Orlando, Florida. MEADS International was awarded the MEADS development contract in May 1999. In June 2005, MEADS International formally signed a contract to design and develop the MEADS.

In 2011, the United States decided not to procure MEADS. Washington claimed the program was too far behind schedule. Germany followed suit shortly thereafter. However, in June 2015, Germany reversed course and selected the MEADS (over Raytheon's Patriot system) to form the base system for the country's TLVS.

Website: <https://www.mbda-systems.com/about-us/mbda-worldwide/meads-international-inc/>

**Mitsubishi Heavy Industries.** The F-2 program is a joint Japan/United States effort for development and production of a new support fighter for the Japan Ministry of Defense. The F-2 is based on the design of the F-16C/D aircraft and will replace Japan's Mitsubishi F-1. The program was completely funded by Japan. Mitsubishi Heavy Industries is the prime contractor, and Lockheed Martin is the principal U.S. subcontractor. The program is a commercial arrangement, with overall joint Japan/U.S. government oversight. Lockheed Martin's participation in production of the F-2 officially began in September 1996.

In April 2020, the Japanese Ministry of Defense stood up a dedicated division to support indigenous development of the F-X fighter (sometimes called the Next Generation Fighter [NGF]), thus officially kicking off project development. Defense Ministry conceptual photos indicate a very large platform with a larger weight than the F-22 Raptor. The next-generation fighter – tentatively designated the F-3 – aims to replace its aging inventory of Mitsubishi F-2A multirole combat aircraft around the early 2030s. As Japan seeks to retain and grow its industrial aviation know-how through the F-X fighter project, Mitsubishi Heavy Industries will likely play a leading role. In order to mitigate technological risk, Japan remains open to exploring



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potential collaboration avenues with foreign partners. A U.S. partner is considered the most likely due to the alliance between the two countries. Contenders probably include Lockheed Martin, Boeing, Northrop Grumman, and potentially some collaboration with U.K.-based BAE Systems.

**MLS Corporation.** In August 2002, Lockheed Martin, Mitsubishi Electric Corporation, SAMPA Kogyo KK, and Mitsubishi Corporation formed a joint venture company that serves the emerging combat system engineering and lifetime support requirements of the Japan Maritime Self-Defense Force (JMSDF). The joint venture company, MLS Corporation, represents a full-service partnership arrangement between industry and government and leverages Japanese and U.S. industry expertise in life-cycle support and integration services to benefit the JMSDF. Through the MLS partnership, Lockheed Martin is transferring its models to Japan for application across JMSDF surface ship programs.

**MQ-Next.** In June 2020, the U.S. Air Force issued a request for information on designs for a replacement of the MQ-9A Reaper armed reconnaissance drone. Lockheed Martin, General Atomics, and Northrop Grumman are the first to have responded, each with a proposed a family of systems to replace the MQ-9A. Other potential bidders will likely include Boeing and Kratos. The service would like to begin acquiring the new system beginning in 2030.

**Multi-Band, Multi-Mission Prototype.** In July 2019, Lockheed Martin, Ball Aerospace, and Kratos Defense & Security Solutions were awarded a \$7.2 million prototype agreement by the Defense Innovation Unit to develop a new Multi-Band, Multi-Mission (MBMM) prototype phased array as part of a broader initiative to modernize the Air Force Satellite Control Network. MBMM enables multiple satellites to simultaneously connect with a single array antenna over multiple frequencies.

**Navantia.** In December 2019, Lockheed Martin signed a contract with Navantia to equip five new F-110 multimission frigates and their land-based test site (Centro de Integración de Sistemas en Tierra or CIST) – with Lockheed Martin's first naval installation of its solid state S-band radar. The new F-110 frigates will be built by Spain's national shipbuilder, Navantia. Recently designated by the U.S. Government as SPY-7(V)1, this technology is derived from current radar programs. Variants of the SPY-7 radar will also be utilized on programs with Japan's Aegis Ashore, the Royal Canadian Navy for the Canadian Surface Combatant program, and the U.S. Government.

In October 2017, Navantia and Lockheed Martin signed a renewed Memorandum of Agreement to collaborate on exploring mutually beneficial new business opportunities in the areas of surface ships and naval combat systems. The two companies have successfully partnered for 20 years to supply the Spanish Navy with the AEGIS Combat System for the F-100 frigates.

**Next Generation Interceptor.** The Next Generation Interceptor (NGI) is an element of the U.S. Missile Defense Agency's (MDA) Ground-based Midcourse Defense (GMD) system, which is the primary U.S. missile defense system used to defend the country from long-range ballistic missile attacks. The NGI replaces the Redesignated Kill Vehicle Boeing and Raytheon were developing; that program was canceled in August 2019 due to technical issues.

In March 2021, the MDA selected Lockheed Martin and partner Aerojet Rocketdyne along with a competitor teaming of Northrop Grumman/Raytheon Missiles & Defense to develop and flight-test a NGI. Lockheed Martin's award was \$3.6 billion, while Northrop Grumman's contract was valued at \$3.9 billion. With an estimated maximum value of \$1.6 billion through fiscal year 2022, this contract award is structured to carry two designs into the technology development and risk reduction phase of the acquisition program to reduce technical and schedule risk.

A competing offer from a third team led by Boeing was not selected to move forward.

**Ocean Aero.** In September 2017, Lockheed Martin Ventures made a strategic investment of an undisclosed amount in Ocean Aero, developer of the Submaran unmanned maritime vehicle. Lockheed Martin Ventures is Ocean Aero's second significant investor, joining marine instrumentation leader Teledyne Technologies, which invested in Ocean Aero in 2014.

**PGSUS LLC.** Formed in 1996, Precision Guided Systems United States is a joint venture between Lockheed Martin and Rafael that markets the AGM-142 Popeye family of standoff missiles. Each company owns a 50 percent stake in the Florida-based company.

**Rafael/Lockheed Martin Team.** In May 2019, Rafael and Lockheed Martin teamed to jointly develop, manufacture, and market Smart, Precise Impact and Cost-Effective (SPICE) guidance kits for the U.S. market.

In July 2018, Lockheed Martin and Rafael signed an MoU to evaluate potential markets and customer requirements for SPICE kits.

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**Rheinmetall.** In January 2021, Sikorsky and the members of the German CH-53K industry team renewed their teaming agreement following the cancellation of the German Schwerer Transporthubschrauber (STH) helicopter program in 2020. The teaming is counting on a relaunch of the STH effort in the near future (see entry below).

Sikorsky formed the German industrial team early on and ensured that the expertise of local partners was incorporated directly into any potential bid. The German CH-53K team is led by Rheinmetall. Other team members include Autoflug, Collins Aerospace, Hensoldt, HYDRO Systems, MTU Aero Engines, Rohde & Schwarz, Vincorion, ZFL, and Reiser.

**Roketsan.** In October 2014, Roketsan and Lockheed Martin signed a teaming agreement for collaboration on the SOM-J, a new-generation missile for the F-35 Lightning II. The SOM system is an autonomous, long-range, low-observable, all-weather, precision air-to-surface cruise missile. The SOM-J variant is tailored for internal carriage on the F-35 aircraft. The companies will jointly develop, produce, market, and support the SOM-J for internal carriage on the F-35 or external carriage on other aircraft.

**Rotary Aircraft Manufacturing Saudi Arabia.** Formed in early 2017, this is a joint venture between Lockheed Martin and TAQNIA Aeronautics. RAMSA handles the local production of Black Hawk helicopters in Saudi Arabia.

**S-97 Raider Team.** In January 2012, Sikorsky selected 35 companies to join its team assembling two prototype S-97 Raider helicopters for evaluation by the U.S. military. Self-funded by Sikorsky and its team members, the Raider program will demonstrate the military applications of Sikorsky's X2 rotorcraft design, which in 2010 proved its capability to double the cruise speed of conventional helicopters. The Raider helicopter is capable of being developed into a unique multimission configuration that is able to carry six troops and external weapons. The coaxial counter-rotating main rotors and pusher propeller were expected to provide cruise speeds up to 240 knots (276 mph). Final assembly of the prototype began in September 2013. The Raider made its first flight in May 2015.

Website: <https://www.lockheedmartin.com/en-us/products/s-97-raider-helicopter.html>

**Saab.** In July 2017, Lockheed Martin and Saab partnered to deliver a next-generation Tactical Engagement Simulation (TES) system as part of the U.S. Army's live training modernization effort. Under a \$288 million contract, the partners will provide training

kits of laser detectors and transmitters to equip military trucks, training weapons, and armored vehicles. The new Instrumentable Multiple Integrated Laser Engagement System (I-MILES) Vehicle Tactical Engagement Simulation System (VTESS) program will allow seamless integration with the Army's existing Multiple Integrated Laser Engagement Systems.

**Schwerer Transporthubschrauber (STH).** Announced in December 2017, this is a German program to acquire a new heavy-lift helicopter to replace CH-53G models currently in service. A Rheinmetall/Sikorsky team is offering the CH-53K King Stallion against a rival bid from Boeing with the CH-47F Chinook. The program, which will replace 45 to 60 helicopters, is valued at about EUR4 billion (\$4.72 billion). In October 2019, Rheinmetall and Sikorsky announced plans to construct a CH-53K Helicopter Logistics and Fleet Management Center at Leipzig/Halle Airport should their bid win the competition. In January 2020, Sikorsky and Rheinmetall submitted their proposal.

However, in September 2020, the German Defense Ministry opted to scrap the competition due to cost concerns. Germany does aim to replace the previous model CH-53G, and the project is expected to be relaunched with changed specifications.

**Shanghai Sikorsky Aircraft Company (SSAC).** In April 2003, SSAC received business license approval from the Chinese authorities to commence operations as a light helicopter company. SSAC is an equity joint venture between Sikorsky Aircraft Corporation and Shanghai Little Eagle Science and Technology Company. In July 2004, ground was broken for SSAC's new facility. Located in Gaodong, Pudong New District, this facility is the base of operations for the new helicopter company.

Website: <http://www.sikorsky.cn>

**Skyborg.** This is a U.S. Air Force program to develop an artificially intelligent software, and related programs and hardware, to control autonomous unmanned air vehicles (UAVs). In 2020, the USAF placed 13 development contracts with Boeing, General Atomics Aeronautical Systems, Kratos Unmanned Aerial Systems, Northrop Grumman, AeroVironment, Autodyne, BAE System Controls, Blue Force Technologies, Fregata System, Lockheed Martin Aeronautics, NextGen Aeronautics, Sierra Technical Services, and Wichita State University. These contractors will compete for up to \$400 million in Skyborg contracts.

In December 2020, three contractors were selected to build Skyborg prototypes: Boeing, which received a

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\$25.7 million contract; General Atomics Aeronautical Systems, \$14.3 million; and Kratos Unmanned Aerial Systems, \$37.8 million. Prototypes will begin testing in mid-2021 according to the current schedule.

Website:

<https://afresearchlab.com/technology/vanguards/success-stories/skyborg>

**Swiss Fighter Competition.** Under Switzerland's Air 2030 initiative, the country will select aircraft to replace aging F-5 and F/A-18C/Ds currently in service. The program is worth about \$8.45 billion for a fleet of 30 or 40 planes. Switzerland has allocated \$5.85 billion for the program.

In mid-2019, the Swiss government split its Air 2030 into two – one focused on fighters and the other on a surface-to-air defense system. The split is intended to allow voters to decide on the purchases in a possible referendum. In October 2020, the fighter referendum passed, allowing a procurement to move forward.

Four competitors remain in the completion. These include the Boeing F/A-18E/F Super Hornet, Dassault Rafale, Eurofighter Typhoon, and the Lockheed Martin F-35A. In June 2019, the Gripen was pulled from the competition following a formal recommendation from the Swiss procurement agency. A winner is expected to be selected in the summer of 2021.

This is the second competition to fulfill a Swiss requirement. Previously, the Saab Gripen E was selected in 2012 to replace the F-5. However, this decision was negated following a Swiss public referendum in 2014 that voted down the purchase.

**TADSS.** In December 2015, Lockheed Martin added Cubic Global Defense and PULAU Corporation to its team competing for the U.S. Army Training Aids, Devices, Simulators, and Simulations (TADSS) Maintenance Program (ATMP). Managed by the U.S. Army Program Executive Office Simulation, Training and Instrumentation, ATMP will provide maintenance, life-cycle management, and sustainment of more than 250,000 fielded TADSS and ranges in support of U.S. Army training worldwide. The team won the \$3.5 billion TADSS contract in March 2018.

**Tata Aerospace Systems Ltd.** Formed in 2009, this is a joint venture between India's Tata Advanced Systems Ltd (TASL) and Sikorsky. Based in Hyderabad, India, the group manufactures cabins for the Sikorsky S-92 helicopter in export markets. The cabins from India are shipped to the U.S. for final assembly, and the completed helicopters are delivered to customers globally.

In April 2018, Tata Lockheed Martin Aerostructures Ltd (TLMAL), a joint venture between TASL and Lockheed Martin, inaugurated a metal-to-metal bonding facility at Adibatla, Hyderabad, India. The new 4,700-square-meter metal-to-metal bonding facility adds a new capability to the Indian aerospace industry and enables TASL to use this technology across manufacturing programs for complex aerostructures manufacturing and increased indigenization, which directly supports the Indian government's "Make in India" initiative.

In September 2018, Lockheed Martin signed an agreement covering the production of F-16 wings at TASL. The firms are partnered in offering the aircraft to the Indian Air Force for a future requirement.

In February 2019, TLMAL delivered its 100th C-130J Super Hercules empennage. Empennage assemblies produced by TLMAL include the aircraft's horizontal and vertical stabilizers along with leading edges and tip assemblies. The TLMAL team also previously manufactured sets of C-130J center wing box components.

**Team Apache Systems.** Boeing and Lockheed Martin are major members of Team Apache Systems, which focuses on development and production of the Arrowhead advanced forward-looking infrared (FLIR) system. The Arrowhead is a major upgrade to the Apache's current Target Acquisition Designation Sight / Pilot Night Vision Sensor (TADS/PNVS) system.

**Team Dynetics.** In August 2018, the U.S. Army awarded Dynetics and Lockheed Martin and its partners a \$10 million contract to continue development for the next phase of the High Energy Laser Tactical Vehicle Demonstrator (HEL TVD), a 100-kW class laser weapon system. Dynetics is the prime. Lockheed Martin is the laser weapon system integrator and will provide the laser weapon subsystem, optimizing the performance of the laser module, power and cooling systems, and operator interfaces. In May 2019, Dynetics was awarded a \$130 million contract to build and test the HEL TVD.

**Team K-MAX.** In March 2007, Kaman signed a teaming agreement with Lockheed Martin to develop and market manned and unmanned versions of the K-MAX for government use. Lockheed Martin agreed to serve as the prime contractor and systems integrator in pursuit of individual programs. Kaman designed the K-MAX platform, and Lockheed Martin designed the helicopter's mission management and control systems to provide the K-MAX with flight autonomy in remote environments and over long distances.

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In August 2009, Kaman Aerospace received a contract from the U.S. Marine Corps on behalf of Team K-MAX to demonstrate the ability of the unmanned K-MAX helicopter to deliver cargo to troops in extreme environments and at high altitudes. In December 2010, the U.S. Navy awarded Lockheed Martin a \$45.8 million contract for unmanned K-MAX helicopters to perform in a U.S. Marine Corps evaluation of unmanned cargo resupply. The Navy intended to field a cargo UAS to augment current Marine Corps ground and air logistics operations in Afghanistan. The system deployed for an originally scheduled six-month tour in December 2011. The K-MAX reportedly outperformed expectations while serving and ultimately returned from deployment in May 2014.

In 2019, the Marines retrofitted two K-MAX helicopters with additional autonomous capabilities as part of its experimentation with the aircraft. The service is looking to make the platform even more autonomous and cut down the need for a human operator.

The partners are now pursuing commercial opportunities for the unmanned K-MAX, such as firefighting, forestry, and oil & gas applications. In November 2016, the partners completed a fire suppression and search-and-rescue demonstration with the K-MAX helicopter and the Sikorsky Autonomy Research Aircraft (SARA).

**Terran Orbital.** In June 2017, Lockheed Martin Ventures made an undisclosed investment in nanosatellite specialist Terran Orbital. Lockheed Martin has partnered with Terran in the past on Department of Defense and NASA missions.

**Thales.** In April 2021, Lockheed Martin and Thales Australia finalized a teaming agreement advancing the delivery of an Australian guided weapons manufacturing capability in support of a sovereign national guided weapons enterprise. The agreement will see Lockheed Martin and Thales Australia cooperate in the design, development, and production of Lockheed Martin's Long Range Anti-Ship Missile – Surface Launch (LRASM SL) variant, with a specific focus on booster and rocket motor technologies.

**Thales Alenia Space.** In December 2008, Lockheed Martin and Thales Alenia Space formed a strategic partnership to jointly develop a new family of space-based remote sensing systems for customers worldwide. The joint business agreement leverages each company's resources, programs, and customer partnerships in a way that allows Lockheed Martin Space Systems Company and Thales Alenia Space to expand their respective remote sensing product areas and businesses. The partnership would initially combine the experience and capabilities of each company to offer new highly

responsive and agile space radar solutions for a variety of customers. The agreement is based on a framework the two companies established in 2007 and was expanded as part of this new phase of development.

**ThalesRaytheonSystems.** In July 2018, Lockheed Martin and ThalesRaytheonSystems teamed to provide NATO with a territorial ballistic missile defense (BMD) command and control (C2) capability. ThalesRaytheonSystems will be the prime contractor and system integrator for the defense solution. The program will focus on the upgrade, test, and integration of NATO's C2 systems and underlying communication network to enable effective information exchanges between various NATO and national missile defense systems.

**Turkish Aerospace Industries.** In June 2016, Turkish Aerospace Industries signed a \$3.5 billion contract with Sikorsky to begin production of 109 T-70 rotorcraft destined for the country's armed services and government agencies. The T-70 is a locally built variant of the PZL Mielec S-70i export Black Hawk. The helicopters are being built and procured under the Turkish Utility Helicopter Program (TUHP). TAI will build and deliver a total of 300 T-70 helicopters (109 baseline plus 191 options) to six Turkish agencies: the Land Forces, Air Force, Gendarmerie, Special Forces, National Police, and Directorate General of Forestry. The first Turkish-built T-70 aircraft will be certified and qualified for delivery to the Turkish government in 2021. Deliveries will immediately follow and run through 2026.

**U.K.'s New Medium Helicopter (NMH).** In March 2021, the U.K.'s Defence Command Paper revealed requirements for a new medium-lift helicopter that will enable a consolidation of the disparate fleet of medium-lift helicopters from four platform types to one, including the replacement of a fleet of 23 Pumas. The RAF plans to retire its Pumas in 2025. Competitors may include Leonardo's AW149, Airbus' H175, Sikorsky's UH-60, NH Industries NH90, Boeing's Grey Wolf, and Bell's 525 Relentless.

**UKSAR2G.** The Second Generation Search & Rescue Aviation Programme (UKSAR2G) is an upcoming program to address the U.K. Maritime Coastguard Agency's (MCA) SAR services. Since 2013, the UKSAR helicopter service has been delivered by Bristow Helicopters, with a mix of Leonardo Helicopters AW189s and Sikorsky S-92s at ten coastal bases. Competitors are expected to include Airbus, Leonardo, and Sikorsky. A request for proposals is expected in late 2021, with a contract awarded in late 2022.

**Lockheed Martin**

**United Launch Alliance.** In December 2006, Boeing and Lockheed Martin completed the transaction combining their expendable launch vehicle businesses, forming the joint venture United Launch Alliance LLC. ULA combines the production, engineering, test, and launch operations associated with U.S. government launches of Boeing, Delta, and Lockheed Martin Atlas rockets. The proposed joint venture was first announced in May 2005. ULA is a 50-50 joint venture between the two firms. ULA is headquartered in Denver, where most engineering and administrative activities were consolidated. Major assembly and integration operations are located primarily at Delta's manufacturing and assembly facility in Decatur, Alabama. In September 2015, Aerojet made a \$2 billion offer to acquire ULA, but Lockheed Martin and Boeing rejected the offer.

Website: <https://www.ulalaunch.com/>

**Universal Synaptics.** In December 2018, Lockheed Martin and Universal Synaptics Corporation signed an agreement to help the U.S. Department of Defense (DoD) tackle an issue known as intermittent fault anomaly. A new automated testing technology, developed by Universal Synaptics, called Intermittent

Fault Detection discovers random fault anomalies in multidomain platform electronics as well as wiring harnesses. Together, the team will identify solutions for the DoD with the Intermittent Fault Detection & Isolation System 2.0 (IFDIS2), the Voyager Intermittent Fault Detector (VIFD), and the associated Interface and Application (IA) solutions. This system is used to detect intermittent faults in nearly any piece of electronic equipment or wiring on any platform, including F-22, F-16, F-35, F/A-18, and rotary platforms such as the UH-60, as well as land and sea platforms.

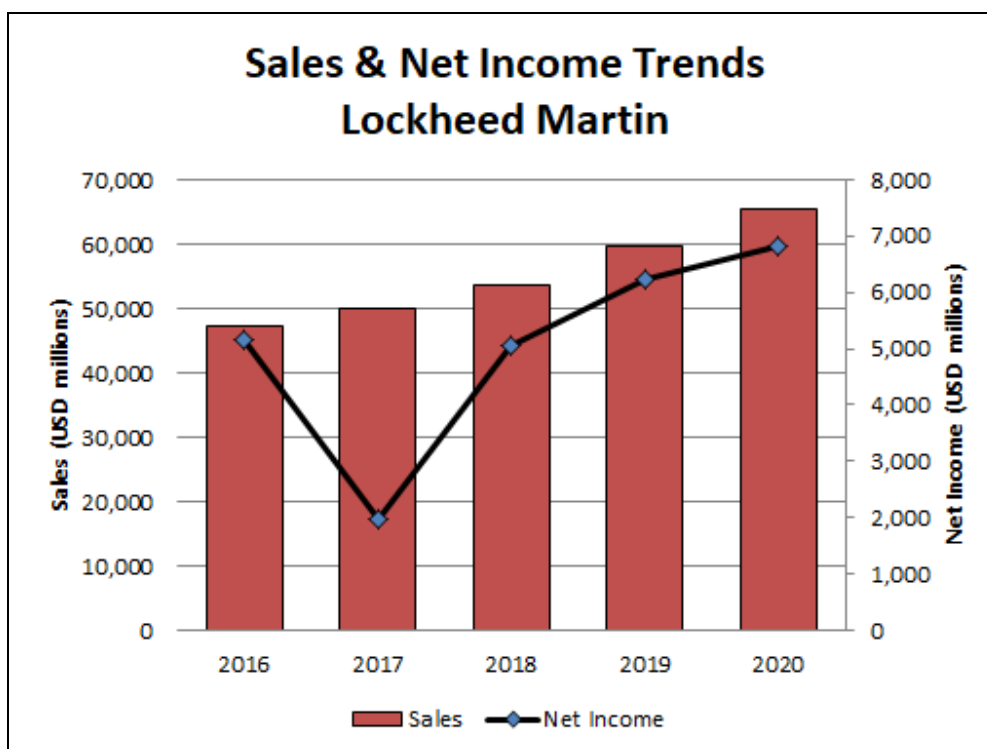
**Weibel Scientific.** In August 2015, Lockheed Martin and Weibel Scientific AS entered a partnership to apply Weibel's legacy in radar systems to BMD by creating the Gap-Filling Tracking Radar (GFTR). The partnership is part of an industrial cooperation agreement reached between Lockheed Martin, Weibel, and the Danish Business Authority following the Royal Danish Air Force's acquisition of nine U.S. Navy MH-60R Seahawk helicopters. The work will be completed at Weibel Scientific facilities in Denmark and the AEGIS BMD development site in Moorestown, New Jersey.

## Financial Results/Corporate Statistics

For 2020, Lockheed Martin reported net sales of \$65.4 billion, up 9 percent compared to \$59.8 billion in 2019. Net earnings from continuing operations in 2020 were \$6.8 billion, compared to \$6.2 billion in 2019. Earnings from continuing operations in 2017 included a net one-time charge of \$1.9 billion, substantially all of which was non-cash, primarily related to the estimated impacts of the Tax Cuts and Jobs Act. This charge, along with the company's annual remeasurement adjustment related to post-retirement benefit plans of \$1.4 billion, also resulted in a deficit in shareholder equity. Results have been restated to the company's current presentation.

<b>Lockheed Martin (NYSE: LMT)</b>					
(USD millions)	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Net Sales	47,290	49,960	53,762	59,812	65,398
Net Income	5,173	1,963	5,046	6,230	6,833
Sales to Gov't	33,470	35,223	37,633	42,467	48,395
Percent Gov't Sales	71%	69%	70%	71%	74%
Percent DoD Sales	59%	58%	60%	61%	64%
F-35 JSF Sales	23%	25%	27%	27%	28%
R&D Expenditures	988	1,200	1,300	1,300	1,300
Backlog	103,458	105,493	130,468	143,981	147,131
Total Debt	14,282	14,263	14,104	12,654	12,169
Shareholder Equity	1,477	-776	1,449	3,171	6,038
Debt-to-Equity Ratio	9.66	-18.38	9.73	3.99	2.02
Employees	97,000	100,000	105,000	110,000	114,000

## Lockheed Martin



### Industry Segments

Summary operating results for each of Lockheed Martin's current business segments were as follows.

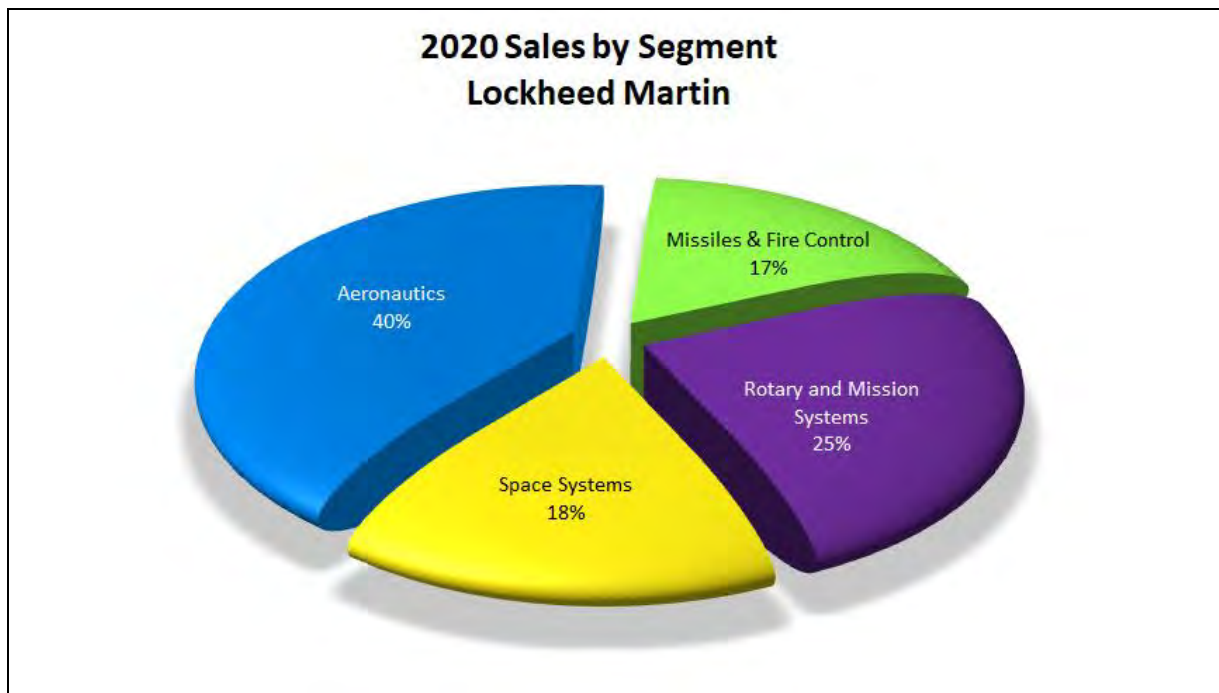
SALES		2016	2017	2018	2019	2020
(USD millions)						
Aeronautics		17,293	19,410	21,242	23,693	26,266
Missiles and Fire Control		6,789	7,282	8,462	10,131	11,257
Rotary and Mission Systems		13,595	13,663	14,250	15,128	15,995
Space Systems		9,613	9,605	9,808	10,860	11,880
<b>TOTAL</b>		<b>47,290</b>	<b>49,960</b>	<b>53,762</b>	<b>59,812</b>	<b>65,398</b>
OPERATING INCOME		2016	2017	2018	2019	2020
(USD millions)						
Aeronautics		1,845	2,176	2,272	2,521	2,842
Missiles and Fire Control		1,004	1,034	1,248	1,441	1,545
Rotary and Mission Systems		845	902	1,302	1,421	1,615
Space Systems		1,288	980	1,055	1,191	1,149
<b>TOTAL</b>		<b>4,982</b>	<b>5,092</b>	<b>5,877</b>	<b>6,574</b>	<b>7,151</b>

**Lockheed Martin****Segment Details**

A breakdown of key financial data on Lockheed Martin's major business segments for the past four years follows. The large jump in backlog for the Rotary and Mission Systems segment was due to the acquisition of Sikorsky in 2015.

<b>AERONAUTICS</b>		<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
(USD millions)						
Net Sales		17,293	19,410	21,242	23,693	26,266
U.S. Government		11,265	12,609	13,321	14,776	18,175
International		5,825	6,641	7,735	8,733	8,012
U.S. Commercial and Other		203	160	186	184	79
F-35 JSF percent of total corporate sales		23%	25%	27%	27%	28%
F-35 JSF percent of Aeronautics sales (approx.)		62%	64%	68%	69%	70%
Operating Income		1,845	2,176	2,272	2,521	2,842
Backlog		34,999	35,692	55,601	55,636	56,551
<b>MISSILES AND FIRE CONTROL</b>		<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
(USD millions)						
Net Sales		6,789	7,282	8,462	10,131	11,257
U.S. Government		4,304	4,467	6,088	7,524	8,404
International		2,344	2,672	2,190	2,465	2,842
U.S. Commercial and Other		141	143	184	142	11
Operating Income		1,004	1,034	1,248	1,441	1,545
Backlog		14,204	17,729	21,363	25,796	29,183
<b>ROTARY AND MISSION SYSTEMS</b>		<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
(USD millions)						
Net Sales		13,595	13,663	14,250	15,128	15,995
U.S. Government		9,350	9,715	10,083	10,803	11,596
International		3,791	3,575	3,693	3,822	3,986
U.S. Commercial and Other		454	373	474	503	413
Operating Income		845	902	1,302	1,421	1,615
Backlog		29,029	30,030	31,320	34,296	36,249
<b>SPACE SYSTEMS</b>		<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
(USD millions)						
Net Sales		9,613	9,605	9,808	10,860	11,880
U.S. Government		8,516	8,088	8,224	9,322	10,293
International		719	1,446	1,538	1,511	1,546
U.S. Commercial and Other		378	71	46	27	41
Operating Income		1,288	980	1,055	1,191	1,149
Backlog		25,226	22,042	22,184	28,253	25,148

## Lockheed Martin



### Aircraft Orders and Deliveries

Details of Lockheed Martin's major aircraft deliveries are as follows.

Aircraft Deliveries	2016	2017	2018	2019	2020
F-35	46	66	91	134	120
C-130J	24	26	25	28	22
F-16	12	8	0	0	0
C-5M Modernization	9	7	0	0	0
Aircraft Backlog	2016	2017	2018	2019	2020
F-35	173	235	396	374	356
C-130J	88	64	78	99	87
F-16	8	0	0	30*	128*
C-5M Modernization	11	4	0	0	0

\* In 2020, the U.S. Government awarded contracts for new production F-16 Block 70/72 aircraft for Taiwan (66 aircraft) and Bulgaria (8 aircraft). In June 2018, Lockheed Martin received a contract for the sale of 16 new production Block 70 F-16 aircraft for the Royal Bahraini Air Force; and in December 2018, Slovakia signed a Letter of Offer and Acceptance (LOA) to procure 14 new-production F-16 Block 70/72 aircraft.

### Major Competitors

Lockheed Martin's broad portfolio of products and services competes against the products and services of other large aerospace, defense, and information technology companies, as well as numerous smaller competitors. Some of the firm's most notable competitors include units of Airbus, Boeing, BAE Systems, Dassault, General Dynamics, Northrop Grumman, Leonardo, Rockwell Collins, Saab, Thales, and Raytheon.

In the helicopter market, Sikorsky faces competition from Boeing, Bell Helicopter Textron, Airbus Helicopters, Russian Helicopters, and Leonardo Helicopters.



**Lockheed Martin****Strategic Outlook**

Despite a global pandemic, it was pretty much business as usual at the world's largest defense contractor. As the need for a nation's defense never takes a pause, Lockheed Martin was declared an essential business and operated throughout the crisis, albeit with some slowdowns.

With tensions high around the globe, government defense budgets remained stable. Not only that, but the spending added financial stimulus to firms to counter some of the economic impacts of the virus. In the near term, spending will likely remain flat, but further out, defense budgets could be cut, especially in the U.S., as the government seeks to pay down the debt taken on during the COVID-19 induced economic downturn.

That said, Lockheed Martin had a solid 2020, with net sales up 9 percent to \$65.4 billion, compared to \$59.8 billion in 2019. Net earnings also rose to \$6.8 billion, compared to \$6.2 billion in 2019.

Nonetheless, the coronavirus pandemic has disrupted Lockheed Martin's aeronautics business, as supply chain disruptions have slowed production. These issues slowed production of the company's premiere program, the F-35, which accounts for some 28 percent of sales.

The storied F35 program has cost tens of billions of dollars to develop, and it was set to enter full-rate production in 2020 for what is expected to be a long production run for the U.S. and partner nations. Over the 50-plus years that the aircraft is expected to fly, the program will cost an impressive \$1.5 trillion, according to a U.S. Department of Defense Selected Acquisition Report (SAR).

To meet this ongoing demand, the company has embarked on an aggressive production ramp-up, which saw yearly output hit triple digits in 2019. Prior to the crisis, Lockheed Martin planned to reach its planned full production rate of approximately 160 F-35s annually in 2023. While the Fort Worth facility is reportedly at full operations, COVID-related supply chain issues saw production drop to 120 aircraft for 2020, down from an anticipated 140.

In addition, the pandemic likely impacted the program's full-rate production decision. Simulation testing slipped, forcing the Pentagon to delay approval until the data is in. This will push the full-rate production decision, known as Milestone C, to later in 2021. While the aircraft is already being produced in quantity, this milestone is seen as a key sign of the program's maturity and is needed for Congress to authorize multiyear procurement contracts.

Despite the near-term difficulties, the F-35 program will define the company for decades to come, much as the F-16 did in years past.

Moreover, that long-running program has received a second wind. Production of the F-16 ended in late 2017, and the line was put on hiatus while it shifted from Fort Worth, Texas, to Greenville, South Carolina, as it awaited orders. Subsequently, Lockheed Martin secured a new order in June 2018 when Bahrain ordered 16 F-16V Block 70 aircraft. Slovakia followed with a 14-aircraft order in July 2018. In July 2019, the Bulgarian Council of Ministers approved draft agreements in July 2019 covering eight F-16Vs in a deal worth \$1.256 billion. In August 2019, the Trump administration approved a sale of 66 new F-16Vs to Taiwan in a deal worth \$8.1 billion. With a bevy of new orders in hand, production of the F-16 is expected to resume in 2022 (2021 prior to COVID-19), with production running throughout the decade.

While the rotorcraft market has been suffering of late, Sikorsky's long-term potential in the world rotorcraft industry is substantial. Re-equipment cycles are coming to an end in the U.S. and much of Europe. The militaries in these countries have largely filled, or are well on their way to filling, their current modernization needs. With a solid business foundation based on the production of H-60 Black Hawks and Seahawks for the U.S. armed forces and foreign customers, Sikorsky is the leading Western manufacturer of military rotorcraft and is expected to remain so for at least the next 15 years. Furthermore, MRO services for these fleets will be another solid source of revenue in the years ahead.

The company is actively involved in next-gen helicopter programs under the U.S. military's Future Vertical Lift (FVL) program. The big prize in this multiprogram effort will be the Future Long-Range Assault Aircraft (FLRAA). Slated to replace the U.S. Army's UH-60M Black Hawks, and potentially other helicopter models across the U.S. services, the fiercely contested FLRAA rotorcraft will likely garner hundreds of orders domestically and be a major competitor on the export market as well. The initial operating capability of the FARA is planned for 2028.

In the commercial sector, demand for medium/heavy rotorcraft has been moribund for several years due to ongoing weakness in the offshore oil and gas industry. Operators in this segment are the primary market for heavy helicopters, and many of the major operators in this segment had already restructured under financial

## Lockheed Martin

pressure even before the COVID-19 pandemic added to the segment's woes.

In the space and missile sector, the company wrapped up 2020 with the announcement of the acquisition of a key supplier, Aerojet Rocketdyne. The \$4.4 billion acquisition provides Lockheed Martin with the opportunity to integrate Aerojet Rocketdyne's propulsion systems more effectively into its products, generate cost and revenue synergies, and improve efficiencies in Aerojet Rocketdyne's production operations.

The purchase is seen as key in helping Lockheed Martin grow its space systems, missiles, and hypersonic programs. The deal mirrors an earlier one by competitor Northrop Grumman, which bolstered its propulsion activities in 2018 with its purchase of Orbital ATK.

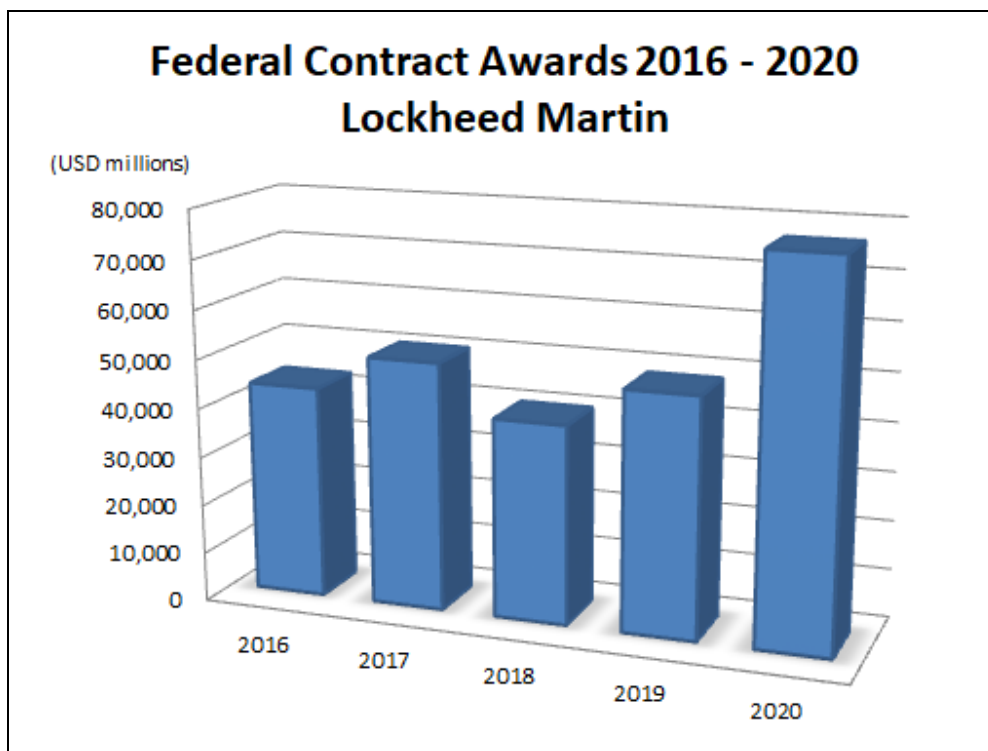
The deal is expected to close in mid-2021, though there has been some pushback. Raytheon Technologies has said it will challenge the deal with the U.S. government, saying it would stifle competition in the missile market. With the precedent already established by the Northrop Grumman/Orbital merger, the Lockheed/Aerojet tie-up is expected to proceed.

Looking ahead, ongoing regional turmoil in the Middle East, Europe, and Asia will continue to drive the need for a substantial level of defense spending. Further, international sales will also expand, driven by fears of Russia and regional pressures from China. Lockheed Martin will benefit as countries seek to improve their militaries in the face of such contemporary threats, global pandemics notwithstanding.

## Prime Award Summary

The following table and chart show the dollar volume of federal prime contracts awarded from 2016 through 2020, and the top 100 rank of the company in terms of federal contracts for each of the five years. For more information, refer to Appendix I, "Recipients of Federal Contract Awards."

Lockheed Martin	2016	2017	2018	2019	2020
(USD millions)					
Rank	1	1	1	1	1
<b>Total Federal Awards</b>	<b>43,399</b>	<b>50,696</b>	<b>40,553</b>	<b>48,666</b>	<b>76,833</b>



Source: Federal Procurement Data System - Next Generation ( [www.fpds.gov](http://www.fpds.gov) ) Top 100 Contractors Report

**Lockheed Martin****Program Activity**

Some aerospace and government programs currently underway at Lockheed Martin are listed below. The briefs are intended to provide a listing of programs of major importance to the company. For detailed information on or analyses of specific aerospace and defense programs or equipment, please refer to the applicable Forecast International service (for example, *Civil Aircraft*, *Military Aircraft*, *Military Vehicles*, *Warships*, *Missiles*, *Electronic Systems*, and *Aviation Gas Turbines*). The following are the company's business interests:

- Rotorcraft
- Military Fixed-Wing Aircraft
- Defense Electronics
- Avionics
- C4I Systems
- Electronic Warfare
- Radar
- Sensors
- Missiles
- Ordnance Systems
- Space Systems
- Systems Integration
- Training Systems
- Unmanned Vehicles

**Aircraft Programs****Korea Aerospace Industries T/A-50**

This is a single-engine, two-seat trainer aircraft designed by KAI with assistance from Lockheed Martin. The Preliminary Design Review was completed in July 1999. The first prototype flew in August 2002; production is currently underway. A fighter variant is under study. In February 2016, Lockheed Martin and Korea Aerospace Industries offered a variant of the T-50, the T-50A, for the U.S. Air Force T-X trainer requirement. It lost the competition in 2018 to Boeing and Saab's T-7A Red Hawk.

**Lockheed C-5 Galaxy**

This is an intercontinental-range, heavy-lift military cargo/personnel transport aircraft. C-5A production ended in 1973; 81 were produced. C-5B production ended in 1989; 50 were built. The Reliability Enhancement and Re-engining Program (RERP) was one of the largest military retrofit programs in recent history, an effort that survived years of criticism and scrutiny. The RERP involves more than 70 modifications to the C-5, including installation of new

GE CF6-80C2 turbofan engines; improvements to the aircraft's electrical, fuel, hydraulic, flight control, and environmental control systems; and upgrades to the aircraft's structure and landing gear. Lockheed Martin was the prime contractor for these upgrades. The program, which concluded in 2018, has resulted in the extension of the service lives of 52 C-5Ms out to at least 2040.

**Lockheed F-16 Fighting Falcon**

The F-16 is a single-engine, single-seat, high-performance fighter/attack aircraft. Lockheed Martin is running out of orders for the long-running F-16 program. Lockheed Martin ran out of orders for the F-16 after it delivered the last aircraft ordered by Iraq in late 2017. It suspended production of the aircraft at its Fort Worth, Texas, facility, but plans to restart production at its Greenville, South Carolina, facility if it receives a new export order. Lockheed Martin secured a new order in June 2018 when Bahrain ordered 16 F-16V Block 70 aircraft. Slovakia followed with a 14-aircraft order in July 2018. In July 2019, the Bulgarian Council of Ministers approved draft agreements covering eight F-16Vs in a deal worth \$1.256 billion. In August 2019, the Trump administration approved a sale of 66 new F-16Vs to Taiwan in a deal worth \$8.1 billion.

In 2019, Lockheed Martin announced the F-21 variant, specifically configured for the Indian Air Force. Lockheed Martin and long-time Indian partner Tata would produce the F-21 in India.

Website: <https://www.lockheedmartin.com/en-us/products/f-16.html>

**Lockheed Martin/Boeing F-22 Raptor**

The F-22 is a twin-augmented, turbofan-powered, single-seat air superiority fighter aircraft. The F-22 is intended to ensure U.S. air superiority well into the 21st century. It offers a combination of stealth, supersonic cruise, agility, and advanced electronics capable of prevailing in long-range missile engagements as well as close-in dogfights. Initial Operational Capability was achieved in December 2005. The original USAF procurement plan called for 276 units; however, at the end of December 2004, the DoD approved a proposal to reduce F-22 procurement to 180 aircraft. In early 2009, the Obama administration decided to end production of the F-22 at 187 aircraft. The final aircraft rolled off the line in early 2012. Upgrade work continues. In December 2019, Lockheed Martin was awarded a five-

## Lockheed Martin

year, \$7.0 billion contract for ongoing F-22 sustainment. This additional contract extends service work through 2032.

Website: <https://www.lockheedmartin.com/en-us/products/f-22.html>

### Lockheed Martin C-130 Hercules

This is a pressurized, four-engine, turboprop-powered military and commercial cargo transport. Besides being designed for military cargo/personnel transportation, the C-130 is used for aerial refueling, for search and rescue operations, and for special purposes – as a gun platform, for example. It is also used to haul oversized cargo in civil applications. The foundation of the C-130J program continues to be robust procurement of the tactical airlifter and its multiple variants by the U.S. armed forces. The U.S. Air Force is currently acquiring no fewer than four versions of the C-130J, while the U.S. Marine Corps and U.S. Coast Guard are acquiring their own distinct C-130J models.

In July 2020, Lockheed Martin was awarded a \$15 billion to support the C-130J Hercules – both domestic and Foreign Military Sales (FMS) work – through July 2030.

**LM-100J.** In July 2014, Lockheed Martin launched its LM-100J commercial freighter with an order for 10 aircraft from ASL Aviation Group. The LM-100J is the civil-certified version of the C-130J and is an updated version of the L-100 (or L-382) cargo aircraft. The LM-100J made its flight debut in May 2017. U.S. Federal Aviation Administration (FAA) certification and service entry could occur by the end of 2019. As of mid-2019, Lockheed Martin had five firm orders for the LM-100J, including two from Texas-based Pallas Aviation. The manufacturer also has letters of intent for 20 LM-100Js, including 10 aircraft each for ASL Aviation Holdings and Bravo Industries.

In July 2018, Lockheed Martin introduced the LM-100J "FireHerc," a civil-certified firefighting air tanker variant, at the Farnborough International Air Show.

### Lockheed Martin F-35 Joint Strike Fighter

The F-35 Joint Strike Fighter program, now officially named Lightning II, is a U.S./U.K. effort to develop an affordable next-generation strike fighter aircraft. The Joint Strike Fighter is designed to replace the A-10, AV-8 Harrier, F-16, and F/A-18. Three versions of the JSF are planned. The conventional takeoff and landing (CTOL) variant (F-35A) will be built in the greatest quantity and is designed for the U.S. Air Force. The U.S. Navy's carrier variant (F-35C) features larger wing and control surfaces, additional wingtip ailerons, and a special structure to absorb the punishing catapult

launches and arrested landings associated with aircraft carrier operations. The short takeoff and vertical landing (STOVL) version (F-35B) is equipped with a unique shaft-driven lift-fan propulsion system that enables the aircraft to take off from a very short runway or small aircraft carrier and land vertically.

Planned U.S. procurement totals for the F-35 have remained remarkably constant over the years, even as the pace of the production ramp-up dramatically slowed. The U.S. Air Force plans to procure 1,763 F-35s over the life of the program, while the U.S. Marine Corps intends to acquire 340 F-35Bs and 80 F-35Cs, and the U.S. Navy plans to purchase 260 F-35Cs. Through 2020, Lockheed Martin built two concept demonstrator aircraft, 14 F-35 SDD aircraft, and more than 600 F-35 production aircraft. The company also built six static test aircraft.

Website: <https://www.f35.com/>

### Lockheed P-3 Orion

The P-3 is a land-based, four-engine, turboprop-powered, anti-submarine warfare/maritime patrol aircraft. An airborne early warning and control version is also available. Lockheed shut down the line at the end of 1995 upon completion of the eight-unit Republic of Korea order. Lockheed and Kawasaki produced 647 and 101 P-3s, respectively, through 1997. Upgrade work continues.

### Low-Boom Flight Demonstrator

In April 2018, NASA awarded Lockheed Martin Skunk Works a contract to design, build, and flight-test the Low-Boom Flight Demonstrator, an X-plane designed to make supersonic passenger air travel a reality. Lockheed Martin Skunk Works will build a full-scale experimental aircraft, known as an X-plane, of its preliminary design developed under NASA's Quiet Supersonic Technology (QueSST) effort. The X-plane will help NASA establish an acceptable commercial supersonic noise standard in order to overturn current regulations banning commercial supersonic travel over land. Work on the aircraft began at Lockheed Martin Skunk Works facility in Palmdale, California, in November 2018. Dubbed the X-59, the aircraft will conduct its first flight in 2021.

Website: [www.lockheedmartin.com/QueSST](http://www.lockheedmartin.com/QueSST)

### Mitsubishi F-2

This is an advanced-technology, high-performance, single-seat air combat fighter/interceptor aircraft based on the Block 40 F-16C. U.S. industry has 40 percent of the development and production program value, and as principal subcontractor, Lockheed Martin has approximately 75 percent of that total. The Japan Air

## Lockheed Martin

Self-Defense Force procured 94 aircraft. Deliveries were completed in September 2011.

### SR-72

In November 2013, Lockheed Martin's Skunk Works unveiled plans for an unmanned successor to the SR-71 Blackbird spy plane. The hypersonic so-called SR-72 will be designed to fly as fast as Mach 6. Lockheed Martin has been working with Aerojet Rocketdyne to develop a method to integrate an off-the-shelf turbine with a supersonic combustion ramjet air-breathing jet engine to power the aircraft to these speeds. An operational aircraft could be ready by 2030. In early 2016, the company was reportedly looking at a reusable, air-breathing hypersonic vehicle utilizing technology based on the HTV-3X Blackswift hypersonic testbed program. Development of hypersonic technology has accelerated at Skunk Works following the receipt of several hypersonic weapon contract awards during the past few years (see **New Products and Services**).

### Contract Vehicles

Contract vehicles provide federal agencies with a convenient and easy-to-use mechanism for obtaining a wide variety of management and technology services.

Indefinite delivery/indefinite quantity (IDIQ) contracts provide for an indefinite quantity of services for a fixed time. They are used when the U.S. General Services Administration (GSA – [www.gsa.gov](http://www.gsa.gov)) cannot determine, above a specified minimum, the precise quantities of supplies or services that the government will require during the contract period. IDIQs help streamline the contract process and speed service delivery. IDIQ contracts are most often used for service contracts and architect-engineering services.

The select contract vehicles list below includes Multiple-Agency Contracts, Government-Wide Acquisition Contracts (GWACs), Agency-Specific Contracts (Multiple Award Contracts), and GSA Schedules. For more information on the GSA, visit <http://www.gsa.gov>

#### Select Contract Vehicles

- GSA OASIS
- Advanced Technology Support Program (ATSP)
- GS-02F-0173W – HR and Equal Employment Opportunity
- GS-21F-0187X – 03FAC (Energy Management)
- GSA Alliant
- GSA Alliant 2
- GSA Schedule 36: The Office, Imaging and Document Solution (Office Imaging)
- GSA Schedule 70: Information Technology Services

- GSA Schedule 84: Total Solutions for Law Enforcement, Security, Facilities Management, Fire and Rescue Products, Clothing, Marine Craft, and Emergency/Disaster Response (Total Solutions)
- GSA Schedule 520: Financial and Business Solutions (FABS)
- GSA Schedule 541: Advertising and Integrated Marketing Solutions (AIMS)
- Schedule 621 I: Professional and Allied Healthcare Staffing Services
- GSA Schedule 871: Professional Engineering Services (PES)
- GSA Schedule 874: Mission Oriented Business Integrated Support (MOBIS)
- GSA Schedule 874V: Logistics Worldwide (LogWorld)
- GSA Schedule 899: Environmental Services

For full details on Lockheed Martin's contract vehicles, please see the following corporate site:

<https://www.lockheedmartin.com/en-us/who-we-are/business-areas/rotary-and-mission-systems/contract-vehicles-gsa-schedules.html>

### Electronic Programs

#### (Airborne Electronics)

#### AAQ-13/AAQ-14 LANTIRN

The Low-Altitude Navigation Targeting Infrared Night is a FLIR night navigation and fire control system consisting of a navigation pod (AAQ-13) and a laser designator/ranger pod (AAQ-14). Lockheed Martin Missiles and Fire Control is the prime contractor for development and production. Lockheed handles F-16 LANTIRN integration work.

#### AAQ-33 Sniper

This is a long-range precision targeting system produced by Lockheed Martin Missiles and Fire Control. Sniper targeting pods are being flown on F-15E, F-16 Block 30/40/50, A-10C/A+, F/A-18, and GR9 Harrier aircraft. The USAF is integrating the B-1B and B-52 for Sniper use. The Sniper's primary user, the USAF, is performing AAQ-33 upgrades on a significant number of aircraft in its fleet, including B-52 bombers and F-15C Eagles. Additionally, the service recently began upgrading many of its in-place units to the Sniper ATP-SE configuration.

#### AAQ-40 EOTS

The AAQ-40 Electro-Optical Targeting System (EOTS) is a multifunctional system for precision air-to-air and air-to-ground targeting. Designed for the F-35 Joint Strike Fighter, it features FLIR, infrared search and track (IRST), and laser designation functionality. AAQ-

## Lockheed Martin

40 EOTS production will peak in the late 2020s alongside peak F-35 production.

### AAS-42, ASG-34, IRST21 & Legion Pod

This is an airborne IRST system produced by Lockheed Martin Missiles and Fire Control. Production of the AAS-42 is complete for the U.S. Navy's F-14D aircraft. The IRST21 is the next-generation successor to the AAS-42 system. Saudi Arabia's order for 84 AAS-42-equipped F-15SAs has extended the life of the system to around 2020. When integrated into a pod for the F-15, the system is known as the Legion Pod. When integrated into a fuel tank/ECU/sensor combination for the F/A-18, the system is known as the ASG-34(V)1 pod.

### ALQ-210(V)

The ALQ-210 is an airborne radar warning receiver / electronic support measures (ESM) system. It is carried by the SH/MH-60R multimission helicopter and the CH-148. The ALQ-210 RWR/ESM will be in production for U.S. Navy and Canadian maritime helicopter applications over the next several years.

### ALQ-217(V)

The ALQ-217 advanced ESM system for the E-2C/D Hawkeye AEW&C aircraft provides threat detection and emitter classification. It also equips Canada's EP-140 Aurora.

### ASQ-170 Arrowhead M-TADS/PNVS

The Arrowhead is a significant upgrade to the Apache Target Acquisition and Designation Sight/Pilot Night Vision Sensor (TADS/PNVS) electro-optical fire control system, which is designed to provide targeting functions combined with safe operation for the AH-64 Apache helicopter, day or night and in bad weather. Several nations are interested in purchasing new AH-64D Apaches with Arrowhead systems; others are looking at upgrading older AH-64A models with Arrowhead technology.

### (ASW)

### Advanced Submarine Systems Development

This is a non-acquisition program that develops and matures hull, mechanical, and electrical (HM&E) technologies and transitions them to operational platforms; develops submarine design and naval architecture products destined for backfit, forward fit, and/or future submarines; and operates unique R&D experimentation, modeling, and simulation facilities to enhance submarine stealth, maneuverability, and affordability. The program is structured to support near-term technology insertion to achieve Virginia class cost

reductions and influence future submarine concepts and core technologies.

A related effort is Sea Power 21's Sea Trial (the rapid development of technologies using experimentation and wargaming), which supports naval enterprises in identifying and prototyping capabilities and technologies that support the warfighter. Lockheed Martin is identified as a contractor on this effort.

### AQS-22 ALFS

The AQS-22 Airborne Low Frequency Sonar (ALFS) is a U.S. Navy helicopter-borne low-frequency active / passive dipping sonar that locates, identifies, and tracks submarines. Raytheon is the prime, and Lockheed Martin provides product support and integration. AQS-22 sales are expected to drop sharply upon completion of the MH-60R helicopter (main platform) production run.

### BLQ-10 ESM

The BLQ-10 is an ESM system for the U.S. Navy's Los Angeles and Virginia class attack submarines. It collects and processes complex radar, communications, and navigation low-level emissions from commercial shipping traffic and surface threats. The BLQ-10 provides ESM for submarines in the areas of tactical surveillance and reconnaissance. The system is likely to be installed on the future Columbia class SSBN (the Ohio class replacement).

### BQQ-5(V)

This is a digital multibeam active/passive sonar suite for fast attack and ballistic missile submarines using a hull-mounted/towed array. It was developed by Lockheed Martin.

### RUR-5A ASROC

The RUR-5A ASROC is an anti-submarine rocket system. The original RUR-5A ASROC missile is no longer in production. The system is in service on a wide variety of warships in U.S. and foreign fleets. The Vertical Launch ASROC, the RUR-5A's replacement, is available. The system was developed and is produced by Lockheed Martin.

### SQQ-89(V)

The SQQ-89 surface ASW combat system provides the U.S. Navy's newest surface combatants (Oliver H. Perry class frigates, Ticonderoga class cruisers, and Arleigh Burke class destroyers) with a means to deal with the rapidly changing tactical ASW situations posed by the former Soviet Union's newest classes of nuclear-powered fast attack and cruise missile submarines. The system is produced by Lockheed Martin.

## Lockheed Martin

### Surface and Shallow Water Mine Countermeasures

The Surface and Shallow Water Mine Countermeasures program develops defenses against known and projected foreign mines in harbors, channels, choke points, sea lines of communications, and amphibious and other fleet operating areas. It develops and supports systems that detect, localize, and counter moored, bottom, close-tethered, and buried mines. Lockheed Martin is developing a remote minehunting system under this program.

### Surface Ship Torpedo Defense

The SSTD program develops soft- and hard-kill anti-torpedo weapons and countermeasures systems. This is a joint effort run by the U.S. Navy and the U.K. Royal Navy. Lockheed Martin was the prime contractor for Phase II SLR-24. Phase II added torpedo detection capability and an expendable countermeasures subsystem in the form of the SLR-24 detection and classification system.

### Surface Tactical Team Trainer

The Surface Tactical Team Trainer program develops prototype surface warfare training devices to improve training, operational readiness, efficiency, and safety. These devices also reduce training time and costs. Surface warfare training systems are developed to replace obsolete devices and provide team procedural and tactical training/evaluation in a multithreat environment. Lockheed Martin is identified as a participant in this program.

### Type 2093 Sonar

This is a hull-mounted variable-depth minehunting and classification sonar. Type 2093 was designed jointly by Thales Underwater Systems and Lockheed Martin. Production is complete. Future activity is likely to consist of spares, upgrades, and modernization.

(C4I)

### Airborne Reconnaissance Low (ARL)

The ARL is a reconnaissance system developed to enable aircraft to detect, locate, and identify targets in counternarcotics operations through the use of electro-optics, radar, communications intelligence, and precision location/direction-finding equipment. Since 2015, the U.S. has been replacing its ARL-M fleet with the next-generation ARL-E based on the Q-400 platform. In all, the U.S. Army has allocated funding for nine of the new ARL-E units.

### BMD C2BMC Program

The BMD C2BMC program is the linchpin of the U.S. Ballistic Missile Defense System (BMDS), without which there is no integrated, layered U.S. ballistic

missile defense. The goal of the C2BMC program is to deliver an integrated, layered ballistic missile defense system by networking and unifying individual components (sensors, weapons systems, and fire control) with all military echelons across the globe. Lockheed Martin is developing the C2BMC capability for the BMDS.

### Cyber Operations

The U.S. Missile Defense Agency's Cyber Operations project conducts a variety of cyber research, testing, analysis, and risk assessment activities. The Cyber Operations project sustains MDA Risk Management Framework (RMF) and Controls Validation Testing (CVT) activities. More generally, it sustains all activities necessary to comply with the Federal Information Security Management Act (FISMA). The Cyber Operations project is part of PE#0603881C (Ballistic Missile Defense, Terminal Defense Segment). Lockheed Martin and Torch Technologies have received various contracts for this effort. Due to the sensitive nature of the work conducted under the Cyber Operations project, specific contracts for this effort are classified.

### Integrated Strategic Planning and Analysis Network

The Integrated Strategic Planning and Analysis Network (ISPAN), formerly known as the Strategic War Planning System, or SWPS, is being developed under a program of the U.S. Strategic Command with the objective of preparing the U.S. for various war scenarios ranging from nuclear war to conventional low-intensity conflicts to terrorism. It involves the extensive collection of database information from numerous command, control, communications, computers, combat systems, intelligence, surveillance, and reconnaissance (C5ISR) systems worldwide. Lockheed Martin is providing analysis model support, hardware maintenance, and systems engineering.

### NUDET Detection System

The Nuclear Detonation Detection System (formerly known as the Integrated Operational NUDET Detection System) is a global nuclear detonation surveillance system. Under the NUDET program, Lockheed Martin integrates NDS sensors on GPS Block II replenishment satellites.

### Shared Early Warning System (SEWS)

The SEWS is a network-centric missile defense early warning system. It uses a variety of land- and space-based missile event detection systems (radars, electro-optical systems, etc.) to report information by satellite to a central command and control center located at Peterson Air Force Base, Colorado. From the control center, Missile Event Information reports are

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disseminated to other command and control centers within the U.S. and to theater combatant commanders and SEWS partner nations. SEWS has transitioned from the U.S. Air Force to the Space Force sub-organization. SEWS is in a sustainment period, which will result in steady funding levels through the mid-2020s.

### UYQ-70

The UYQ-70 is a combat computer system with a display that is designed as a workstation. It integrates data from combat command and control systems to provide a picture of the battlespace. The UYQ-70 can be installed on airborne, surface, and submarine platforms.

### VUIT

The VUIT-2 (Video from Unmanned Aircraft for Interoperability Teaming-Level 2) is a kit-based system that enables Apache helicopter aircrews to view streaming video and metadata from unmanned aerial systems. It also gives Apaches the ability to receive video from aircraft equipped with advanced targeting pods.

### (Electronic Systems)

#### CASS

The Consolidated Automated Support System is a family of automatic test equipment being developed for use by the U.S. Navy. The CASS program is aimed at developing a modular, multifunctional, automatic test system based on standard hardware and software elements for all U.S. Navy electronic systems. ECASS is scheduled to replace the U.S. Navy's older CASS units. The system has the ability to perform maintenance on a number of aircraft systems, including the F/A-18 radar, and on the airborne integrated jamming systems of the EA-6B Prowler and EA-18G Growler.

eCASS. In September 2018, the U.S. Navy awarded Lockheed Martin a seven-year contract worth more than \$500 million to build and deliver more than 200+ electronic Consolidated Automated Support Systems (eCASS) to maximize aircraft readiness. Sailors use eCASS to troubleshoot and repair aircraft electronics ashore and at sea. The Navy awarded Lockheed Martin a CASS contract in 2000 worth \$287 million. Since 2010, Lockheed Martin has delivered more than 80 eCASS stations to the Navy as part of its transition from the legacy CASS testing stations.

#### MILES

The Multiple Integrated Laser Engagement System is a weapons simulation system. MILES is the standard all-arms training device for the U.S. Army and Marine Corps and is also in use by armed forces in other

nations. The system is in production, with an upgraded version now available. Lockheed Martin is producing the MILES XXI system, which features a 50 percent weight reduction, smaller components, longer battery life, and lower production costs.

### Warfighter Information Network-Tactical (WIN-T)

The Warfighter Information Network-Tactical is the U.S. Army's tactical telecommunications system, consisting of communication infrastructure and network components from maneuver battalion to the theater rear boundary. WIN-T provides C4ISR capabilities that are mobile, secure, survivable, and seamless, and capable of supporting multimedia tactical information systems. In the fall of 2017, the U.S. Army told Congress that it wanted to halt its WIN-T effort with Increment 2 at the end of FY18. Increment 3 was also terminated in FY18 and restructured under the title Tactical Cyber and Network Operations, with elements being folded into Increment 2. The Army said WIN-T was no longer suitable for current and future combat situations. While WIN-T initially did well in Afghanistan and Iraq, the Army said the system would not do well against, and could be hacked by, technologically advanced nations such as Russia or China.

### (Radar)

#### APG-78 Longbow Radar

The APG-78(V) is the fire control radar portion of the Longbow helicopter and is a day/night, all-weather fire-and-forget targeting system for the HELLFIRE missile. It is specifically designed to target and track vehicles. The APG-78 is produced by Longbow LLC (which includes Lockheed Martin). The system is used on the AH-64D Longbow/Apache helicopter. Demand for the AH-64E Guardian Block III Apache will propel APG-78 sales into the mid-2020s.

#### APY-9

The APY-9 Advanced Hawkeye radar is an AESA surveillance radar developed for installation on the U.S. Navy's E-2D. Under the program, the Navy will produce new aircraft, called the E-2D Advanced Hawkeye, equipped with the APY-9. The U.S. Navy intends to purchase 75 E-2D Advanced Hawkeyes. These aircraft will replace the E-2C Hawkeye 2000s currently in service. A moderate market exists for the E-2D abroad. Japan was the first international customer for the E-2D; France is expected to order system as well.

#### COBRA

The COBRA (Counter Battery Radar) is a multifunctional, 3-D, phased-array radar with an active gallium arsenide antenna. The COBRA is tasked with



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the detection of enemy artillery, rockets, and mortar rounds at long range; the classification of the round; and the localization of the firing unit. It was developed by the EURO-ART consortium, which consists of Lockheed Martin, Thales, and Airbus SE.

### Jindalee/JORN

Lockheed Martin's Jindalee Operational Radar Network (JORN) provides early warning against air and seaborne threats to Australia from the northern, northwestern, and northeastern approaches to the continent. The system is intended to provide tracking coverage of both ships and aircraft at ranges of up to 3,000 kilometers. Jindalee is regarded as a supplementary system to an AEW aircraft force, enabling the latter to be deployed more effectively. JORN is undergoing an upgrade under the Joint Program (JP) 2025 Phase 6 - OTHR Enhancement Program. The JORN AIR2025 Phase 6 upgrade project will be worth approximately AUD1.2 billion to JORN contractors.

### Space Fence

The Space Fence will be a system of ground-based phased-array radars that detect and report on small orbiting objects, primarily those in low-Earth orbit (LEO). It will replace the Air Force Space Surveillance System (AFSSS). In June 2014, the USAF selected Lockheed Martin over Raytheon for the Space Fence program. Under the \$915 million contract, Lockheed Martin will develop a ground-based radar for tracking objects in space.

Space Fence will allow the Air Force to dramatically increase its ability to track "space junk" and other smaller objects in space. Over its lifetime, the Space Fence program has a total anticipated value of more than \$3.5 billion. Space Fence passed its Critical Design Review in October 2015. Initial Operational Capability for Space Fence was achieved in March 2020.

### SPY-1(V) AEGIS

AEGIS is the U.S. Navy's premier fleet air defense system. It provides area air defense for the CG-47 Ticonderoga class cruisers, the DDG-51 Arleigh Burke class destroyers, and the new Japanese Yukikaze destroyer class. Lockheed Martin is responsible for producing the SPY-1 AEGIS radar system, the advanced warning systems, and support equipment. The SPY-6 AMDR is replacing the SPY-1 on new-build U.S. Navy vessels beginning in 2023.

### SPY-6 AMDR, EASR, and SPY-3 DBR

The Dual-Band Radar (DBR) suite is made up of the Raytheon-produced SPY-3 X-band multifunction radar (MFR) and a Lockheed Martin-produced S-band volume surveillance radar (VSR). The system is

arranged in a compound active phased-array setup for shipborne air and missile defense.

The developmental Air and Missile Defense Radar (AMDR) suite will replace the radars on board the U.S. Navy's AEGIS Weapon System-equipped vessels. The AMDR suite is composed of two separate radar requirements, the AMDR-S S-band radar and the AMDR-X X-band radar. EASR is a scaled-down version of the SPY-6 AMDR. Northrop Grumman, Lockheed Martin, and Raytheon were awarded AMDR contracts in September 2010. The program reached its next milestone in October 2013, when Raytheon was selected to supply the AMDR-S component. The AMDR-X contract is still to be awarded.

### SPY-7, Long Range Discrimination Radar (LRDR), Homeland Defense Radar (HDR)

The SPY-7, Long Range Discrimination Radar (LRDR), and Homeland Defense Radar (HDR) are a family of modular, long-range, 3D, active electronically scanned array (AESA) air and missile defense (AMD) radars. All of the radars utilize gallium nitride (GaN) elements. Collectively, Lockheed Martin has referred to the radars as its Solid State Radar (SSR) family. The SSR family is derived from Lockheed Martin's work on a solid state radar for the U.S. Missile Defense Agency, a project that ultimately became the LRDR. Because of the nature of the radar's technology, the company has been able to scale the LRDR's modular array elements to fit a variety of mission types and power requirements.

In November 2019, Lockheed Martin's Solid State Radar (LM SSR) was officially designated as SPY-7(V)1 by the United States government. The Japanese Ministry of Defense selected SPY-7(V)1 for two planned Aegis Ashore installations in 2018. Additionally, variants of SPY-7(V)1 will be used by the Royal Canadian Navy for the Canadian Surface Combatant program and the Spanish Navy for the upcoming F-110 frigate program.

### TPQ-53 (EQ-36)

The TPQ-53 (formerly the Enhanced TPQ-36 [EQ-36]) is a counterfire radar that will be an improvement over the TPQ-36 Firefinder radar currently in service. The radar can also perform aerial surveillance in revised configurations. The TPQ-53 provides ground forces with a short-range artillery and mortar locating radar.

### TPS-77

The TPS-77 air defense radar is a mobile, solid-state, L-band, 3-D system that was designed to provide long-range aircraft detection and position data for both counter-air and close air support operations. It is based

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on the FPS-117 and features 80 percent commonality with that system.

### Missile Programs

#### AGM-114A/B HELLFIRE

The HELLFIRE is a modular, laser-guided anti-tank / anti-ship missile system. Lockheed Martin Missiles and Fire Control and Boeing (formerly Rockwell) jointly produce HELLFIRE and HELLFIRE II under the joint venture Hellfire Systems LLC. Lockheed Martin remains the exclusive contractor for Longbow HELLFIRE and Brimstone systems. Prior to the formation of Hellfire Systems, Lockheed Martin was prime contractor for the HELLFIRE Optimization program, also known as HOMS and now called HELLFIRE II. Lockheed Martin remains the lead firm on the Longbow HELLFIRE missile program and is teamed with Northrop Grumman. Production of the HELLFIRE II missile is proceeding. Battlefield demand is fueling HELLFIRE production.

#### AGM-142A HAVE NAP

This is a standoff land attack weapon. Rafael and Lockheed Martin have signed a formal MoU that makes Lockheed Martin a full production partner. The missile is being marketed and manufactured by the joint venture Precision Guided Systems United States (PGSUS) LLC, Orlando, Florida, which is made up of the two firms. The U.S. Air Force, which procured the system for its B-52G bombers, has designated the missile the AGM-142A.

#### FGM-148 Javelin

Javelin is intended to replace the FGM-77 Dragon and update the U.S. Army's anti-tank weapon inventory. Javelin Joint Venture, the prime contractor for Javelin, is made up of Raytheon and Lockheed Martin Missiles and Fire Control. More than 1,000 Javelins have been used during combat operations in Afghanistan and Iraq. Javelin's successful combat deployments could boost its chances of winning new overseas orders. NATO holds good potential for future Javelin orders.

#### JASSM

The Joint Air-to-Surface Standoff Missile (JASSM) is a long-range, conventional, air-to-ground precision missile designed to destroy high-value, well-defended fixed and relocatable targets. Total sales from the program are ultimately expected to amount to \$3 billion. Lockheed Martin was selected as the prime contractor for the JASSM in 1998. U.S. procurement of JASSMs and JASSM-ERs will reach 10,000 missiles.

#### Joint Air-to-Ground Missile

This is an anti-armor missile system. In April 2015, Lockheed Martin was left as the sole competitor in the

Joint Air-to-Ground Missile competition when Raytheon decided not to bid for the program. JAGM will replace the HELLFIRE II and Longbow HELLFIRE missiles on various helicopters. In August 2015, Lockheed Martin was awarded a two-year, \$66 million EMD contract. Low-rate initial production (LRIP) began in 2017. The U.S. Marine Corps and Air Force will also procure this missile. Lockheed Martin is working to generate foreign interest in the JAGM.

#### Long Range Anti-Ship Missile (LRASM)

LRASM is an autonomous, precision-guided anti-ship standoff missile based on the successful JASSM-ER, and is designed to meet the needs of the U.S. Navy and Air Force. In May 2016, Lockheed Martin received a \$321.8 million sole-source contract from the U.S. Navy for continuation of the LRASM integration and test phase. The LRASM uses the designation AGM-158C. LRASM procurement began in 2017.

#### MEADS

In June 2005, the joint venture MEADS International formally signed a definitized contract to design and develop the trinational Medium Extended Air Defense System for the U.S., Italy, and Germany. The contract had a value of approximately \$2 billion, plus \$1.4 billion for the program's design and development phase. In 2011, the United States decided not to procure MEADS. Washington claimed the program was too far behind schedule. Germany followed suit shortly thereafter. However, in June 2015, Germany reversed course and selected MEADS (over Raytheon's Patriot system) to form the basis for the country's Taktisches Luftverteidigungssystem (TLVS).

Deadlines for a TLVS contract award in 2017 and 2018 came and went, and then again in 2019 and 2020. Now, the final date is in 2021. As it looks to expand sales, MEADS International is now targeting other Patriot-operating nations, such as the Netherlands, Spain, and Greece, and countries still using the older HAWK missile system.

Website: <https://www.mbd-systems.com/about-us/mbda-worldwide/meads-international-inc/>

#### MGM-140 ATACMS

ATACMS is a short-range ballistic missile system produced by Lockheed Martin Missiles and Fire Control. Full-rate production of ATACMS Block I and Block IA (also known as Extended Range ATACMS and ATACMS P3I) is underway. LRIP of the ATACMS Block II began in February 1999, with full-rate fabrication starting in 2003. ATACMS Block IIA has been terminated. U.S. Army procurement of ATACMS has ceased, but foreign orders have extended production.

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In June 2019, Lockheed Martin received a \$561.8 million contract to produce Army Tactical Missile System (ATACMS) missiles for the U.S. Army and Foreign Military Sales (FMS) customers. The two-year contract calls for new ATACMS rounds as well as the upgrade of several previous variants of ATACMS as part of Service Life Extension Program III (SLEP III).

### MIM-104 Patriot

The Patriot offers defense against high-performance aircraft and some missiles at all altitudes. The Patriot is capable of defeating tactical ballistic missiles and submarine-launched cruise missiles in an intense electronic counter-countermeasures (ECCM) environment. Raytheon designed and produced the system, with Lockheed Martin providing the missile itself. The Patriot system could remain operational well into the 2040s and perhaps beyond. The United States will keep its Patriot SAMs operational through 2048. During this period, Pentagon spending will focus on upgrading existing systems and extending their service lives.

### THAAD

The Theater High Altitude Area Defense (THAAD) is a tactical ballistic missile defense system. The political tensions in Europe, the Middle East, and the Pacific region are generating interest in missile defense systems, including THAAD. The United States will initially be the most significant customer for THAAD, although international orders could generate a significant amount of revenue.

### UGM-133A Trident II

The Trident is a strategic submarine-launched ballistic missile (SLBM). Lockheed Martin is the prime contractor on this program. Over the Trident's production life, 599 UGM-96A Trident I C-4 (including RDT&E) missiles were constructed. Approximately 367 Trident I missiles are known to be deployed on U.S. Navy ballistic missile submarines.

Trident II missiles are still being procured, with approximately 216 UGM-133B Trident IIs acquired. The U.S. Navy has ended "missile production" and is focusing on funding of Trident II upgrades. The first objective of this modernization program is to enable the Trident II SLBM to remain operational through 2042. Initially, the armament for the new Columbia class SSBN will be the Trident II SLBM.

### Ordnance Programs

#### AGM-154 Joint Standoff Weapon

This is an air-launched standoff surface attack weapon. The JSOW is being developed and manufactured by

Raytheon. Lockheed Martin is a subcontractor on this program, producing the warhead munition package.

### BLU-109/B

The BLU-109/B is designed for precision destruction by tactical aircraft of hard targets such as command centers and buried installations. The actual BLU-109/B munition is a specially produced bomb that can be used in its basic "dumb" form or integrated with various guidance systems. Production was completed with the delivery of the last bomb in 1987; however, this weapon can still be procured if desired. Production of the BLU-109/Improved 2000 is ongoing.

### M270 MLRS and XM142 HIMARS

The M270 multiple launch rocket system (MLRS) is a saturation artillery rocket system for use in neutralizing and/or suppressing enemy second-echelon personnel, armor, fire support, and air defense and material assets, particularly during surge periods. The High Mobility Artillery Rocket System (HIMARS) program developed an MLRS that was air-transportable via C-130 tactical transport aircraft. This system was developed and manufactured by Lockheed Martin Missiles and Fire Control. Production in the U.S. is complete. The focus of the Army's M270 MLRS program has now shifted to the retrofit of existing MLRS to the M270A1 configuration. In the case of the HIMARS, systems are being upgraded for the Army and Marine Corps.

In July 2019, Lockheed Martin was awarded a \$492 million contract to produce HIMARS launchers and associated hardware for the U.S. Army, U.S. Marine Corps, Romania, and Poland (marking Poland's first acquisition of HIMARS launchers). Deliveries will begin in 2022.

### Rotorcraft Programs

#### (Medium/Heavy Turbine Rotorcraft)

#### Sikorsky CH-53K

The CH-53K is a three-engine heavy-lift transport and special-purpose helicopter. The aircraft was selected in 2006 as the U.S. Marine Corps' Heavy-Lift Replacement (HLR) helicopter. Now designated the CH-53K King Stallion, this aircraft will replace the CH-53E in the USMC's inventory. Initially the program called for procurement of 156 helicopters, but the total program requirement has since risen to 205 helicopters (including prototypes and test vehicles) to match the increasing size of the corps' end strength. First flight of the CH-53K occurred in October 2015. Technical deficiencies identified during testing will require remedies that will delay the start of the initial operational test and evaluation (IOT&E) phase to 2021.

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### Sikorsky S-92

This is a twin-engine, single-main-rotor, medium-lift commercial and military helicopter. Two full-scale mockups were completed in April 1992, and the program was formally launched in June 1994; full-scale development is underway. The prototype flew in December 1998, and certification was awarded in December 2002. Sikorsky is teamed with Mitsubishi Heavy Industries (Japan), Taiwan Industries (Taiwan), Jingdezhen Helicopter Group (People's Republic of China), Gamesa (Spain), and Embraer (Brazil) on the program. Sikorsky delivered the first S-92 in March 2004.

Demand for the S-92 from the offshore energy industry was weak even before COVID-19 decimated the energy industry. Falling energy prices reduced activity in the sector, leading to plummeting demand from the offshore energy exploration and extraction market. Production of the S-92 program is thus highly correlated with the price of energy.

Perhaps the biggest prize for this program was its selection under the Pentagon's reconstituted VXX Presidential Helicopter program. Sikorsky teamed up with Lockheed Martin to offer the VH-92A, which is based on the civilian S-92. The program covers two test aircraft and an operational fleet of 23 Marine One helicopters. In May 2014, Sikorsky was selected to build the next fleet of Marine One helicopters for the president. Under the \$1.24 billion EMD contract, Sikorsky will modify and test six VH-92A helicopters and two trainer simulators and deliver them to the U.S. Marine Corps. Covering a period of performance into late 2020, the fixed-price-incentive contract is the initial step in providing a VXX presidential helicopter replacement fleet totaling 21 operational aircraft. A \$471 million Lot II LRIP contract was let in February 2020 covering construction of VH-92A presidential helicopters. These aircraft will be delivered in 2022 and 2023.

### Sikorsky SH/MH-60 Seahawk

The SH-60 Seahawk is a twin turboshaft-powered, medium-lift, anti-submarine warfare and special-purpose maritime helicopter. Sikorsky's SH-60 family of anti-ship and ASW helicopters is directly derived from the UH-60/S-70 Black Hawk. The U.S. Navy is the primary buyer of the Seahawk helicopter. The service is currently in the middle of a massive program to recapitalize and streamline its shipboard helicopter fleet from six legacy types to two new models of the Seahawk: the MH-60R and MH-60S. The MH-60R would provide a replacement for the Navy's current fleets of SH-60B, SH-60F, and HH-60H helicopters. The MH-60S is optimized for vertical replenishment, combat search and rescue (CSAR), special warfare

support and airborne mine countermeasures, and anti-surface warfare (ASuW). The U.S. Navy plans to procure a total of 278 MH-60R and 275 MH-60S helicopters. Production is falling now that the Navy's requirements are met. The future of the Seahawk now depends on the export market.

### Sikorsky UH-60/S-70 Black Hawk

The UH-60/S-70 Black Hawk is a twin-engine, single-main-rotor, medium-lift military transport helicopter. Sikorsky has produced over 3,600 Black Hawks to date for military and commercial customers. The current production models are the HH-60M, S-70M, S-70i, and T70.

Sikorsky was awarded a multiyear contract, worth \$3.8 billion, in June 2017 by the U.S. Army for the production of 257 UH-60M and HH-60M helicopters. The contract covers U.S. Army Black Hawk procurement for the five-year period from FY17 through FY21, as well as production for FMS customers. The contract also includes options for an additional 103 helicopters, exercise of which would bring the total contract value to \$5.2 billion. U.S. Army procurement plans call for the acquisition of 1,375 M-model Black Hawks. This total includes 956 UH-60M utility helicopters and 419 HH-60M medevac models.

In 2006, Sikorsky announced the S-70i International Black Hawk. The S-70i is essentially a hybrid of the UH-60L and UH-60M. Less advanced and less expensive than the UH-60M, the S-70i is designed with a modular platform that is configurable to specific customer requirements. S-70i final assembly is performed in Poland by Sikorsky subsidiary PZL Mielec.

The T70 Black Hawk is a customized variant of the S-70i. Sikorsky received a \$3.5 billion contract in 2014 for the coproduction of 109 T70s for Turkey's armed forces, National Police, and Directorate General of Forestry. The helicopters are being built in Turkey by Turkish Aerospace.

The U.S. Air Force selected a UH-60M variant, called the HH-60W, as its new \$7.9 billion Combat Rescue Helicopter. The service plans to acquire 112 HH-60Ws in order to replace HH-60G Pave Hawks in the personnel recovery role. The 112-unit total includes nine development aircraft and 103 production helicopters. The HH-60W performed its first flight in May 2019 and was later approved for low-rate initial production in September.

### (Light Turbine Rotorcraft)

### Sikorsky S-76

The S-76 is a 12- to 15-place, twin-engine, single-main-rotor commercial and military helicopter. Civil

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applications include corporate passenger transportation, offshore oil and gas support, and emergency medical services (EMS). Military applications include counterinsurgency, troop/logistics support, medical evacuation, search-and-rescue, air ambulance, airborne assault, observation, and light anti-tank operations. Naval applications include anti-submarine warfare, surface attack, SAR, and anti-ship surveillance and targeting. Current production focuses on the S-76D model. Through 2020, Sikorsky produced more than 880 S-76s of all types.

### X2 Technology

In June 2005, Sikorsky announced plans to build and evaluate a demonstrator aircraft for a new class of coaxial helicopters that will offer vertical flight capabilities equal to or better than those of current rotorcraft, as well as a high-speed configuration that permits cruise speeds of 250 knots. The X2 Technology demonstrator entered testing at Sikorsky's Schweizer Aircraft subsidiary in 2007. First flight occurred in August 2008.

X2 Technology refers to a suite of technologies Sikorsky will apply to achieve new levels of speed and performance in coaxial helicopters. Coaxial helicopters feature a pair of counter-rotating rotors on the same vertical axis. X2 Technology aircraft will hover, land vertically, maneuver at low speeds, and transition seamlessly from hover to forward flight like a helicopter. In a high-speed configuration, one or more "pusher props" are part of an integrated auxiliary propulsion system that permits high speed with no need to physically reconfigure the aircraft in flight.

In January 2012, Sikorsky selected 35 companies to join its team assembling two prototype S-97 Raider helicopters for evaluation by the U.S. military. Self-funded by Sikorsky and its team members, the Raider program will demonstrate the military applications of Sikorsky's X2 rotorcraft design.

See Future Vertical Lift entries in **Teaming/Competition/Joint Ventures** for more details.

## Space Systems – Launch Vehicles and Manned Platforms

### Atlas V

Atlas V is a family of medium-lift expendable launch vehicles that are designed primarily to carry large communications satellites to geosynchronous transfer orbit. Most Atlas V production will be part of the U.S. Air Force's EELV program (see EELV, below) and will primarily meet the launch requirements of NASA, the U.S. Air Force, and the National Reconnaissance Office (NRO). Commercial Atlas V launches are offered

through Lockheed Martin Commercial Launch Services. The Atlas V and Delta IV will be replaced by the United Launch Alliance (ULA) Vulcan by the 2020s.

### Centaur Upper Stage

Lockheed Martin's Centaur is an upper-stage vehicle powered by liquid hydrogen/liquid oxygen propellant. Centaurs are designed for Earth-orbital and interplanetary payloads. The system is in production for use aboard Atlas V expendable launch vehicles.

### EELV

The Evolved Expendable Launch Vehicle is a class of rocket built under a U.S. Air Force contract and designed to launch medium and heavy military payloads. The class consists of the Boeing Delta IV and Lockheed Martin Atlas V. In December 2006, Boeing and Lockheed Martin completed combining their expendable launch vehicle businesses to form the joint venture called United Launch Alliance LLC. ULA combines the production, engineering, test, and launch operations associated with U.S. government launches of Delta IV and Atlas V rockets. In April 2015, ULA announced plans to replace the Atlas V and Delta IV with the Vulcan family of launch vehicles being developed by ULA.

### International Space Station

The ISS is an orbiting, crewed research and work center. Boeing Defense and Space Group, Seattle, Washington, is the prime contractor. Lockheed Martin is supplying the solar arrays, photovoltaic radiators, and communications and tracking systems for the station.

### Orion MPCV

Formerly known as the Crew Exploration Vehicle (CEV), the Orion Multipurpose Crew Vehicle (MPCV) is being designed to act as an emergency escape vehicle and to provide crew transportation into low-Earth orbit and deep space. In August 2006, NASA selected Lockheed Martin to develop and build the Orion spacecraft for the Constellation program under a contract worth \$3.9 billion. Although the president's FY11 budget request canceled the Orion project, the design for Orion was carried forward as the Orion MPCV as part of NASA's new plans to explore beyond low-Earth orbit and into deep space. The first Orion launched in 2014 aboard a Delta IV. The first crewed Orion launch has been delayed until 2022 or 2023.

In July 2019, Lockheed Martin completed building the capsule for NASA's Orion spacecraft. The crew module capsule for the uncrewed Artemis 1 mission to the moon has been stacked on top of the Orion service module, which was also recently finished. Artemis is NASA's lunar exploration program, which hopes to return astronauts to the moon by 2024.

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In September 2019, NASA and Lockheed Martin finalized a contract for the production and operations of six Orion spacecraft missions and the ability to order up to 12 in total. The agency's Orion Production and Operations Contract (OPOC) is an IDIQ contract for NASA to issue both cost-plus-incentive fee and firm-fixed-price orders. Initially, NASA ordered three Orion spacecraft for Artemis missions III-V for \$2.7 billion. In FY22, the agency plans to order three additional Orion spacecraft for Artemis missions VI-VIII for \$1.9 billion.

Website: <https://www.lockheedmartin.com/en-us/products/orion.html>

### Space Systems – Satellites & Spacecraft

#### (Civil Communications/TV Satellites)

##### Arabsat

Arabsat is a geostationary commercial telecommunications satellite system. In April 2015, Arabsat awarded Lockheed Martin a contract for two more satellites. The first will be designated Arabsat 6A. The other is HellasSat-4/SaudiGeoSat-1 and would be jointly purchased with Saudi Arabia's King Abdulaziz City for Science and Technology (KACST). Lockheed Martin would also set up a joint venture with Saudi company TAQNIA Space to develop talent and infrastructure in Saudi Arabia for the development of space capabilities within the country. The deal is valued at \$650 million.

HellasSat-4/SaudiGeoSat-1 launched in February 2019, while Arabsat 6A launched in April 2019.

##### Inmarsat

The Inmarsat system is a constellation of telecommunications satellites that provide phone, fax, data, and compressed video to customers aboard ships, yachts, cruise vessels, oil drilling rigs, commercial aircraft, automobiles, and trucks. The Inmarsat 3 satellite is produced by Lockheed Martin, with Astrium providing the communications payload.

Inmarsat awarded Lockheed Martin a \$36.5 million contract for development and installation of technology designed to extend Inmarsat's satellite network for operation with Global System for Mobile Communications (GSM) terminals. Lockheed Martin will install three Network Control Centers, which will provide GSM users with connectivity to public terrestrial networks.

##### Intelsat

The International Telecommunications Satellite system operates global satellite communications links in some 170 nations and territories. Intelsat satellites provide a range of satellite telecommunications services,

including voice, TV, and data transmission. Intelsat Global SA approved the creation of an independent, global satellite communications company called New Skies Satellites NV, which is incorporated in the Netherlands and operates five former Intelsat spacecraft. The company began service in December 1998. Lockheed Martin produced the Intelsat 8 series.

##### JSAT

The JSAT is a geostationary commercial telecommunications satellite system. JSAT's business is centered on direct-to-home pay television broadcasting. JSAT is also increasing its presence in the maritime Mobile Satellite Services (MSS) market and the global telecommunications services market. Lockheed Martin Commercial Space Systems provides satellites for this program based on its A2100AX, a high-powered variant of the LM2100.

##### LM2100

Lockheed Martin changed the name of the A2100 to the LM2100 in September 2017 to reflect its place in its satellite family. The LM2100 is a series of commercial communications satellites developed by Lockheed Martin Space Systems. The LM2100 is geared primarily toward commercial communications applications, providing C-, Ku-, and Ka-band services. The bus also has military and scientific applications. The first LM2100 launch occurred in September 1996 aboard an Ariane 4 expendable launch vehicle. Military satellites, such as AEHF and GPS III, still account for a large percentage of LM2100 production. A total of approximately 70 A2100s/LM2100s have been produced.

##### Vinasat

This is a Vietnamese communications satellite that brings telephone, television, and data transmission services to all of Vietnam. Vinasat-1 was launched in 2008 and is operational. Vinasat-2 was launched in 2012. Lockheed Martin builds the satellites on its LM2100 satellite bus. Another Vinasat satellite could launch by the end of the decade to serve growing demand in Southeast Asia.

#### (Military Space Systems)

##### Advanced EHF

The Advanced Extremely High Frequency satellite replaces the Milstar constellation. Lockheed Martin is the Advanced EHF system prime contractor and provides the spacecraft bus and the mission control segment. Northrop Grumman is the payload integrator and develops the payload processors, nulling antennas, crosslink, RF antenna equipment, and uplink phased array. Total program costs could exceed \$6 billion over the life of the program. The U.S. Air Force has

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taken delivery of five spacecraft: the AEHF-1, -2, -3, -4, and -5. AEHF-6 was launched in March 2020. Evolved Strategic SATCOM is the current name for the AEHF follow-on. Lockheed Martin, Boeing, and Northrop Grumman have all been awarded contracts for prototypes for ESS. These have to be completed in 2025.

### Navstar

The Navstar GPS is a constellation of U.S. Navigation Signal Timing and Ranging (Navstar) satellites used for 3-D position and velocity determination. Navstar is operational, with a full constellation of 32 Navstar GPS satellites. Lockheed Martin developed the Block IIR series satellites, which began replacing Block II satellites in 1997. Block IIF satellites have been in production since 2010.

In May 2008, the USAF selected a team led by Lockheed Martin as the winner of the \$1.4 billion competition to build the next-generation GPS Space System program (GPS III) satellites. Lockheed Martin was contracted to build eight spacecraft, and will likely build two more. However, while the USAF originally planned to order all GPS III satellites from Lockheed Martin, the service reopened the competition. Lockheed Martin won this recompetition and in September 2018 was awarded a fixed-price-type production contract for 22 GPS III Follow-On satellites with a total estimated value of up to \$7.2 billion. Lockheed Martin is the prime contractor for the first batch of 10 GPS III satellites. However, the Air Force decided to open a tender for the remaining 22 satellites in hopes of reducing costs and increasing delivery speed.

### SBIRS High

The Space-Based Infrared System is a satellite system to replace aging Defense Support Program (DSP) satellites. Next-Generation OPIR is the follow-on to SBIRS High. The primary mission of SBIRS High is to provide missile defense, technical intelligence, analysis of battle situations, and initial warning of a ballistic missile attack. The SBIRS constellation consists of a combination of six dedicated geosynchronous satellites and payloads deployed on classified satellites in highly elliptical orbit (HEO). Next-Generation OPIR satellites are planned to be in orbit by 2029. In FY20, the name Evolved SBIRS was changed to Next-Generation OPIR, and a \$2.9 billion contract was awarded to Lockheed Martin in August 2018. The planned constellation is to consist of five satellites, with three in GEO and two in Polar orbits. The first GEO bird is planned to be completed in 2025, and the first Polar satellite in 2027.

### UHF Follow-On/MUOS

UHF Follow-On (UFO) satellites are ultra-high frequency (UHF) and extremely high-frequency (EHF)

communications spacecraft for Department of Defense tactical and strategic applications worldwide. The Mobile User Objective System (MUOS) satellites will increase DoD narrowband UHF capacity by approximately 1,300 percent over current capabilities.

In September 2004, a Lockheed Martin-led team won the MUOS prime contract. A contract modification awarded to Lockheed Martin in February 2011 initiated production of a fifth MUOS satellite, which was launched in June 2016. Eleven UFO spacecraft and five MUOS spacecraft have been produced.

### (Remote Sensing Satellites)

#### GOES-Next

Geostationary Operational Environmental Satellites are procured for the National Oceanic and Atmospheric Administration (NOAA) of the Department of Commerce by NASA's Goddard Space Flight Center. The National Environmental Satellite, Data, and Information Service manages GOES and all other civil operational Earth-observing satellite systems. The Kennedy Space Center provides launch operations for GOES. NASA selected Lockheed Martin in 2008 to build the GOES-R series; launch occurred in November 2016. Lockheed Martin completed GOES-S assembly in December 2016, and it launched in March 2018. The NOAA has taken delivery of 17 GOES satellites.

#### Landsat

Landsat is a U.S. remote sensing satellite system. Landsat satellites use multiple sensors to provide a comprehensive view of Earth and information not otherwise available in support of pollution research, hydrology, agriculture, oceanography, forestry, geology, and cartography. Lockheed Martin Space Systems was responsible for Landsat-6 production and Landsat-7 development. Landsat-6 was lost during launch in September 1993. Landsat-7 was launched in April 1999. In 1994, Landsat-7 was integrated with NASA's Earth Observing System. The Landsat program is now an integral part of NASA's Mission to Planet Earth. General Dynamics Advanced Information Systems built the Landsat-8 spacecraft. NASA and the U.S. Geological Survey (USGS) plan to build Landsat-9, which has a prospective launch date of 2021.

#### NOAA Polar Weather Satellites

The NOAA Polar Operational Environmental Satellites (POES) are polar-orbiting meteorological spacecraft equipped with instruments that provide data on cloud cover, surface temperature, atmospheric temperature and humidity, water-ice moisture boundaries, and photon and electron flux near Earth. In addition, the satellites collect meteorological readings from hundreds

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of data collection points on land, in the air, and at sea and relay them to data processing facilities. NOAA satellites are used to augment the U.S. DoD's Defense Meteorological Satellite Program (DMSP) weather satellites.

Nineteen NOAA satellites have been produced by Lockheed Martin. NOAA plans to deploy four Joint Polar Satellite System (JPSS) spacecraft that will provide the U.S. with satellite meteorological data through 2032. The satellites will be based on the Suomi NPP (National Polar-orbiting Partnership), a polar-orbiting weather satellite developed as part of the terminated National Polar-orbiting Operational Environmental Satellite System (NPOESS) program. The first of four satellites, JPSS-1 will be built by Ball Aerospace. The remaining three will be constructed by Northrop Grumman Innovation Systems. JPSS-1 launched in November 2017. JPSS-2 is currently being produced; options have been exercised by NASA for JPSS-3 and JPSS-4. JPSS-2, -3, and -4 are planned to be produced in 2021, 2023, and 2026, respectively.

### (Scientific Spacecraft)

#### Discovery

Under the Discovery program, NASA launches small, price-capped missions with relatively short development times to explore the solar system. In November 2014, Lockheed Martin started the assembly, test, and launch operations phase for NASA's InSight Mars lander spacecraft under the Discovery program. The InSight mission will record the first-ever measurements of the interior of "the red planet." InSight launched on May 5, 2018.

In January 2017, NASA selected Lucy as the 13th mission. Lucy, built by Lockheed Martin, will launch in 2021.

Website: <https://mars.nasa.gov/insight/>

## Unmanned Vehicle Programs

### Desert Hawk III

Desert Hawk III is a hand-launched portable UAV system. The Desert Hawk III UAS consists of a rugged air vehicle and a lightweight, portable ground station that provides operator training, autonomous preflight planning, in-flight control of plug-and-play optical and infrared sensors, and terrain avoidance measures.

### Micro Air Vehicles

These are extremely small unmanned air vehicles. DARPA selected Lockheed Martin to perform a series of micro air vehicle concept demonstrations. These systems are intended to perform battlefield surveillance and jamming missions, as well as detect chemical /

biological/nuclear agents. Potential civil applications of these systems include law enforcement, border patrol, and land management.

### Mk 30 ASW Target

This is an unmanned underwater target vehicle. Lockheed Martin Sippican is the prime contractor for the Mk 30 ASW target system. Production of the Mk 30 Mod 1 has been completed. The Mk 30 was approved for service in 1978, with a procurement objective of 60 units planned by FY86 (for 2,400 runs per year). Procurement of the Mk 30 Mod 2 abruptly ended in 2007. At one time, production of this ASW training target was projected to be 60 to 70 units. But due to the early procurement termination, only a few were built. In its stead, the U.S. Navy has launched a Service Life Extension Program (SLEP) for its Mk 30 Mod 1 targets. Meanwhile, development of the Mk 30 Mod 3 Fast Deep Target has ended.

### RQ-3A Dark Star

This is a stealth, long-range, high-endurance reconnaissance/surveillance vehicle. The program was terminated in 1999 due to rising costs and a desire to support higher-priority UAV development efforts. The Pentagon said Dark Star had little military utility – partly due to the successful development of Global Hawk – and considerable cost growth. However, the U.S. remains interested in Dark Star-like air vehicles. Lockheed Martin's Skunk Works unveiled a high-altitude unmanned aerial demonstrator at the 2006 Farnborough International Air Show that was similar in design to the Dark Star. The demonstrator crashed later that year.

### TR-X

In August 2015, Lockheed Martin Skunk Works began researching a new next-generation high-altitude, long-endurance (HALE) surveillance aircraft. Originally known internally as RQ-X or UQ-2, the new designs would combine features of the U-2 and RQ-4 Global Hawk and would be optionally manned. Around September, the designation RQ-X was changed to TR-X for tactical reconnaissance. The U.S. Air Force has no official requirement for such an aircraft at the present time. In March 2016, the company said a fleet of 30 aircraft would cost about \$3.8 billion and take 10 years to produce.

### Vector Hawk

This is a canister-launched small Unmanned Aircraft System (sUAS). Lockheed Martin is working on a reconfigurable version of the collapsible wing Vector Hawk. The Vector Hawk design features a man-packable all-in-one solution that includes the following: a fixed-wing aircraft for standard and long-endurance



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missions; a collapsible fixed-wing aircraft that can be launched from a tube from land or water; a vertical takeoff and landing aircraft; and a tiltrotor enabling VTOL with transition to forward flight.

### Warship Programs

#### LCS-1 Freedom

In May 2004, a team led by Lockheed Martin was awarded a contract to complete final design of the U.S. Navy's new Littoral Combat Ship. The contract, which includes options to build two "Flight 0" ships, was valued at \$423 million. The LCS program provides the Navy with fast, maneuverable, shallow-draft ships aimed at maximizing mission flexibility. Lockheed Martin is teamed with naval architect Gibbs & Cox and shipbuilders Bollinger Shipyards and Marinette Marine. A number of international companies, including Spanish

shipbuilder Izar, are also contributing to the execution of the Flight 0, or initial production, program.

A closely fought competition between the LCS 1 Freedom and LCS 2 Independence classes took place in 2009. This showed that the two designs were complementary rather than competitive and, in December 2010, the Navy decided to produce both of them. Accordingly, Lockheed Martin was awarded a contract for 10 LCS 1 class ships, and its competitor, Austal, was awarded a contract for 10 LCS 2 class ships. To date, ten LCS-1 Freedom class ships are in service, with six under construction. In mid-2019, Lockheed Martin withdrew the LCS Flight 1 proposal from the FFG(X) competition, which was won by Fincantieri with the FREMM design in May 2020 (see **Teaming/Competition/Joint Ventures**).

### U.S. Contract Awards

The following is a listing of major contracts awarded to Lockheed Martin from the United States government in the past two years (contracts as of press date). Note that the Description section is excerpted directly from U.S. DoD listings. For full details on contracts and their associated modifications, visit <https://www.defense.gov/Newsroom/Contracts/>

Date	Award (USD millions)	Contract #	DESCRIPTION
<b>2019</b>			
1/2/19	?	FA8604-19-D-4026	\$22,500,000 CEILING INDEFINITE-DELIVERY / INDEFINITE-QUANTITY CONTRACTS FOR THE FORMATION OF A COLLABORATIVE WORKING GROUP OF VARIOUS INDUSTRY PARTNERS TO WORK AS SINGLE EXTENDED ENTITY TO DEVELOP, EVOLVE, UPD VIA PRE-PLANNED PRODUCT IMPROVEMENT INITIATIVES, AS WELL AS MANAGE & PROVIDE CONFIGURATION CONTROL THE OPEN MISSION SYSTEMS & UNIVERSAL COMMAND & CONTROL INTERFACE STANDARDS, COLLECTIVELY REFERRED TO AS THE OPEN ARCHITECTURE STANDARDS.
1/2/19	28.9	N00024-16-C-5102	AEGIS BASELINE 9 INTEGRATION DELIVERY, TI-08 CG UPGRADE, AEGIS BASELINE 9 CAPABILITY DEVELOPMENT, CAPABILITY IMPROVEMENTS, BASELINE 9 SEA BASED NON-COOPERATIVE TARGET RECOGNITION DEVELOPMENT & RADAR ENGINEERING.
1/4/19	52.7	FA8818-00-0-1	ENGINEERING DEVELOPMENT & SUSTAINMENT SERVICES SUPPORTING THE AIR FORCE MULTI-MISSION SATELLITE OPERATION CENTER.
1/10/19	23.0	HQ0276-16-C-0001	UNDER CONTRACT LINE ITEM NUMBERS (CLIN) 0001, 0101, 0102, 0103, AND 0105, THE CONTRACTOR WILL PROVIDE POLAND AEGIS ASHORE ENGINEERING AGENT (AAEA) ENGINEERING & SECURITY SUPPORT, AAEA TEST & SITE UPDATES, RISK MITIGATION SUPPORT, AND CONTINUED COMPLETION EFFORT FOR THE AEGIS ASHORE POLAND SITE.
1/11/19	131.3	?	SUSTAINING ENGINEERING SERVICES.

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Date	Award (USD millions)	Contract #	DESCRIPTION
1/15/19	68.9	N00019-14-G-0020	DESIGN, DEVELOPMENT, DOCUMENTATION, INTEGRATION, AND TEST OF UPGRADES TO THE U.S. REPROGRAMMING LABORATORY TO EXECUTE THE MISSION DATA (MD) PROGRAMMING & REPROGRAMMING MISSION FOR THE F-35 DIGITAL CHANNELIZED RECEIVER/TECHNIQUE GENERATOR & TUNER INSERTION PROGRAM (DTIP) & NON-DTIP CONFIGURATIONS.
1/16/19	77.7	N00024-13-C-5225	PRODUCTION OF THE NAVY'S SQQ-89A(V)15 SURFACE SHIP UNDERSEA WARFARE SYSTEM (UWS).
1/16/19	7.0	N00019-16-C-0048	AUTOMATED LOGISTICS ENVIRONMENT SOFTWARE MAINTENANCE OPERATING SYSTEMS & OBSOLESCENCE AVOIDANCE IN SUPPORT OF THE LOW RATE INITIAL PRODUCTION CH-53K AIRCRAFT.
1/22/19	542.2	N00019-19-D-0015	ANCILLARY MISSION EQUIPMENT (AME) & ASSOCIATED AME INITIAL SPARES IN SUPPORT OF LOT 13 F-35 LIGHTNING II AIRCRAFT FOR THE AIR FORCE, MARINE CORPS, NAVY, NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS, AND FMS CUSTOMERS.
1/25/19	33.7	FA8553-19-D-0001	C-130J LONG-TERM SUSTAINMENT SUPPORT FOR THE ROYAL NORWEGIAN AIR FORCE.
1/28/19	10.9	N00024-14-C-5106	EXERCISE OPTIONS AEGIS BALLISTIC MISSILE DEFENSE (BMD) 4.0.2 EQUIPMENT FOR SHIPSET 23 & BMD SPARES.
1/28/19	16.1	N00019-17-C-0022	PROCUREMENT OF 4,320 LASER GUIDED TRAINING ROUNDS BDU-59B/B.
1/28/19	31.3	N00019-16-C-0004	SUSTAINMENT SERVICES FOR F-35 LIGHTNING II LRIP LOT X AIRCRAFT FOR THE GOVERNMENT OF AUSTRALIA.
1/29/19	13.1	HQ0 10-C0-0-01	PROVIDE INSTALLATION; TEST & TRAINING; LOGISTICS & MATERIAL PLANNING & ADDITIONAL PROGRAM PLANNING, TECHNICAL COORDINATION & SCHEDULING FOR AEGIS BMD 4.X ABOARD AEGIS DESTROYERS FOR THE AEGIS BMD PROGRAM OFFICE.
1/30/19	39.9	?	MODIFICATION TO CONTRACT FOR C-5 CONTRACTOR LOGISTICS SUPPORT SERVICES.
1/30/19	559.6	N00030-18-C-0100	TRIDENT (D5) MISSILE PRODUCTION & DEPLOYED SYSTEM SUPPORT.
1/31/19	100.7	FA8682-18-C-0009	DESIGN, DEVELOPMENT, INTEGRATION & TESTING OF SUBSYSTEM DESIGN CHANGES FOR THE WINGS / CHINES TO THE JOINT AIR-TO-SURFACE STANDOFF MISSILE - EXTENDED RANGE BASELINE MISSILE.
2/1/19	24.9	W31P4Q-19-F-0196	FMS (JAPAN, SAUDI ARABIA, KUWAIT, NETHERLANDS, POLAND, QATAR, ROMAN SWEDEN, UNITED ARAB EMIRATES, GERMANY & REPUBLIC OF KOREA) CONTRACT FOR PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET, ADVANCED CAPABILITY-3 & MISSILE SEGMENT ENHANCEMENT.
2/1/19	10.9	N00019-15-G-0057	MANAGEMENT, SUSTAINMENT, AND UPGRADE OF THE TACTICAL TOMAHAWK WEAPONS CONTROL SYSTEM SOFTWARE PRODUCT BASELINE & THE REQUIRED SYSTEM & SOFTWARE DOCUMENTATION FOR THE NAVY & THE GOVERNMENT OF THE UNITED KINGDOM.

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Date	Award (USD millions)	Contract #	DESCRIPTION
2/5/19	90.3	N00019-17-C-0001	IDENTIFICATION & EXECUTION OF COST REDUCTION INITIATIVES TO REDUCE THE COST OF THE F-35 LIGHTNING II AIR SYSTEM.
2/6/19	26.2	W31P4Q-13-C-0129	PROCURE COMMAND LAUNCH UNIT RETROFITS.
2/7/19	18.3	N00019-16-C-0004	THIS MODIFICATION PROVIDES FOR THE MAINTENANCE & OPERATION OF THE AUSTRALIA, CANADA, UNITED KINGDOM REPROGRAMMING LABORATORY (ACURL). THIS EFFORT INCLUDES SUPPORT FOR ALL ACURL SYSTEMS TO INCLUDE CONSUMABLES FOR THE F-35 AIRCRAFT IN SUPPORT OF THE GOVERNMENTS OF AUSTRALIA, CANADA & THE U.K.
2/8/19	52.4	N00019-14-G-0020	PROVIDES FOR ADDITIONAL ANCILLARY MISSION EQUIPMENT FOR F-35 LIGHTNING II AIRCRAFT IN SUPPORT OF THE MARINE CORPS, AIR FORCE, NAVY, NON-U.S. DEPARTMENT OF DEFENSE (NON-U.S. DOD), PARTICIPANTS & FMS CUSTOMERS.
2/11/19	211.9	N00024-18-C-5105	INCORPORATION OF REMAINING BASELINE J7 SCOPE FOR NEW-CONSTRUCTION DDG AEGIS WEAPON SYSTEM J7 BASELINE DEVELOPMENT & INTEGRATION IN SUPPORT OF THE JAPAN MARITIME SELF-DEFENSE FORCE (JMSDF). THIS MODIFICATION WILL PROVIDE FOR CONTINUED JMSDF AEGIS COMBAT SYSTEM J7 BASELINE DEVELOPMENT & INTEGRATION.
2/12/19	19.9	FA8650-19-D-2059	ADVANCED TURBINE TECHNOLOGIES FOR AFFORDABLE MISSION-CAPABILITY PHASE I.
2/13/19	?	N00421-D0-0-40	IDIQ CONTRACTS. THE ESTIMATED AGGREGATE CEILING FOR ALL CONTRACTS IS \$235,000 WITH THE COMPANIES HAVING AN OPPORTUNITY TO COMPETE FOR INDIVIDUAL ORDERS. THESE CONTRACTS PROVIDE FOR AIR TRAFFIC CONTROL & LANDING SYSTEMS OPERATIONS ONBOARD SHIP & SHORE SUPPORT SERVICES FOR THE NAVAL AIR WARFARE CENTER AIRCRAFT DIV (NAWCAD) - AIR TRAFFIC CONTROL & LANDING SYSTEMS DIVISION (NAWCAD 4.11.7).
2/13/19	14.5	N00019-18-C-1048	PROVIDE FOR INITIAL LAY-IN OF REPAIR MATERIAL FOR SEVERAL LIGHTNING II SYSTEMS AT VARIOUS DEPOTS IN SUPPORT OF THE AIR FORCE, MARINE CORPS, NAVY, NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS, AND FMS CUSTOMERS.
2/14/19	17.3	N00024-17-C-6259	EXERCISE OPTIONS FOR NAVY EQUIPMENT, ENGINEERING SERVICES & REQUIRED MATERIAL.
2/15/19	20.0	N00024-19-D-6200	ENGINEERING TECHNICAL SERVICES FOR THE DESIGN, DEVELOPMENT, TESTING, INTEGRATION, TECHNOLOGY INSERTION/REFRESHMENT & SYSTEM SUPPORT OF THE BLQ-10 ELECTRONIC WARFARE SYSTEM (TECHNOLOGY INSERTION (TI)-20, TI-22, AND TI-24) ON NEW-CONSTRUCTION & IN-SERVICE SUBMARINES.
2/19/19	8.2	N00024-15-C-5151	EXERCISE OPTIONS FOR SHIP INTEGRATION & TEST OF THE AEGIS WEAPON SYSTEM (AWS) FOR AWS BASELINES THROUGH ADVANCED CAPABILITY BUILD 16.
2/21/19	14.0	HQ0276-10-C-0001	SUPPORT AEGIS BALLISTIC MISSILE DEFENSE (BMD) CAPABILITY INSERTION UNDER CONTRACT LINE ITEM NUMBER 0160 FOR THE AEGIS BMD PROGRAM OFFICE.

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Date	Award (USD millions)	Contract #	DESCRIPTION
2/21/19	33.4	N00019-16-C-0035	THIS MODIFICATION PROVIDES FOR THE REDESIGN, INTEGRATION & TEST OF RADIO FREQUENCY SENSORS AS PART OF A COST REDUCTION INITIATIVE IN SUPPORT OF THE LONG RANGE ANTI-SHIP MISSILE.
2/26/19	846.0	N00030-19-C-0025	DESIGN, DEVELOPMENT, BUILD & INTEGRATION OF LARGE DIAMETER ROCKET MOTORS, ASSOCIATED MISSILE BODY FLIGHT ARTICLES, AND RELATED SUPPORT EQUIPMENT FOR NAVY INTERMEDIATE RANGE CONVENTIONAL PROMPT STRIKE WEAPON SYSTEM FLIGHT TEST DEMONSTRATIONS.
2/27/19	14.1	N00019-14-G-0020	DEVELOPMENT OF THE F-35 AUTOMATIC GROUND COLLISION AVOIDANCE SYSTEM (AGCAS).
2/28/19	18.9	W31P4Q-19-C-0059	FMS (AUSTRALIA, CZECH REPUBLIC, ESTONIA, FRANCE, GA, INDONESIA, IRELAND, JORDON, LITHUANIA, NEW ZEALAND, NORWAY, OMAN, QATAR, TAIWAN, TURKEY, UNITED ARAB EMIRATES, AND UKRAINE) CONTRACT FOR LIFE-CYCLE CONTRACTOR SUPPORT SERVICES FOR THE JAVELIN WEAPON SYSTEM.
2/28/19	679.9	W31P4Q-19-C-0011	FMS (REPUBLIC OF KOREA, POLAND, TAIWAN, UNITED ARAB EMIRATES, SWEDEN, SAUDI ARABIA, ROMAN GERMANY, AND NETHERLANDS) CONTRACT FOR INCIDENTAL SERVICES, HARDWARE, FACILITIES, EQUIPMENT, AND ALL TECHNICAL, PLANNING, MANAGEMENT, MANUFACTURING, AND TESTING EFFORTS TO PRODUCE PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILES IN BOTH THE COST REDUCTION INITIATIVE AN MISSILE SEGMENT ENHANCEMENT CONFIGURATION WITH ASSOCIATED GROUND SUPPORT EQUIPMENT & INITIAL SPARES.
2/28/19	13.3	FA8540-18-D-0001	SUPPORT OF PREVIOUSLY AWARDED CONTRACT FOR SNIPER COMPREHENSIVE ADVANCED TARGETING POD. THIS ORDER PROVIDES FOR THE SOFTWARE ENHANCEMENTS & DATA FOR THE DEVELOPMENT OF THE E4.X OPERATIONAL FLIGHT PROGRAM.
2/28/19	830.6	HQ0147-12-D-0001	TERMINAL HIGH ALTITUDE AREA DEFENSE ELEMENT DEVELOPMENT & SUPPORT SERVICES.
2/28/19	10.0	HQ0276-10-C-0001	PERFORM ENGINEERING & DESIGN SUPPORT SERVICES NECESSARY TO SUPPORT THE AEGIS ASHORE (AA) JAPAN FMS TECHNICAL ASSISTANCE CASE IN PREPARATION OF AA JAPAN MAIN CASE UNDER CONTRACT LINE ITEM NUMBER 0134.
2/28/19	30.8	N00019-18-C-1048	INITIAL LAY-IN OF REPAIR MATERIAL FOR TEN LIGHTNING II SYSTEMS AT VARIOUS DEPOTS IN SUPPORT OF THE AIR FORCE, MARINE CORPS; NAVY; NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS, AND FMS CUSTOMERS.
2/28/19	28.6	N00030-17-C-0017	ENGINEERING EFFORTS TO SUPPORT THE INTEGRATION OF THE TRIDENT II (D5) MISSILE & REENTRY SUBSYSTEMS INTO THE COMMON MISSILE COMPARTMENT FOR THE COLUMBIA CLASS & UNITED KINGDOM DREADNOUGHT PROGRAMS.

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Date	Award (USD millions)	Contract #	DESCRIPTION
2/28/19	108.7	N00019-14-G-0020	SUPPORT OF MODIFICATION & RETROFIT ACTIVITIES FOR DELIVERED AIR SYSTEMS FOR THE F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT FOR THE AIR FORCE, MARINE CORPS, NAVY, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANT & FMS CUSTOMERS.
3/4/19	945.9	HQ0147-19-C-0007	FMS TO THE KINGDOM OF SAUDI ARABIA (KSA). UNDER THIS UNDEFINITE CONTRACT ACTION, THE CONTRACTOR WILL PROVIDE TERMINAL HIGH ALTITUDE AREA DEFENSE (THAAD) FMS KSA PHASE I LONG LEAD ITEMS, OBSOLESCENCE, TOOLING & TEST EQUIPMENT, KEY PERSONNEL, LINE REQUALIFICATION ACTIVITIES, INITIAL TRAINING DEVELOPMENT, SYSTEM INTEGRATION LAB & TESTBEDS, THREE-LEVEL MAINTENANCE CONCEPT, EXPORTABILITY, AND EARLY ENGINEERING DEVELOPMENT.
3/4/19	8.5	W31P4Q-17-D-0026	FMS (JAPAN, SAUDI ARABIA, REPUBLIC OF KOREA, KUWAIT, QATAR, TAIWAN, UNITED ARAB EMIRATES, GERMANY & NETHERLANDS) CONTRACT FOR PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILE SUPPORT CENTER FIELD MISSILE ACTIVITIES.
3/4/19	92.8	N00039-04-C-2009	MOBILE USER OBJECTIVE SYSTEM (MUOS) COST-PLUS-AWARD FEE CONTRACT FOR ENGINEERING SERVICES, INTERIM LOGISTICS SERVICES, SPARES & ASSOCIATED MATERIAL.
3/5/19	8.8	W31P4Q-15-C-0102	PROCUREMENT OF HONEYWELL INERTIAL MEASUREMENT UNITS.
3/5/19	9.9	N00019-19-D-0015	THIS MODIFICATION INCREASES THE CEILING OF THE CONTRACT TO PROCURE ADDITIONAL PRODUCTION ANCILLARY MISSION EQUIPMENT IN SUPPORT OF F-35 NON-U.S. DEPARTMENT OF DEFENSE PARTICIPANT OPERATIONAL AIRCRAFT.
3/5/19	32.7	N00019-14-G-0020	SUPPORT OF THE F-35 LIGHTNING II JOINT STRIKE AIRCRAFT FOR THE NAVY, AIR FORCE, MARINE CORPS, NON U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
3/6/19	20.9	N00024-18-C-5218	PROVIDE INCREMENTAL FUNDING IN SUPPORT OF THE CONTINUED DEVELOPMENT, INTEGRATION & PRODUCTION OF THE NAVY'S SQQ-89A(V)15 SURFACE SHIP UNDERSEA WARFARE SYSTEM.
3/7/19	23.9	N00019-19-D-0001	ENGINEERING, LOGISTICS, TOOLING MANAGEMENT SUPPORT & TECHNICAL DATA SERVICES FOR SUSTAINMENT, OPERATION, MAINTENANCE, AND TRAINING IN SUPPORT OF ALL DOMESTIC & FOREIGN H-60 VARIANTS.
3/12/19	84.1	N68936-19-0-020	PERFORM DESIGN & DEVELOPMENT STUDIES TECHNOLOGY DEMONSTRATIONS & ENGINEERING SERVICES FOR RAPID TECHNOLOGY DEVELOPMENT FOR THE JOINT AIR-TO-SURFACE STANDOFF MISSILE, LONG RANGE ANTI-SHIP MISSILE, JOINT AIR-TO-GROUND MISSILE & HELLFIRE BASELINE WEAPON SYSTEMS.

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Date	Award (USD millions)	Contract #	DESCRIPTION
3/14/19	506.9	W31P4Q-19-C-0011	INCIDENTAL SERVICES, HARDWARE, FACILITIES, EQUIPMENT, AND ALL TECHNICAL, PLANNING, MANAGEMENT, MANUFACTURING, AND TESTING EFFORTS TO PRODUCE PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILES.
3/14/19	12.8	N00024-18-C-6408	EXERCISE AN OPTION FOR ENGINEERING & MAINTENANCE SERVICES FOR THE HEAVYWEIGHT MK 48 TORPEDO PROGRAM AT THE INTERMEDIATE MAINTENANCE ACTIVITY PEARL HARBOR.
3/18/19	14.6	N00019-14-G-0020	PROCURES 62 LOW-RATE INITIAL PRODUCTION ORGANIC LIGHT EMITTING DIODE HELMET DISPLAY UNITS & SPARES IN SUPPORT OF THE F-35 LIGHTNING II JOINT STRIKE AIRCRAFT FOR THE NAVY & MARINE CORPS.
3/19/19	264.6	N00019-15-C-0003	OPERATION & TECHNICAL SERVICES IN SUPPORT OF THE GOVERNMENT OF KOREA'S F-35 LIGHTNING II PROGRAM.
3/20/19	27.5	N00024-09-C-6247	PROCUREMENT OF FISCAL 2019 ELECTRONIC WARFARE BLQ-10 KITS & SPARES TO SUPPORT PROGRAM REQ.
3/22/19	9.1	FA8682-19-C-0012	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM) ENTERPRISE MANAGEMENT SYSTEM 8.0.
3/26/19	30.0	HQ0277-18-C-0001	CONTRACTOR WILL HAVE COMPLETED THEIR LASER SCALING & BEAM CONTROL CRITICAL DESIGN REVIEW IN SUPPORT OF THE LOW POWER LASER DEMONSTRATOR RISK REDUCTION.
3/27/19	1,135.4	W31P4Q-18-C-0049	FMS (POLAND, BAHRAIN & ROMANIA) CONTRACT FOR GUIDED MULTIPLE LAUNCH ROCKET SYSTEMS FULL RATE PRODUCTION. THE CONTRACT ALSO INCLUDES DOMESTIC PROCUREMENT SUPPORTING THE ARMY & MARINE CORPS.
3/29/19	237.5	W31P4Q-19-C-0065	DEVELOPMENT & QUALIFICATION OF A HARDWARE DESIGN MODIFICATION TO THE GUIDED MULTIPLE LAUNCH ROCKET SYSTEM.
3/29/19	9.7	N00019-1C-0-105	DEVELOP & INTEGRATE THE DIGITAL CHANNELIZED RECEIVER/TECHNIQUES GENERATOR & TUNER INSERTION PROGRAM INTO THE F-35 AUSTRALIA, CANADA, UNITED KINGDOM REPROGRAMMING LABORATORY & DELIVER OTHER DEVELOPMENT UPGRADES TO THE FACILITY.
3/29/19	18.4	W31P4Q-19-C-0038	SPIRAL 3 COMPONENT QUALIFICATION & SYSTEM DESIGN.
3/29/19	22.6	SPE4AX-17-D-9006	MODIFICATION TO A FIVE-YEAR BASE CONTRACT WITH ONE THREE-YEAR OPTION PERIOD, AND ONE TWO-YEAR OPTION PERIOD TO INCREASE THE MANAGEMENT FEE BASED ON INCREASED REQ FOR THE AIR FORCE INDUSTRIAL PRODUCT-SUPPORT VENDOR (IPV) PROGRAM.
4/1/19	17.9	N00030-18-C-0023	PROVIDE THE UNITED KINGDOM (UK) WITH ENGINEERING & TECHNICAL SUPPORT SERVICES & DELIVERABLE MATERIALS FOR THE TRIDENT II FLEET BALLISTIC MISSILE SYSTEM.
4/1/19	2,457.4	HQ0147-17-C-0032	PRODUCTION OF THAAD INTERCEPTORS & ASSOCIATED ONE-SHOT DEVICES TO SUPPORT THE U.S. GOVERNMENT & THE KINGDOM OF SAUDI ARABIA FMS CASE REQ.

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Date	Award (USD millions)	Contract #	DESCRIPTION
4/1/19	151.3	N00019-17-C-0001	PROCUREMENT OF LONG-LEAD ITEMS FOR THE MANUFACTURE & DELIVERY OF 21 F-35 LIGHTNING II LOT 14 LOW-RATE INITIAL PRODUCTION AIRCRAFT FOR THE GOVERNMENTS OF AUSTRALIA (15) & NORWAY (6).
4/1/19	13.4	N00024-18-C-4208	EXERCISE OPTIONS TO PROCURE MACHINERY CONTROL SYSTEM (MCS) CONSOLES & CABINETS FOR THE DDG 51 NEW CONSTRUCTION SHIP PROGRAM & DDG 51 MIDLIFE MODERNIZATION PROGRAM & ASSOCIATED LAND BASED ENGINEERING SITES.
4/2/19	7.3	N00019-16-C-0048	PRODUCTION SYSTEMS ENGINEERING & PROGRAM MANAGEMENT SERVICES FOR CALENDAR YEAR 2019 IN SUPPORT OF CH-53K LOW-RATE INITIAL PRODUCTION.
4/9/19	7.4	HQ0276-10-C-0001	SOFTWARE MAINTENANCE SUPPORT, IDENTIFY, ANALYZE, CORRECT, TEST, AND MERGE / REBASE OF THE COMMON SOURCE LIBRARY INFRASTRUCTURE & SOFTWARE DISCREPANCIES ORIGINATING FROM HERITAGE AEGIS BALLISTIC MISSILE DEFENSE COMPUTER PROGRAMS.
4/11/19	9.5	N00019-14-C-0050	SUPPORT OF THE VH-92A AIRCRAFT. THIS MODIFICATION PROVIDES FOR THE INTEGRATION OF THE MISSION COMMUNICATIONS SYSTEM VERSION 3.0 HARDWARE CHANGES.
4/16/19	879.0	FA8214-19-D-0001	REENTRY SYSTEM/REENTRY VEHICLES (RS/RV) SUBSYSTEM SUPPORT. THIS CONTRACT PROVIDES FOR SUSTAINMENT ENGINEERING, MAINTENANCE ENGINEERING, AGING SURVEILLANCE, MODIFICATION OF SYSTEMS & EQUIPMENT, SOFTWARE MAINTENANCE, DEVELOPMENTAL ENGINEERING, PRODUCTION ENGINEERING, AND PROCUREMENT OF THE MINUTEMAN III RS/RV SUBSYSTEM & RELATED SUPPORT EQUIPMENT.
4/16/19	13.6	N00019-16-C-0004	PROCURE F-35 LOW OBSERVABLE HEALTH ASSESSMENT SYSTEM (LOHAS) BASELINE FILE GENERATION, AUTOMATED LOHAS BASELINE FILE TOOL, REPAIR SHAPE OPTIMIZATION & THE LOHAS LOW OBSERVABLE MAINTENANCE & MANAGEMENT MODULE.
4/17/19	23.4	W58RGZ-19-F-0381	MAINTENANCE & OVERHAUL OF THE UH-60 BLACK HAWK HELICOPTER.
4/19/19	9.4	SPRPA1-19-F-LV07	RECEIVER PROCESSORS.
4/19/19	20.2	N00024-19-C-4109	COMMON ENGINE CONTROLLERS, ENGINEERING SERVICES, AND SUPPORT FOR ENGINEERING SERVICES FOR THE DDG 51 NEW CONSTRUCTION SHIP PROGRAM & DDG 51 MIDLIFE MODERNIZATION PROGRAM.
4/22/19	362.7	W31P4Q-19-C-0077	MULTIPLE LAUNCH ROCKET SYSTEM M270A0 TO M270A2 LAUNCHERS; M270A2 FLYAWAY PACKAGE KIT; M270A2 AUTHORIZED STOCKAGE LIST KITS, M270A2 PRODUCTION LINE SPARES KITS, PRODUCTION LINE RESTART COSTS, IMPROVE LAUNCHER MECHANICAL SYSTEM TEST STAND UPGRADE SERVICES, PROPOSAL COSTS, AND OVER & ABOVE REPAIR SERVICES.

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4/23/19	117.1	N00019-14-G-0020	AIR VEHICLE INITIAL SPARES TO INCLUDE DEPLOYMENT SPARES PACKAGE, AFLOAT SPARES PACKAGE, AND ASSOCIATED CONSUMABLES TO SUPPORT AIR VEHICLE DELIVERY SCHEDULES FOR THE F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT IN SUPPORT OF THE AIR FORCE MARINE CORPS.
4/24/19	11.1	W900KK-14-C-0020	NATIONAL CYBER RANGE END-OF-LIFE/END-OF-SERVICE ISSUES.
4/25/19	90.8	N00019-18-C-1048	STAND UP ORGANIC DEPOT REPAIR CAPABILITIES FOR THE F-35 INTEGRATED CORE PROCESSOR.
4/25/19	723.6	W31P4Q-18-C-0130	DOMESTIC & FMS (LEBANON, NETHERLANDS & FRANCE) CONTRACT TO PROCURE A VARIETY OF HELLFIRE II MISSILE VARIANTS.
4/26/19	9.1	N00024-15-C-5151	AEGIS ASHORE SUPPORT & SHIP INTEGRATION & ENGINEERING OF THE AEGIS WEAPON SYSTEM (AWS) FOR AWS BASELINES THROUGH ADVANCED CAPABILITY BUILD (ACB) 16.
4/26/19	26.9	N00024-19-C-6400	PROCUREMENT OF NAVY ENGINEERING SERVICES.
4/26/19	13.9	N00024-16-C-5102	AEGIS SPEED TO CAPABILITY DEVELOPMENT.
4/29/19	30.8	W31P4Q-15-C-0043	FMS (SAUDI ARABIA) CONTRACT FOR HELLFIRE GUIDED MISSILE LAUNCHER & ELECTRONIC ASSEMBLY.
4/29/19	1,148.8	N00019-19-C-1022	CONTRACT FOR SUSTAINMENT SERVICES IN SUPPORT OF THE F-35 LIGHTNING II AIRCRAFT FOR THE AIR FORCE, NAVY, NON-U.S. DEPARTMENT OF DEFENSE PARTICIPANTS & FMS CUSTOMERS.
5/3/19	7.5	N00019-18-C-1048	ESTABLISH ORGANIC DEPOT COMPONENT REPAIR CAPABILITIES FOR THE F-35 LIGHTNING II AIR INTERCEPTOR SYSTEM IN SUPPORT OF THE AIR FORCE, MARINE CORPS & NAVY.
5/7/19	84.9	N00024-13-C-5116	AEGIS COMBAT SYSTEM ENGINEERING, ARCHITECTURE, DEVELOPMENT, INTEGRATION & TEST; NAVAL INTEGRATED FIRE CONTROL-COUNTER INTEGRATION & TEST & TRAINING, STUDIES & COMPUTER PROGRAM MAINTENANCE.
5/10/19	10.5	W31P4Q-16-C-0102	DEVELOP & QUALIFY A MODULAR ROCKET POD & LAUNCH TUBES FOR THE GUIDED MULTIPLE LAUNCH ROCKET SYSTEM THAT WILL BE ADAPTABLE TO FUTURE MUNITIONS.
5/14/19	18.5	N00019-16-C-0033	PROCUREMENT OF DIMINISHING MANUFACTURING SOURCES REDESIGN ACTIVITIES IN SUPPORT OF THE F-35 AIRCRAFT.
5/15/19	11.9	N00019-14-G-0020	MODIFICATION KITS & SPECIAL TOOLING REQUIRED FOR THE MODIFICATION & RETROFIT OF THE F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT IN SUPPORT OF THE MARINE CORPS, AIR FORCE, NAVY, NON-U.S. DEPARTMENT OF DEFENSE (NON-U.S. DOD) PARTICIPANTS & FMS CUSTOMERS.
5/16/19	12.7	N00024-11-C-2300	CLASS DESIGN & OPTION FOR POST DELIVERY SUPPORT FOR USS <i>ST. LOUIS</i> (LCS 19).
5/17/19	14.4	N00024-18-C-5109	AEGIS WEAPON SYSTEM INTEGRATED LOGISTICS SUPPORT & SUSTAINMENT SERVICES FOR ADVANCED CAPABILITY BUILD 16/TECHNICAL INSERTION 12 HYBRID (ACB 16/TI12H) & LEGACY BASELINES & EQUIPMENT.



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Date	Award (USD millions)	Contract #	DESCRIPTION
5/17/19	21.4	N00019-18-C-1048	PROVIDE INITIAL REPAIR MATERIAL FOR THE ELECTRONIC WARFARE DIGITAL CHANNELIZED RECEIVER/TECHNIQUES GENERATOR TUNER INSERTION PROGRAM, FUEL & LIFE SUPPORT SYSTEMS AT MULTIPLE F-35 DEPOTS WITHIN THE CONTINENTAL U.S.
5/17/19	1,126.2	N00019-16-C-0048	PROCUREMENT OF 12 LOT II & LOT III LOW-RATE INITIAL PRODUCTION CH-53K AIRCRAFT, INCLUDING PROGRAMMATIC SUPPORT, LOGISTICS SUPPORT, AND PECULIAR SUPPORT EQUIPMENT.
5/21/19	63.1	N00024-13-C-5225	PROVIDE INCREMENTAL FUNDING IN SUPPORT OF THE CONTINUED DEVELOPMENT, INTEGRATION, AND PRODUCTION OF THE NAVY'S SQQ-89A(V)15 SURFACE SHIP UNDERSEA WARFARE (USW) SYSTEM.
5/22/19	11.3	N00019-19-C-0004	DEPLOYMENT & OPERATION OF TEST AIRCRAFT IN SUPPORT OF THE F-35 LIGHTNING II DEVELOPMENT PRODUCTION, AND SUSTAINMENT FOR THE AIR FORCE, NAVY, AND NON-U.S. DOD PARTICIPANTS.
5/23/19	16.4	FA8615-12-C-6016	SUPPORT THE TAIWAN F-16 PEACE PHOENIX RISING PROGRAM.
5/28/19	248.9	N68335-19-D-0075	SUSTAINMENT EQUIPMENT PROCURED UNDER 14 FUNCTIONAL AREAS IN SUPPORT OF NAVY FLEET READINESS CENTERS.
5/30/19	12.9	W52P1J-19-F-0466	DOMESTIC & FMS (U.K.) CONTRACT FOR REFURBISHMENT SUPPORT SERVICES FOR THE APACHE ATTACK HELICOPTER.
5/31/19	29.3	N00024-13-C-6292	PRODUCTION OF TB-37 MULTI-FUNCTION TOWED ARRAY PRODUCTION UNITS, ACCESSORIES, SHIPPING PRODUCTS, AND SPARE MODULES.
5/31/19	9.3	N00024-15-G-230	PROVIDE ADVANCE PLANNING, ACCOMPLISHMENT & EMERGENT AVAILABILITIES FOR LCS-15 POST SHAKEDOWN AVAILABILITY.
6/3/19	56.9	N00024-C6-4-12	EXERCISE OPTION YEAR THREE FO THE PRODUCTION OF MK 48 MOD 7 GUIDANCE & CONTROL (G&C) SECTIONS, MK 48 MOD 7 COMMON BROADBAND ADVANCED SONAR SYSTEM (CBASS) FUNCTIONAL ITEM REPLACEMENT (FIR) KITS, SPARES, PRODUCTION SUPPORT MATERIAL, AND RELATED ENGINEERING SERVICES & HARDWARE REPAIR SUPPORT.
6/7/19	1,808.5	N00019-19-C-0010	DESIGN MATURATION & DEVELOPMENT OF BLOCK 4 CAPABILITIES IN SUPPORT OF THE F-35 LIGHTNING II PHASE PRE-MODERNIZATION FOR THE AIR FORCE, NAVY, MARINE CORPS & NON-U.S. DOD PARTICIPANTS.
6/10/19	542.0	N00019-14-C-0050	SUPPORT OF THE PRESIDENTIAL HELICOPTER REPLACEMENT PROGRAM (VH-92A). THIS MODIFICATION EXERCISES AN OPTION FOR THE PROCUREMENT OF SIX LRIP LOT 1 PRESIDENTIAL HELICOPTERS, AS WELL AS INTERIM CONTRACTOR SUPPORT, INITIAL SPARES, SUPPORT EQUIPMENT, AND SYSTEM PARTS REPLENISHMENT.
6/16/19	76.7	N00024-18-C-5103	AEGIS DEVELOPMENT & TEST SITES OPERATION & MAINTENANCE AT THE COMBAT SYSTEMS ENGINEERING DEVELOPMENT SITE, SPY-1A TEST FACILITY & NAVAL SYSTEMS COMPUTING CENTER.

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Date	Award (USD millions)	Contract #	DESCRIPTION
6/19/19	14.9	W58RGZ-17-C-0009	PROCURE THE POST GREEN DD250 AIRCRAFT SUPPORT, STORAGE & MAINTENANCE FOR UH-60M AIRCRAFT FOR THE SAUDI ARABIAN MINISTRY OF THE NATIONAL GUARD.
6/21/19	16.3	N00024-19-C-6269	PROCUREMENT OF MULTIFUNCTION MODULAR MASTS FOR NE CONSTRUCTION VA-CLASS BLOCK V HULLS, SPARES & REPAIRS.
6/24/19	561.8	W31P4Q-19-C-0092	FMS (BAHRAIN, POLAND & ROMANIA) CONTRACT FOR PRODUCTION OF ARMY TACTICAL MISSILE GUIDED MISSILE & LAUNCHING ASSEMBLY SERVICE LIFE EXTENSION PROGRAM PRODUCTION 3.
6/25/19	91.3	W58RGZ-19-D-0079	PROVIDE ENGINEERING & OTHER SUPPORT SERVICES FOR ALL VERSIONS OF THE H-60 BLACKHAWK.
6/27/19	7.8	N00019-14-G-0004	PROCURE 36 NACELLES PRODUCTION KITS IN SUPPORT OF THE H-53 AIRCRAFT.
6/27/19	106.1	W52P1J-17-D-0043	DOMESTIC & FMS CONTRACT FOR MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT/PILOT NIGHT VISION SENSOR SYSTEMS, SUBCOMPONENT PRODUCTION & TECHNICAL SERVICES FOR THE APACHE ATTACK HELICOPTER.
6/27/19	7.1	FA8810-08-C-0002	HIGHLY ELLIPTICAL ORBIT (HEO) OPERATIONAL MIGRATION TO ENTERPRISE GROUND SERVICES (EGS) STEP 1 DEVELOPMENT & TEST CAMPAIGN SUPPORT.
6/28/19	15.9	F04701-02-C-0002	MAKE CHANGES TO THE AEHF MISSION PLANNING ELEMENT SOFTWARE TO PROVIDE CAPABILITY IMPROVEMENTS.
7/1/19	7.1	N00024-19-C-5602	COMBAT SYSTEM SHIP INTEGRATION & TEST ON GUIDED MISSILE FRIGATE (FFG(X)) NEW-CONSTRUCTION SHIPS.
7/2/19	7.1	N00019-19-G-0029	NON-RECURRING ENGINEERING, DEVELOPMENT, TOOLING, MANUFACTURING, QUALIFICATION, REPORTING & DELIVERY OF NOSE, MAIN, INTERMEDIATE & TAIL GEARBOX GEARS IN SUPPORT OF THE LOW RATE INITIAL PRODUCTION OF THE 53K AIRCRAFT.
7/2/19	21.7	N00019-19-G-0029	THIS ORDER PROCURE THE CH-53K DATA TRANSFER UNIT & DEFENSIVE ELECTRONIC COUNTERMEASURE SYSTEM REPLACEMENT PROGRAM AND INCLUDES NECESSARY NON-RECURRING ENGINEERING (NRE) TO REPLACE EXISTING SUBSYSTEMS WITHIN THE CH-53K PRODUCTION AIRCRAFT.
7/2/19	348.2	N00019-17-C-0001	NON-RECURRING, SPECIAL TOOLING & SPECIAL TEST EQUIPMENT IN SUPPORT OF LOW-RATE INITIAL PRODUCTION F-35 LIGHTNING II AIRCRAFT FOR THE AIR FORCE, NAVY, MARINE CORPS, NON-U.S. DEPARTMENT OF DEFENSE PARTNERS & FMS CUSTOMERS.
7/3/19	174.9	N00019-19-G-0011	ENGINEERING, TESTING, PRODUCT SUPPORT & ANCILLARY SUP TO UPDATE THE CURRENT LONG RANGE ANTI-SHIP MISSILE COMPONENTS & SYSTEMS REQUIRED TO ACHIEVE OBJECTIVE REQ IN THE OFFENSIVE ANTI-SURFACE WARFARE INCREMENT 1 CAPABILITY DESCRIPTION DOCUMENT.

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Date	Award (USD millions)	Contract #	DESCRIPTION
7/8/19	41.3	N00019-19-F-2474	DESIGN, PROCUREMENT & INTEGRATION OF FLIGHT TEST INSTRUMENTATION & DATA PROCESSING SOLUTIONS FOR F-35 LIGHTNING II DEVELOPMENT TEST AIRCRAFT TO SUPPORT THE TECH REFRESH-3 & THE FOLLOW ON MODERNIZATION BLOCK 4 MISSION SYSTEMS CONFIGURATION.
7/9/19	11.1	W31P4Q-19-C-0038	ENGINEERING SERVICES FOR THE SPIRAL 3 TEST & EVALUATION PLAN, SPIRAL 3 SYSTEM HARDWARE QUALIFICATION, AND WORLDWIDE AMMUNITION REPORTING SYSTEM REQ TO SUPPORT THE JAVELIN MISSILE SYSTEM.
7/9/19	21.2	N00019-14-G-0020	THIS MODIFICATION PROVIDES FOR MODIFICATION KITS, SPECIAL TOOLING & INSTALLATION LABOR FOR THE MODIFICATION & RETROFIT OF F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT FOR THE MARINE CORPS, NAVY, AIR FORCE, NON-U.S. DOD PARTICIPANTS, AND FMS CUSTOMERS.
7/15/19	492.1	W31P4Q-19-C-0101	HIGH MOBILITY ARTILLERY ROCKET SYSTEMS M142 LAUNCHERS & SUPPORT REQ TO INCLUDE PRODUCTION DATA DEFINITION PACKAGE MAINTENANCE, TRAINING, SUPPORT EQUIPMENT, QUALIFICATION TESTING, INITIAL SPARES/REPAIR PARTS & SOFTWARE.
7/17/19	23.6	FA86 1-C0-0-09	PROVIDING A REPLACEMENT ASSM ANTI-JAM GPS RECEIVER WITH A NEW JASSM ANTI-JAM GPS RECEIVER (JAGR) DUE TO OBSOLESCENCE.
7/17/19	9.6	N00024-C6-3-08	ENGINEERING SUPPORT SERVICES IN SUPPORT OF UNMANNED UNDERSEA VEHICLE (UUV) SUBSYSTEM DEVELOPMENT.
7/18/19	34.6	N00019-19-C-0010	DEVELOP & DELIVER AN ECP ENABLE THE PRODUCTION CUT-IN OF THE FUSELAGE STATION 425 BULKHEAD STRUCTURAL MODIFICATION REQUIRED F F-35A & F-35C TO ALLOW FULL-ENVELOPE INTERNAL CARRIAGE OF AFT HEAVY WEAPONRY.
7/18/19	8.2	N00024-18-C-5392	EXERCISE OPTIONS FOR TECHNICAL & FIELD ENGINEERING SERVICES & A COST-ONLY LINE ITEM FOR TRAVEL IN SUPPORT OF SURFACE NAVY LASER WEAPON SYSTEM INCREMENT 1, HIGH ENERGY LASER & INTEGRATED OPTICAL-DAZZLER WITH SURVEILLANCE (HELIOS) SYSTEM.
7/18/19	22.5	N00024-C5-1-02	EXERCISE OPTIONS FOR AEGIS BASELINE 9 INTEGRATION & DELIVERY, AEGIS BASELINE 5.4 & 9A2A POST-CERTIFICATION SUPPORT.
7/18/19	77.7	N00019-17-C-0001	PROCUREMENT OF SOFTWARE DATA LOADS WELL AS LONG LEAD MATERIAL & PARTS FOR THE DELIVERY OF F-35 LIGHTNING II LOW-RATE INITIAL PRODUCT 12, 13 & 14.
7/19/19	1,473.9	HQ0147-17-C-0032	PROCUREMENT OF TERMINAL HIGH ALTITUDE AREA DEFENSE (THAAD) INTERCEPTOR SUPPORT ITEMS IN SUPPORT OF THE FMS (FM CASE TO THE KINGDOM OF SAUDI ARABIA (KSA)).
7/22/19	15.7	N00024-16-C-5136	AEGIS WEAPONS SYSTEM DESIGN REQ IN SUPPORT OF GUIDED MISSILE FRIGATE (FFG(X)).
7/23/19	9.8	SPRPA1-17-G-C101	H-53 HYDRAULIC FLUID TANKS.
7/24/19	27.4	N00024-15-D-5217	165 TECHNICAL INSERTION SIXTEEN (TI-16) COMMON DISPLAY SYSTEM (CDS) VARIANT A WATER-COOLED PRODUCTION CONSOLES.

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Date	Award (USD millions)	Contract #	DESCRIPTION
7/26/19	9.5	FA8629-14-C-2403	INITIAL CAPABILITIES UPGRADES. THIS CONTRACT MODIFICATION PROVIDES FOR THE ENGINEERING ANALYSIS & INTEGRATION (OR REMOVAL) OF CAPABILITIES SUCH AS SITUATIONAL AWARENESS DATA LINK, AUTOMATIC DIRECTION FINDER, DISTRIBUTED APERTURE INFRARED COUNTERMEASURES & ELECTRO-OPTICAL / INFRARED WITH PRIMARY FLIGHT REFERENCE SYMBOLOGY.
7/29/19	13.2	?	SPACE BASED INFRARED SYSTEM CONTRACTOR LOGISTICS SUPPORT FOR STUDIES AN MODIFICATION PROJECTS.
7/31/19	799.9	FA8615-19-C-6053	F-16 AIRCRAFT PRODUCTION. THIS CONTRACT PROVIDES FOR THE PRODUCTION & SUPPORT OF 14 SLOVAK REPUBLIC F-16 BLOCK 70 AIRCRAFT.
7/31/19	315.6	FA8615-19-C-6051	F-16 CONTRACTOR LOGISTICS SUPPORT PHASE IV. THIS CONTRACT PROVIDES THE CONTRACTOR LOGISTICS SUPPORT & ESTABLISH A TRAINING DETACHMENT AT BALAD BASE, IRAQ, FOR THE GOVERNMENT OF IRAQ.
8/1/19	18.8	N00024-15-G-2303	PROVIDE ENGINEERING & MANAGEMENT SERVICES FOR LCS-15 POST SHAKEDOWN AVAILABILITY.
8/6/19	405.8	N00030-19-C-0025	DESIGN, DEVELOPMENT, BUILD & INTEGRATION OF LARGE DIAMETER ROCKET MOTORS, ASSOCIATED MISSILE BODY FLIGHT ARTICLES, AND RELATED SUPPORT EQUIPMENT FOR ARMY INTERMEDIATE RANGE CONVENTIONAL PROMPT STRIKE WEAPON SYSTEM FLIGHT TEST DEMONSTRATIONS.
8/6/19	16.5	N00019-19-D-0014	THIS MODIFICATION INCREASES THE CEILING OF THE CONTRACT TO PROCURE CONSUMABLE PARTS & MATERIAL, TECHNICAL PUBLICATIONS & ENGINEERING SERVICES IN SUPPORT OF THE C/KC-130J AIRCRAFT.
8/7/19	11.5	N00030-18-C-0045	MODIFICATION FOR NEW SCOPE UNDER PREVIOUSLY AWARDED CONTRACT TO PROVIDE U.S. TRIDENT II STRATEGIC WEAPON SYSTEM EFFORTS FOR THE NAVIGATION SUBSYSTEM.
8/9/19	176.3	N00383-19-D-VM01	REPAIR OF 1,672 DIFFERENT HEAD-OF-FAMILY PART NUMBERS IN SUPPORT OF THE AEGIS SPY-1 WEAPON SYSTEM.
8/12/19	107.3	N00019-16-C-0048	LONG LEAD ITEMS FOR SIX CH-53K LOW-RA INITIAL PRODUCTION LOT 4 AIRCRAFT.
8/13/19	15.6	FA8810-13-C-0002	SPACE-BASE INFRARED SYSTEM CONTRACTOR LOGISTICS SUPPORT FOR FISCAL 2019 PROJECTS.
8/13/19	99.0	FA8682-19-0-003	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM) FMS PRODUCTION SUPPORT.
8/14/19	11.1	W31P4Q-19-C-0038	ENGINEERING SERVICES FOR THE SPIRAL 3 TEST & EVALUATION PLAN, SPIRAL 3 SYSTEM HARDWARE QUALIFICATION, AND WORLDWIDE AMMUNITION REPORTING SYSTEM REQ TO SUPPORT THE JAVELIN MISSILE SYSTEM.
8/15/19	55.9	N00024-19-C-5603	COMBAT SYSTEM ENGINEER SUPPORT ON THE SHIP SELF-DEFENSE SYSTEM (SSDS).
8/15/19	80.0	N00024-14-C-5106	FISCAL 2019 AEGIS MODERNIZATION (AMOD) PRODUCTION REQ.
8/16/19	27.3	N00024-18-C-6258	EXERCISE OPTION FOR ENGINEER SERVICES & OTHER DIRECT COSTS IN SUPPORT OF THE INTEGRATED SUBMARINE IMAGING SYSTEM.

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8/19/19	13.3	N00030-19-C-0045	MODIFICATION FOR NEW SCOPE UNDER PREVIOUSLY AWARDED CONTRACT TO PROVIDE U.S. TRIDENT II STRATEGIC WEAPON SYSTEM EFFORTS FOR THE NAVIGATION SUBSYSTEM.
8/19/19	12.0	N00019-14-G-0020	THIS AWARD PROCURES MODIFICATION KITS FOR MODIFICATION & RETROFIT OF DELIVERED F-35 LIGHTNING II JOINT STRIKE FIGHTERS FOR THE AIR FORCE & MARINE CORPS.
8/19/19	32.1	N00019-14-G-0020	THIS AWARD PROCURES MODIFICATION KITS & SPECIAL TOOLING FOR MODIFICATION & RETROFIT OF DELIVERED F-35 LIGHTNING II JOINT STRIKE FIGHTERS FOR THE AIR FORCE, MARINE CORPS, NAVY, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
8/20/19	48.3	N00019-19-G-0029	SPARE PARTS TO REPAIR & MAINTAIN CH-53K LOW-RATE INITIAL PRODUCTION LOT THREE CONFIGURATION AIRCRAFT.
8/23/19	2,426.3	N00019-19-D-0015	F-35 LIGHTNING II JOINT STRIKE FIGHTER INITIAL SPARES FOR THE MARINE CORPS, NAVY, AIR FORCE, NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS, AND FMS CUSTOMERS.
8/27/19	42.7	W52P1J-19-F-0634	DOMESTIC & FMS (UNITED KINGDOM) CONTRACT TO PROCURE MODERNIZED RADAR FREQUENCY INTERFEROMETER KITS & SPARES.
8/27/19	44.3	N00039-19-D-0006	THE CONTRACT IS IN SUPPORT OF NAVY & OTHER AGENCIES' RADIANT MERCURY (RADMERC) OPERATIONS TO SECURELY TRANSFER DATA ACROSS DIFFERENT SECURITY DOMAINS. THE CONTRACT PROVIDES FOR INSTALLATION, PROGRAM MANAGEMENT, MAINTENANCE, MODERNIZATION & SUSTAINMENT OF RADMERC SYSTEMS. THE CONTRACT WILL ALSO PROVIDE SYSTEM SECURITY AUTHORIZATION SUPPORT, AND LOGISTICS & TRAINING SERVICES.
8/27/19	25.2	N00019-16-C-0004	F-35 LIGHTNING II JOINT STRIKE FIGHTER REGIONAL MAINTENANCE REPAIR & UPGRADE FACILITY FOR THE GOVERNMENT OF JAPAN UNDER THE FMS PROGRAM.
8/29/19	25.2	W900KK-19-C-0052	PROCUREMENT OF ARMOR CORPS ADVANCED GUNNERY TRAINING SYSTEMS & CONTRACTOR LOGISTICS SUPPORT.
8/30/19	326.9	HQ0276-19-C-0001	DESIGN, DEVELOP, INTEGRATE, TEST & CERTIFY THE AEGIS BALLISTIC MISSILE DEFENSE (BMD) 6.0 CAPABILITY. AEGIS BMD 6.0 PROVIDES AN INCREASED BMD CAPABILITY BY INCORPORATING THE AIR & MISSILE DEFENSE RADAR, NOW DESIGNATED SPY-6, FOR INTRODUCTION ON THE FIRST DDG FLIGHT III.
9/3/19	50.3	N00024-15-C-5151	EXERCISE OPTIONS FOR SHIP INTEGRATION & TEST OF THE AEGIS WEAPON SYSTEM (AWS) FOR AWS BASELINES THROUGH ADVANCED CAPABILITY BUILD 16.
9/4/19	8.1	W31P4Q-18-C-0070	JOINT-AIR-TO-GROUND MISSILE ENGINEERING SERVICES.
9/6/19	266.2	N00019-19-C-0074	SUPPORT OF F-35 LIGHTNING II AIRCRAFT FOR THE AIR FORCE, NAVY, MARINE CORPS & NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.

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Date	Award (USD millions)	Contract #	DESCRIPTION
9/9/19	14.9	FA8533-18-D-0002	BASELINE CHANGE REQUEST/ECP WHICH UPGRADES 99 COMMON ORGANIZATIONAL LEVEL TESTERS & ACCESSORY KITS TO THE NEW BASELINE REMOVING OBSOLESCENCE ISSUES.
9/10/19	40.6	W52P1J-17-D-0043	MODERNIZED TURRET KITS FOR THE APACHE ATTACK HELICOPTER.
9/12/19	185.6	W31P4Q-19-C-0076	JAVELIN WEAPON SYSTEM FULL RATE PRODUCTION, ALL UP ROUNDS, COMMAND LAUNCH UNIT RETROFITS, BATTERY COOLANT UNITS, JAVELIN OUTDOOR TRAINERS, OUTDOOR TRAINER INSTRUCTION STATION, TRIPODS, JAVELIN VEHICLE LAUNCHER & ELECTRONICS.
9/12/19	12.9	N64267-18-C-0132	AEGIS DESIGN AGENT FIELD ENGINEERING SERVICES.
9/12/19	10.9	N00024-15-G-2303	PROVIDE ADVANCE PLANNING, ACCOMPLISHMENT & EMERGENT AVAILABILITIES FOR LCS-17 POST SHAKEDOWN AVAILABILITY.
9/19/19	9.8	FA8553-19-D-0004	FOR C-130J COUNTRY SPECIFIC TECHNICAL ORDERS (CSTOS) & OTHER RELATED MAINTENANCE PUBLICATIONS.
9/20/19	24.0	N00019-19-G-0029	PROCUREMENT OF FIVE INFRARED RECEIVERS & EIGHT CONTROL PROCESSORS IN SUPPORT OF THE F/A-18 INFRARED SEARCH & TRACK SYSTEM.
9/20/19	13.5	W900KK-14-C-0020	FOR TECHNICAL CYBERSECURITY ARCHITECTURE.
9/20/19	24.7	N00024-19-C-6120	DEVELOP THE FIRST PRODUCTION UNIT FABRICATION & QUALIFICATION OF THE TB-37X MULTI-FUNCTION TOWED ARRAY (MFTA) SYSTEM.
9/23/19	9.7	W900KK-19-C-0057	PROCUREMENT OF MOBILE M1A1 SITUATIONAL AWARENESS PLATOON MOBILE ADVANCED GUNNERY TRAINING SYSTEM, MOBILE PRE-BRIEF, AFTER ACTION REVIEW CAPABILITY, SPARE PARTS PACKAGE, INSTALLATION, ON-SITE TESTING, TRAINING, DESIGN, DEVELOPMENT, TEST, MANAGEMENT, DOCUMENTATION, HARDWARE, SOFTWARE, AND SPARES.
9/23/19	17.2	N68335-19-C-0248	SUPPORT OF THE E-2D ADVANCED HAWKEYE PROGRAM TO PROVIDE DEPOT LEVEL REPAIR CAPABILITY FOR THE APY-9 RADAR LINE REPLACEABLE MODULES (LRMS).
9/23/19	352.7	N00019-19-D-0015	THIS MODIFICATION INCREASES THE CEILING & SCOPE OF THE CONTRACT TO INCLUDE THE PROCUREMENT OF LOT 12-14 GENERATION 3 HELMET MOUNTED DISPLAYS IN SUPPORT OF THE F-35 LIGHTNING II PROGRAM.
9/25/19	281.1	W31P4Q-19-C-0058	ACQUIRE 18 SENTINEL A4 RADAR SYSTEMS.
9/26/19	18.4	W52P1J-19-F-0793	FMS (NETHERLANDS & UNITED ARAB EMIRATES) FFP CONTRACT FOR MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT PILOT NIGHT VISION SENSOR SYSTEMS, SUBCOMPONENT PRODUCTION, AND TECHNICAL SERVICES FOR THE APACHE ATTACK HELICOPTER.
9/26/19	8.4	SPRPA1-19-F-LV0J	CONTRACT FOR RADAR DATA PROCESSORS & ANTENNA PEDESTALS.
9/26/19	9.1	FA8750-17-C-0051	SENSOR & DATA SOURCES INTEGRATION ENTITLED MULTI-INT OPERATIONS TECHNOLOGY & UNIFICATION RESEARCH (MINOTAUR).
9/26/19	27.6	SPE4A1-15-G-0005	DELIVERY ORDER AGAINST A FIVE-YEAR BOA FOR TURRET ASSEMBLIES.

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Date	Award (USD millions)	Contract #	DESCRIPTION
9/27/19	31.7	HR0011-16-C-0110	PROVIDE CONTINUED SUPPORT FOR A RESEARCH PROJECT UNDER THE HYPERSONIC AIR-BREATHING WEAPON CONCEPT, PHASE II PROGRAM.
9/27/19	113.2	N00024-17-C-6259	EXERCISE, AND FUND OPTIONS FOR NAVY ENGINEERING SERVICES & REQUIRED MATERIALS.
9/27/19	7.7	N00024-16-C-6412	EXERCISE AN OPTION FOR PROVISION ITEM ORDER OF MK48 MOD 7 EQUIPMENT.
9/27/19	150.5	N00019-19-C-1048	AUTONOMIC LOGISTICS INFORMATION SYSTEM HARDWARE & SUPPORT EQUIPMENT IN SUPPORT OF LOWRATE INITIAL PRODUCTION LOT 11 LIGHTNING II AIRCRAFT FOR THE AIR FORCE, NAVY, MARINE CORPS, NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS, AND FMS CUSTOMERS.
9/27/19	9.0	N00019-19-C-1022	SUPPORT OF THE F-35 LIGHTNING II AIRCRAFT.
9/30/19	18.9	SPRHA4-19-C-0021	CIRCUIT CARD ASSEMBLIES.
9/30/19	494.9	N00030-19-C-0100	FOR TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
9/30/19	10.5	FA8525-19-F-0034	PROVIDE SOFTWARE MAINTENANCE UPDATES & ENGINEERING SUPPORT ON THE C-5M GALAXY WEAPONS SYSTEM.
9/30/19	8.0	N00019-19-C-0004	ADDITIONAL CONTRACTOR SUPPORT TO INCREASE THE DEVELOPMENT FLIGHT TEST AIRCRAFT CAPACITY FOR F-35 TEST.
9/30/19	30.5	N00019-19-C-0004	CONTINUE LAB INFRASTRUCTURE ACTIVITIES IN SUPPORT OF F-35 SYSTEM INTEGRATION LABS.
9/30/19	33.6	N63394-16-G-0006	BLANKET ORDER AGREEMENT FOR PROVIDING IN-SERVICE ENGINEERING; DESIGN; INTEGRATION; TEST & EVALUATION; SOFTWARE DEVELOPMENT, LOGISTICS PRODUCT DEVELOPMENT & DISTRIBUTION; CONFIGURATION MANAGEMENT & TRAINING SUPPORT OF THE LITTORAL COMBAT SHIP, FREEDOM VARIANT COMBAT SYSTEM INITIATIVES FOR NAVAL SEA SYSTEMS COMMAND.
9/30/19	44.0	N00024-15-D-5217	CONTRACT FOR 281 TECHNICAL INSERTION SIXTEEN (TI-16) COMMON DISPLAY SYSTEM (CDS) VARIANT A WATER-COOLED & AIR-COOLED PRODUCTION CONSOLES.
10/2/19	163.9	FA8810-13-C-0002	SPACE BASED INFRARED SYSTEM CONTRACTOR LOGISTICS SUPPORT.
10/4/19	75.7	N00024-18-C-2300	EXERCISE OPTIONS FOR THE ACCOMPLISHMENT OF CLASS SERVICES FOR THE LITTORAL COMBAT SHIP (LCS) PROGRAM.
10/16/19	108.3	FA8219-20-C-0001	MK21A REENTRY VEHICLE (RV) PROGRAM.
10/24/19	12.4	FA8553-20-C-0001	LONG TERM SUSTAINMENT (LTS) FOR FRANCE'S C-130-J AIRCRAFT.
10/25/19	148.4	N00019-19-G-0008	CERTIFICATION OF THE F-35B AIRCRAFT VARIANT TO A MINIMUM OF 8,000 FLIGHT HOURS/30 YEAR SERVICE LIFE IN SUPPORT OF THE MARINE CORPS & NON-DEPARTMENT OF DEFENSE PARTICIPANTS.

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Date	Award (USD millions)	Contract #	DESCRIPTION
10/28/19	7,027.6	N00019-17-C-0001	THIS MODIFICATION PROVIDES FOR THE PROCUREMENT OF 114 F-35 AIRCRAFT FOR AIR FORCE, MARINE CORPS & NAVY; NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS, AND FMS CUSTOMERS. SPECIFICALLY THE MODIFICATION PROCURES 48 F-35A AIRCRAFT FOR THE AIR FORCE, 20 F-35B AIRCRAFT FOR THE MARINE CORPS, NINE F-35C AIRCRAFT FOR THE NAVY, 12 F-35A AIRCRAFT FOR THE GOVERNMENT OF NORWAY, 15 F-35A AIRCRAFT FOR THE GOVERNMENT OF AUSTRALIA, AND EIGHT F-35A & TWO F-35B AIRCRAFT FOR THE GOVERNMENT OF ITALY. THE ABOVE U.S. AIRCRAFT QUANTITIES ARE INCLUSIVE OF FISCAL 2019 (LOT 13) PLUS UP AIRCRAFT.
10/28/19	43.4	N00019-18-C-1066	THIS MODIFICATION INCREASES THE SCOPE & CEILING OF THE CONTRACT TO PROVIDE ELECTRONIC WARFARE CAPABILITY DEVELOPMENT & INTEGRATION IN SUPPORT OF THE DESIGN, DEVELOPMENT, AND INTEGRATION OF THE ADVANCED DIGITAL RECEIVER/PROCESSOR UPGRADE TO THE EXISTING E-2D ALZ-217 ELECTRONIC SUPPORT MEASURES RECEIVER / PROCESSOR, ACTIVE FRONT END, AND RECEIVE ANTENNA WEAPONS REPLACEABLE ASSEMBLIES.
10/30/19	7.3	FA8823-17-C-0003	UMQ-13 METEOROLOGICAL DATA STATION MARK IV-B SYSTEM SUSTAINMENT. THE MARK IV-B IS A WEB ENABLED CLIENT-SERVER SYSTEM THAT RECEIVES, PROCESSES, DISSEMINATES & STORES REAL TIME IMAGERY & MISSION SENSOR DATA FROM POLAR ORBITING & GEOSTATIONARY SATELLITES.
10/30/19	10.6	N00019-14-C-0040	DEVELOPMENT & DELIVERY OF AN ENHANCED SIMULATOR DATABASE & PROJECT MANAGEMENT SUPPORT FOR THE F-35 AIRCRAFT IN SUPPORT OF THE GOVERNMENT OF JAPAN.
10/31/19	139.7	HQ0276-10-C-0001	THIS MODIFICATION PROVIDES FOR SCOPE SUPPORTING AEGIS BALLISTIC MISSILE DEFENSE, INCLUDING ADDITIONAL UPGRADES TO BASELINE 5.4, FLIGHT TEST, GROUND TEST, POST-CERTIFICATION ENGINEERING, IN-SERVICE SUPPORT, AND FUTURE STUDIES.
11/1/19	12.0	N00024-11-C-2300	EXERCISE AN OPTION FOR THE ACCOMPLISHMENT OF POST-DELIVERY SUPPORT FOR USS MINNEAPOLIS-SAINT PAUL (LCS 21) OF THE LITTORAL COMBAT SHIP (LCS) PROGRAM.
11/4/19	40.3	N00030-19-C-0100	TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
11/4/19	20.7	N61340-20-C-0003	DESIGN, FABRICATION, PROCUREMENT, DELIVERY, INSTALLATION, INTEGRATION, CONFIGURATION, TECHNICAL DOCUMENTATION, TEST, MODERNIZATION & CONCURRENCY OF THE LITTORAL COMBAT SHIP FREEDOM VARIANT INTEGRATED TACTICAL TRAINER DEVICES.
11/6/19	184.6	N00019-18-C-1048	ESTABLISH ORGANIC DEPOT LEVEL REPAIR CAPABILITIES FOR F-35 SYSTEMS UNDER THE LOW-RATE INITIAL PRODUCTION LOT 11 NON-ANNUALIZED SUSTAINMENT CONTRACT IN SUPPORT OF THE AIR FORCE, MARINE CORPS, NAVY, AND NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.



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Date	Award (USD millions)	Contract #	DESCRIPTION
11/7/19	13.9	N00024-18-C-5300	EXERCISE OPTIONS FOR SLQ-32(V)6 DESIGN AGENT ENGINEERING SERVICES & TRAVEL.
11/8/19	15.7	FA8628-20-C-2266	UNIVERSAL ARMAMENT INTERFACE. THIS CONTRACT PROVIDES FOR SYSTEM ENGINEERING & PROGRAM MANAGEMENT FOR UNIVERSAL ARMAMENT INTERFACE DEVELOPMENT.
11/15/19	3,329.6	FA8823-20-D-0001	COMBINED ORBITAL OPERATIONS, LOGISTICS & RESILIENCY SUPPORT SERVICES.
11/19/19	54.6	N00024-17-C-6259	EXERCISE & FUND OPTIONS FOR NAVY EQUIPMENT, PRODUCTION SUPPORT & REQUIRED LONG LEAD MATERIALS.
11/19/19	92.2	N68335-18-C-0681	PROCURE 34 ELECTRONIC CONSOLIDATED AUTOMATED SUPPORT SYSTEM (ECASS) UNITS TO INCLUDE 32 FOR THE NAVY & TWO FOR THE GOVERNMENT OF KUWAIT.
11/20/19	7.1	W31P4Q-19-C-0088	LOGISTICS SERVICES IN SUPPORT OF THE PRECISION FIRES ROCKET & MISSILE SYSTEM LAUNCHERS.
11/20/19	93.0	W900KK-20-D-0001	CONTRACT FOR A NATIONAL CYBER RANGE THAT PROVIDES THE ABILITY TO CONDUCT REALISTIC CYBERSECURITY TEST & EVALUATION OF MAJOR DEPARTMENT OF DEFENSE ACQUISITION PROGRAMS & THE ABILITY TO CONDUCT REALISTIC TRAINING, CERTIFICATION & MISSION REHEARSAL EVENTS FOR THE DOD CYBER MISSION FORCE.
11/20/19	86.3	N00383-20-D-WB01	REPAIR, UPGRADE OR REPLACEMENT OF THE MK-41 VERTICAL LAUNCH SYSTEM.
11/21/19	87.0	FA3002-20-D-0003	MULTI-COUNTRY C-130J AIRCREW & MAINTENANCE SIMULATOR TRAINING.
11/25/19	9.8	HQ0276-10-C-0001	ENGINEERING & DESIGN SUPPORT SERVICES NECESSARY FOR CONTINUATION OF PLANNING EFFORTS EXECUTED UNDER THE TECHNICAL ASSISTANCE CASE TO SUPPORT THE AEGIS ASHORE JAPAN FMS MAIN CASE.
11/26/19	831.0	N00019-17-C-0001	PRODUCTION & DELIVERY OF 15 LOT 14 F-35A AIRCRAFT & ASSOCIATED RED GEAR IN SUPPORT OF THE GOVERNMENT OF AUSTRALIA.
11/26/19	29.2	N00024-16-C-5103	AEGIS COMBAT SYSTEM ENGINEERING, COMPUTER PROGRAM MAINTENANCE, IN-COUNTRY SUPPORT, STAGING SUPPORT & IMPLEMENTATION STUDIES IN SUPPORT OF CURRENT & FUTURE FMS AEGIS SHIPBUILDING PROGRAMS IN SUPPORT OF THE JAPAN MARITIME SELF DEFENSE FORCE, REPUBLIC OF KOREA NAVY, SPANISH ARMADA, ROYAL AUSTRALIAN NAVY & ROYAL NORWEGIAN NAVY, WITH SCOPE AVAILABLE TO SUPPORT OTHER POTENTIAL FMS CUSTOMERS.
11/26/19	17.6	N00024-14-C-5104	EXERCISE OPTIONS FOR SHIP INTEGRATION & TEST OF THE AEGIS WEAPON SYSTEM (AWS) FOR AWS BASELINES THROUGH ADVANCED CAPABILITY BUILD (ACB) 12.
11/26/19	327.9	N00019-20-C-0009	PROCURE LONG LEAD MATERIAL, PARTS & COMPONENTS IN SUPPORT OF THE LOT 15 PRODUCTION & DELIVERY OF 48 F-35A LIGHTNING II AIRCRAFT FOR THE AIR FORCE.

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Date	Award (USD millions)	Contract #	DESCRIPTION
11/26/19	93.0	H92403-18-D-0002	CONTRACT FOR OPERATIONAL FLIGHT PROGRAM UPGRADES ON SOF C-130 FIXED WING AIRCRAFT ALONG WITH SYSTEMS ENGINEERING & INTEGRATION SUPPORT ACTIVITIES ENCOMPASSING MULTIPLE THIRD PARTY SYSTEMS SOURCES FOR U.S. SPECIAL OPERATIONS COMMAND (USSOCOM).
11/27/19	7.6	W52P1J-19-F-0533	MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT PILOT NIGHT VISION SENSOR SYSTEMS, SUBCOMPONENT PRODUCTION & TECHNICAL SERVICES FOR THE APACHE ATTACK HELICOPTER.
11/27/19	137.7	W31P4Q-15-C-0102	JOINT-AIR-TO-GROUND MISSILES.
12/5/19	988.8	FA8681-18-C-0021	AIR-LAUNCHED RAPID RESPONSE WEAPON CRITICAL DESIGN REVIEW, TEST & PRODUCTION READINESS SUPPORT.
12/6/19	153.4	N00019-19-C-0074	PROCURES SPECIAL TOOLING & SPECIAL TEST EQUIPMENT REQUIRED TO MEET CURRENT & FUTURE F-35 LIGHTNING II LOW-RATE INITIAL PRODUCTION AS WELL AS FULL-RATE PRODUCTION RATES.
12/6/19	21.4	N00024-19-D-6200	PROCUREMENT OF LONG-LEAD-TIME MATERIAL FOR TWO VA BLOCK V HULLS, ONE VA INSTALLATION & CHECKOUT KIT, ONE PRE-PRODUCTION UNIT & ASSOCIATED HARDWARE ASSETS TO SUPPORT ENVIRONMENTAL QUALIFICATION TESTING.
12/9/19	11.5	N00019-18-C-1048	PROVIDE WORK & TRAINING NECESSARY FOR THE AUTONOMIC LOGISTICS INFORMATION SYSTEM 3.5 SOFTWARE ROLLOUT TO THE FLEET UNDER THE LOW RATE INITIAL PRODUCTION LOT XI.
12/11/19	22.4	W912CG-20-C-0005	DESIGN, DEVELOP & VALIDATE SYSTEM PROTOTYPES FOR A COMBINED ARMS SQUAD.
12/12/19	18.1	N00019-16-C-0004	THIS MODIFICATION PROVIDES FOR THE MAINTENANCE & OPERATION OF THE AUSTRALIA, CANADA, UNITED KINGDOM REPROGRAMMING LABORATORY (ACURL). THIS EFFORT INCLUDES SUSTAINMENT SUPPORT FOR ALL ACURL SYSTEMS TO INCLUDE CONSUMABLES FOR THE F-35 AIRCRAFT IN SUPPORT OF THE GOVERNMENTS OF AUSTRALIA, CANADA & THE UNITED KINGDOM.
12/13/19	15.5	W31P4Q-15-C-0102	JOINT AIR-TO-GROUND MISSILE PRODUCTION LINE FOR A RATE RAMP INCREASE OF 50 TO 100 MISSILES PER MONTH.
12/16/19	64.7	W58RGZ-16-C-0008	MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT PILOT NIGHT VISION SENSOR PERFORMANCE BASED LOGISTICS PROGRAM SUSTAINMENT, SUPPORT ELEMENTS, SYSTEM COMPONENTS, TEST EQUIPMENT & THE SUPPLY RETROGRADE INFRASTRUCTURE.
12/16/19	27.7	N00024-19-C-6400	EXERCISE OPTIONS FOR SYSTEMS ENGINEERING & INTEGRATION ON NAVY SUBMARINES.
12/18/19	15.7	N00024-18-C-5218	MODIFICATION TO A PREVIOUSLY AWARDED CONTRACT FOR PROGRAM MANAGEMENT OFFICE & ENGINEERING SERVICES SUPPORTING THE SQQ-89A(V)15 SURFACE SHIP UNDERSEA WARFARE SYSTEMS.
12/18/19	50.2	N00019-18-C-1048	THIS MODIFICATION EXERCISES AN OPTION TO PROCURE UNIQUE F-35 AUTONOMIC LOGISTICS INFORMATION SYSTEM HARDWARE & SUPPORT EQUIPMENT FOR THE MARINE CORPS.

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Date	Award (USD millions)	Contract #	DESCRIPTION
12/18/19	8.9	N00019-14-G-0020	THIS MODIFICATION IS FOR THE PROCUREMENT OF MODIFICATION KITS REQUIRED FOR MODIFICATION & RETROFIT ACTIVITIES IN SUPPORT OF THE F-35 LIGHTNING II JOINT STRIKE AIRCRAFT FOR THE AIR FORCE, MARINE CORPS & NAVY.
12/19/19	18.6	N00024-17-C-6259	TO EXERCISE & FUND OPTIONS FOR THE GOVERNMENT OF CANADA UNDER THE FMS PROGRAM NAVAL PRODUCTION, ENGINEERING SERVICES & REQUIRED MATERIALS.
12/19/19	9.0	N00019-20-C-0026	THIS CONTRACT PROVIDES SUPPORT TO ESTABLISH THE COMMON REPROGRAMMING TOOL DEVELOPMENT NETWORK & SELECTION OF A SERVICE-ORIENTED ARCHITECTURE NEEDED TO COMMENCE DEVELOPMENT OF ENHANCED REPROGRAMMING TOOLS, WHICH IS ESSENTIAL FOR ALL STANDING LABS IN SUPPORT OF THE F-35 AIRCRAFT FOR THE NAVY & THE GOVERNMENT OF AUSTRALIA.
12/20/19	9.5	W52P1J-19-F-0533	PROCURE COMMON SENSOR ELECTRONICS UNIT & ENGINEERING SERVICES.
12/20/19	58.2	N00030-19-C-0100	TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
12/20/19	7,000.0	FA8205-18-D-0001	MODIFICATION TO A PREVIOUSLY AWARDED INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR F-22 AIR VEHICLE SUSTAINMENT. THIS MODIFICATION PROVIDES FOR THE EXERCISE OF AN OPTION FOR ADDITIONAL FIVE YEAR ORDERING PERIOD FOR COMPREHENSIVE F-22 AIR VEHICLE SUSTAINMENT.
12/20/19	23.0	N00024-09-C-6247	EXERCISE OPTIONS FOR FISCAL 2020 ELECTRONIC WARFARE KITS & SPARES.
12/20/19	1,955.8	N00024-18-C-2301	DETAIL DESIGN & CONSTRUCTION OF FOUR MULTI MISSION SURFACE COMBATANT SHIPS (MMSB).
12/20/19	15.2	N00024-15-G-2303	PROVIDE ENGINEERING & MANAGEMENT SERVICES FOR LITTORAL COMBAT SHIP 17 (LCS)-POST SHAKEDOWN AVAILABILITY (PSA).
12/23/19	51.0	W31P4Q-19-C-0076	JAVELIN WEAPON SYSTEM FULL RATE PRODUCTION CONTRACT'S PRIMARY DELIVERABLES, INCLUDING THE COMMAND LAUNCH UNIT REFITS & NON-RECURRING ENGINEERING.
12/23/19	39.6	FA8730-20-C-0008	LONG RANGE RADAR 3. THIS CONTRACT PROVIDES FOR THE NECESSARY EQUIPMENT, TRANSPORTATION, INSTALLATION, TEST, TRAINING, SPARES, ENGINEERING SERVICES, HARDWARE, SOFTWARE, PROGRAM MANAGEMENT & DATA AS DEFINED BY THE SPECIAL OPERATIONS WING TO DELIVER A LONG RANGE RADAR 3 & TECHNICAL REFRESHES TO OTHER INTEGRATED SYSTEMS.
12/27/19	68.0	N00019-16-C-0033	PRODUCT PROCESS VERIFICATION ON F-35 PRODUCTION OPERATION CARDS TO IDENTIFY & CORRECT POTENTIAL PROCESS ISSUES & IMPLEMENT & VALIDATE CORRECTIVE ACTIONS IN SUPPORT OF THE NAVY, MARINE CORPS & AIR FORCE.
12/27/19	172.2	N00019-20-C-0009	PROCURES LONG LEAD MATERIALS, PARTS COMPONENTS & EFFORT FOR THE PRODUCTION OF 28 LOT 15 F-35 AIRCRAFT FOR THE NAVY & MARINE CORPS.

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Date	Award (USD millions)	Contract #	DESCRIPTION
12/30/19	113.9	W31P4Q-19-C-0011	ACCELERATED DELIVERY FOR FMS (UNITED ARAB EMIRATES) OF PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILES WITH ASSOCIATED GROUND SUPPORT EQUIPMENT & INITIAL SPARES.
12/30/19	81.9	N00019-19-C-0010	PROCURES HARDWARE & SOFTWARE DEVELOPMENT OF SELECT BLOCK 4 CAPABILITIES THROUGH DEVELOPMENTAL FLIGHT TEST FOR THE F-35 LIGHTNING II IN SUPPORT OF THE AIR FORCE, NAVY, MARINE CORPS & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
12/30/19	138.5	N00024-13-C-5116	EXERCISE OPTIONS FOR AEGIS COMBAT SYSTEM ENGINEERING AGENT (CSEA) EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF ADVANCED CAPABILITY BUILD (ACB) 20.
12/30/19	1,926.8	N00019-20-C-0006	PROCURES RECURRING LOGISTICS SERVICES FOR DELIVERED F-35 LIGHTNING II JOINT STRIKE FIGHTER AIR SYSTEMS IN SUPPORT OF THE AIR FORCE, MARINE CORPS, NAVY, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
12/30/19	98.9	N00019-19-G-0008	THIS ORDER PROVIDES FOR THE INTEGRATION OF THE NEXT GENERATION ELECTRO-OPTICAL DISTRIBUTED APERTURE SYSTEM INTO ALL VARIANTS OF THE F-35 AIRCRAFT IN SUPPORT OF THE NAVY, MARINE CORPS, AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.

**Lockheed Martin****U.S. Contract Awards**

Below is a listing of major contracts recently awarded to Sikorsky and its subsidiaries from the U.S. government (contracts as of press date). Note that the Description section is excerpted directly from U.S. DoD listings. For full details on individual contracts and their associated modifications, visit <http://www.defense.gov/contracts> and enter the contract number in the "Search Contracts" box.

Date	Award (USD millions)	Contract #	Description
<b>2018</b>			
1/11/18	193.8	W58RGZ-18-C-0017	EIGHT SAUDI ARABIAN NATIONAL GUARD & NINE ROYAL SAUDI LAND FORCES AIRBORNE SPECIAL SECURITY FORCES UH-60M AIRCRAFT.
1/17/18	18.9	N00019-14-G-0019	NON-RECURRING ENGINEERING & PROJECT SUPPORT MANAGEMENT FOR THE PRODUCTION OF THE MH-60R IN SUPPORT OF GOVERNMENT OF SAUDI ARABIA UNDER THE FMS PROGRAM.
2/13/18	126.5	N00019-16-C-0048	LONG-LEAD ITEMS IN SUPPORT OF THE LRIP OF SEVEN LOT III CH-53K AIRCRAFT.
3/30/18	33.0	N00019-14-G-0004	NON-RECURRING ENGINEERING TASKING ASSOCIATED WITH DEVELOPING ENGINEERING CHANGES TO MODIFY & RETROFIT THE VH-92A FORWARD AIRSTAIR DOOR DESIGN & THE 5TH MULTIFUNCTION DISPLAY.
5/7/18	38.4	W911W6-14-D-0002	ENGINEERING, ANALYSIS, TEST & TECHNICAL SERVICES.
6/8/18	14.4	SPRPA1-17-G-C101	DELIVERY ORDER AGAINST AN EXISTING CONTRACT FOR SERVO CYLINDERS.
7/18/18	18.5	SPRRA1-18-D-0160	AIRCRAFT SHAFT EXTENSIONS.
8/16/18	9.7	N00019-14-G-0004	NON-RECURRING ENGINEERING NECESSARY TO CONDUCT COMPREHENSIVE FATIGUE LIFE ANALYSIS TO DEFINE THE EXPECTED SERVICE LIFE OF THE MH-60 SIERRA MULTIMISSIION HELICOPTER IN SUPPORT OF THE NAVY.
9/20/18	58.4	N00019-14-G-0004	PROCUREMENT OF 866 INTERIM SPARE PARTS NECESSARY TO SUPPORT THE REPAIR & MAINTENANCE OF CH-53K LRIP LOT 2 CONFIGURATION AIRCRAFT.
9/25/18	60.9	W58RGZ-18-D-0071	UH-60 BLACK HAWK TRANSMISSION.
9/27/18	28.7	W58RGZ-18-D-0058	FMS (MEXICO, SAUDI ARABIA, SLOVAKIA, SWEDEN, TAIWAN, THAILAND, TUNISIA, AND UNITED ARAB EMIRATES) CONTRACT FOR CONTRACTOR FIELD SERVICE REPRESENTATIVE SUPPORT FOR THE UH-60 BLACK HAWK HELICOPTER.
10/24/18	717.4	N00383-19-D-U001	LOGISTICS & REPAIR SUPPORT FOR 98 COMPONENTS IN SUPPORT OF CH-53 & MH-53 AIRCRAFT WEAPON REPLACEABLE ASSEMBLY COMPONENTS & THEIR RELATED SHOP-REPLACEABLE ASSEMBLY COMPONENTS.
11/28/18	14.9	N00019-16-D-1000	THIS TASK ORDER PROVIDES FOR SECURITY, PROJECT ENGINEERING, SUSTAINMENT ENGINEERING, INTEGRATED LOGISTICS SUPPORT, MATERIAL SUPPORT, PROGRAM SUPPORT & TRAINING FOR THE VH-3D/VH-60N EXECUTIVE HELICOPTER SPECIAL PROGRESSIVE AIRCRAFT REWORK.

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Date	Award (USD millions)	Contract #	Description
12/11/18	38.2	N00019-19-G-0029	DEVELOPMENT & DELIVERY OF A PROVISIONING PARTS DATABASE OF TECHNICAL INFORMATION TO INCLUDE 2D DRAWINGS THAT SUPPORT ALL ORGANIZATIONAL, INTERMEDIATE & DEPOT LEVELS IN SUPPORT OF INITIAL OPERATIONAL CAPABILITY FOR THE CH-53K PROGRAM.
12/20/18	59.0	W58RGZ-19-C-0013	PROCURE, FABRICATE, AND ASSEMBLE UH-60M KITS & FOR THE PROCUREMENT OF ADDITIONAL SPARES & LONG-LEAD PRODUCTION MATERIAL.
12/20/18	1,104.8	H92241-19-D-0003	AN INDEFINITE DELIVERY/INDEFINITE QUANTITY, FFP, COST-REIMBURSABLE CONTRACT WITH A \$1,104,807,664 MAXIMUM FOR LIFE-CYCLE CONTRACTOR SUPPORT FOR THE MH-6, MH-47, AND MH-60 AIRCRAFT. AWARDED TO BOEING SIKORSKY AIRCRAFT SUPPORT.
<b>2019</b>			
1/16/19	7.0	N00019-16-C-0048	AUTOMATED LOGISTICS ENVIRONMENT SOFTWARE MAINTENANCE OPERATING SYSTEMS & OBSOLESCENCE AVOIDANCE IN SUPPORT OF THE LOW RATE INITIAL PRODUCTION CH-53K AIRCRAFT.
4/2/19	7.3	N00019-16-C-0048	PRODUCTION SYSTEMS ENGINEERING & PROGRAM MANAGEMENT SERVICES FOR CALENDAR YEAR 2019 IN SUPPORT OF CH-53K LOW-RATE INITIAL PRODUCTION.
4/11/19	9.5	N00019-14-C-0050	SUPPORT OF THE VH-92A AIRCRAFT.
4/17/19	23.4	W58RGZ-19-F-0381	MAINTENANCE & OVERHAUL OF THE UH-60 BLACKHAWK HELICOPTER.
5/17/19	1,126.2	N00019-16-C-0048	THIS MODIFICATION PROVIDES FOR THE PROCUREMENT OF 12 LOT II & LOT III LOW-RATE INITIAL PRODUCTION CH-53K AIRCRAFT, INCLUDING PROGRAMMATIC SUPPORT, LOGISTICS SUPPORT, AND PECULIAR SUPPORT EQUIPMENT.
6/10/19	542.0	N00019-14-C-0050	SUPPORT OF THE PRESIDENTIAL HELICOPTER REPLACEMENT PROGRAM (VH-92A). THIS MODIFICATION EXERCISES AN OPTION FOR THE PROCUREMENT OF SIX LOW RATE INITIAL PRODUCTION LOT 1 PRESIDENTIAL HELICOPTERS, AS WELL AS INTERIM CONTRACTOR SUPPORT, INITIAL SPARES, SUPPORT EQUIPMENT, AND SYSTEM PARTS REPLENISHMENT.
6/19/19	15.0	W58RGZ-17-C-0009	FMS (SAUDI ARABIA) CONTRACT TO PROCURE THE POST GREEN DD250 AIRCRAFT SUPPORT, STORAGE & MAINTENANCE FOR UH-60M AIRCRAFT FOR THE SAUDI ARABIAN MINISTRY OF THE NATIONAL GUARD.
6/25/19	91.3	W58RGZ-19-D-0079	PROVIDE ENGINEERING & OTHER SUPPORT SERVICES FOR ALL VERSIONS OF THE H-60 BLACKHAWK.
6/27/19	7.8	N00019-14-G-0004	THIS MODIFICATION PROCURES 36 NACELLES PRODUCTION KITS IN SUPPORT OF THE H-53 AIRCRAFT.
7/2/19	7.1	N00019-19-G-0029	THIS ORDER PROCURES NON-RECURRING ENGINEERING, DEVELOPMENT, TOOLING, MANUFACTURING, QUALIFICATION, REPORTING & DELIVERY OF NOSE, MAIN, INTERMEDIATE & TAIL GEARBOX GEARS IN SUPPORT OF THE LOW RATE INITIAL PRODUCTION OF THE 53K AIRCRAFT.

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Date	Award (USD millions)	Contract #	Description
7/2/19	21.7	N00019-19-G-0029	CH-53K DATA TRANSFER UNIT & DEFENSIVE ELECTRONIC COUNTERMEASURE SYSTEM REPLACEMENT PROGRAM AND INCLUDES NECESSARY NON RECURRING ENGINEERING (NRE) TO REPLACE EXISTING SUBSYSTEMS WITHIN THE CH-53K PRODUCTION AIRCRAFT.
7/23/19	9.8	SPRPA1-17-G-C101	H-53 HYDRAULIC FLUID TANKS.
7/26/19	9.4	FA8629-14-C-2403	INITIAL CAPABILITIES UPGRADES. THIS CONTRACT MODIFICATION PROVIDES FOR THE ENGINEERING ANALYSIS & INTEGRATION (OR REMOVAL) OF CAPABILITIES SUCH AS SITUATIONAL AWARENESS DATA LINK, AUTOMATIC DIRECTION FINDER, DISTRIBUTED APERTURE INFRARED COUNTERMEASURES & ELECTRO-OPTICAL / INFRARED WITH PRIMARY FLIGHT REFERENCE SYMBOLOGY.
8/12/19	107.3	N00019-16-C-0048	PROCURES LONG LEAD ITEMS FOR SIX CH-53K LOW-RATE INITIAL PRODUCTION LOT 4 AIRCRAFT.
8/20/19	48.3	N00019-19-G-0029	PROCURE SPARE PARTS TO REPAIR & MAINTAIN CH-53K LOW-RATE INITIAL PRODUCTION LOT THREE CONFIGURATION AIRCRAFT.
10/15/19	7.9	N00019-14-G-0004	DELIVERY ORDER (5306) AGAINST A PREVIOUSLY ISSUED BOA. THIS MODIFICATION PROCURES 36 IMPROVED NACELLES PRODUCTION KITS IN SUPPORT OF THE CH-53E IN-SERVICE AIRCRAFT.
11/4/19	20.3	N00019-06-C-0081	PROVIDE SYSTEM DEMONSTRATION TEST ARTICLE AIRCRAFT (SDTA) TO SUPPORT VARIOUS TEST REQ UNDER THE SYSTEM DEVELOPMENT & DEMONSTRATION (SDD) PROGRAM.
11/20/19	12.1	N00019-16-C-0048	THIS MODIFICATION PROVIDES CH-53K CONFIGURATION CHANGES REQUIRED FOR INITIAL OPERATIONAL TEST & EVALUATION FOR LOT 1 LOW RATE INITIAL PRODUCTION AIRCRAFT.
11/21/19	15.4	N00019-16-D-1000	THIS TASK ORDER PROVIDES FOR SECURITY, PROJECT ENGINEERING, INTEGRATED LOGISTICS SUPPORT, MATERIAL SUPPORT, SUSTAINMENT ENGINEERING, TRAINING & PROGRAM SUPPORT FOR THE VH-3D/VH-60N EXECUTIVE HELICOPTER SPECIAL PROGRESSIVE AIRCRAFT REWORK.
12/18/19	556.2	W58RGZ-17-C-0009	BLACK HAWK PRODUCTION, ASSOCIATED SERVICES FOR PROGRAM SYSTEM MANAGEMENT, ENGINEERING, TECHNICAL DATA & PUBLICATIONS.
12/20/19	26.7	W58RGZ-17-C-0009	FMS (THAILAND) FOR PERSONNEL, MATERIAL, FACILITIES, SERVICES & SUPPORT REQUIRED TO DESIGN, MODIFY, VERIFY, DOCUMENT SYSTEM PERFORMANCE & AIRWORTHINESS SUPPORT.
<b>2020</b>			
1/10/20	7.5	HR0011-20-C-0038	SUPPORT THE OPERATIONAL FIRES INTEGRATED WEAPON SYSTEM PHASE 3 PROGRAM.
1/10/20	31.9	HR0011-20-C-0038	SUPPORT THE OPERATIONAL FIRES INTEGRATED WEAPON SYSTEM PHASE 3 PROGRAM, WHICH WILL ENABLE CAPABILITIES FOR A MOBILE, GROUND-LAUNCHED TACTICAL WEAPON DELIVERY SYSTEM CAPABLE OF CARRYING A VARIETY OF PAYLOADS TO A VARIETY OF RANGES.

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Date	Award (USD millions)	Contract #	Description
1/14/20	32.9	FA8615-12-C-6016	CONTRACTOR LOGISTICS SUPPORT TO THE TAIWAN F-16 PEACE PHOENIX RISING PROGRAM. THIS MODIFICATION PROVIDES FOR CONTRACTOR LOGISTICS SUPPORT, REPAIR & RETURN & DIMINISHING MANUFACTURING SOURCE MANAGEMENT SERVICES FOR TAIWAN F-16S ACTIVE ELECTRONICALLY SCANNED ARRAY RADAR.
1/15/20	19.3	N00024-19-C-6269	EXERCISE OPTIONS FOR THE PROCUREMENT OF EIGHT MULTI-FUNCTION MODULAR MASTS FOR NEW-CONSTRUCTION VA-CLASS SUBMARINE BLOCK V HULLS.
1/16/20	9.8	W31P4Q-19-C-0071	ENGINEERING SERVICES IN SUPPORT OF THE HELLFIRE MISSILE & JOINT AIR-TO-GROUND MISSILE.
1/22/20	7.8	FA8650-16-C-7656	RESEARCH & DEVELOPMENT. THE CONTRACT MODIFICATION IS FOR THE INCORP OF ADDITIONAL WITHIN-SCOPE WORK TO FURTHER THE TECHNOLOGIES ESTABLISHED UNDER CURRENT SYSTEM OF SYSTEMS INTEGRATION TECHNOLOGY & EXPERIMENTATION PROGRAM.
1/24/20	9.8	FA8810-08-C-0002	CROSS DOMAIN SOLUTION (CDS). THE CONTRACT MODIFICATION IS FOR AN UPDATED CDS INTERFACE & ASSOCIATED HARDWARE & SOFTWARE CHANGES, AS WELL AS TEST, INSTALLATION & CHECKOUT OF THE MODIFIED INTERFACE.
1/24/20	16.8	N00024-18-C-5218	PRODUCE TECHNICAL INSERTION-20 SHORE SITE SYSTEMS & PROVIDE INCREMENTAL FUNDING IN SUPPORT OF THE CONTINUED DEVELOPMENT, INTEGRATION & PRODUCTION OF THE NAVY'S SQQ89-A(V)15 SURFACE SHIPS UNDERSEA WARFARE SYSTEM.
1/27/20	13.6	N00024-15-D-5217	98 TECHNICAL INSERTION SIXTEEN (TI-16) COMMON DISPLAY SYSTEM (CDS) VARIANT A AIR-COOLED PRODUCTION CONSOLES.
1/28/20	185.0	N00024-20-C-5503	FULL RATE PRODUCTION OF SURFACE ELECTRONIC WARFARE IMPROVEMENT PROGRAM SLQ-32(V)6, SLQ-32A(V)6 & SLQ-32C(V)6 SYSTEMS. SURFACE ELECTRONIC WARFARE IMPROVEMENT PROGRAM (SEWIP) IS AN EVOLUTIONARY ACQUISITION & INCREMENTAL DEVELOPMENT PROGRAM TO UPGRADE THE EXISTING SLQ-32(V) ELECTRONIC WARFARE SYSTEM. S
1/30/20	77.1	W31P4Q-19-F-0003	FMS (BAHRAIN, REPUBLIC OF KOREA, GERMANY, JAPAN, KUWAIT, NETHERLANDS, POLAND, QATAR, ROMANIA, SAUDI ARABIA, SWEDEN, UNITED ARAB EMIRATES) CONTRACT FOR PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET, ADVANCED CAPABILITY-3.
1/30/20	81.6	N00024-17-C-6259	EXERCISE & FUND OPTIONS FOR NAVAL PRODUCTION, ENGINEERING SERVICES & REQUIRED MATERIALS FOR THE GOVERNMENT OF CANADA UNDER THE FMS PROGRAM.
1/31/20	473.8	N00030-20-C-0101	TRIDENT II (D5) LIFE EXTENSION 2 STRATEGIC SYSTEMS PROGRAMS ALTERATION ADVANCED DEVELOPMENT PROGRAM EFFORTS.



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Date	Award (USD millions)	Contract #	Description
1/31/20	23.5	FA8615-12-C-6016	F-16 RETROFIT. THIS MODIFICATION PROVIDES FOR THE UNCLASSIFIED PURCHASE OF AN ADDITIONAL QUANTITY OF TEN ACTIVE ELECTRONICALLY SCANNED ARRAY RADAR SPARES UNITS BEING ACQUIRED UNDER THE BASIC CONTRACT.
1/31/20	51.7	N00024-14-C-5114	PRODUCTION & DELIVERY OF FOUR SPY-1 LOW NOISE AMPLIFIER (LNA) RADAR ARRAYS. THE CONTRACT PROVIDES UPGRADED SPY-1 LNA PHASED ARRAYS THAT WILL ENHANCE IN SERVICE BALLISTIC MISSILE DEFENSE-CAPABLE DESTROYERS.
1/31/20	185.9	N00019-20-D-0001	PROGRAM MANAGEMENT, VARIOUS LEVELS OF MAINTENANCE, TRAINING & LOGISTICS SUPPORT TO SUSTAIN THE OPERATIONAL CAPABILITY OF 24 ROYAL AUSTRALIAN NAVY MH-60 ROMEO AIRCRAFT.
1/31/20	2338.0	N00383-20-D-W001	CONTRACT FOR THE REPAIR, UPGRADE OR REPLACEMENT, REQUIRED AVAILABILITY, CONFIGURATION MANAGEMENT & INVENTORY MANAGEMENT FOR APPROXIMATELY 1,049 WEAPON REPLACEABLE ASSEMBLIES & SHOP REPLACEABLE ASSEMBLIES ASSOCIATED WITH BOTH THE MH-60R & MH-60S HELICOPTERS.
2/5/20	?	N00024-20-D-6338	A FFP, FPIF-TARGET, CPIF, CPFF & COST ONLY INDEFINITE-DELIVERY/INDEFINITE-QUANTITY, MULTIPLE AWARD CONTRACT (IDIQ-MAC) TO SUPPORT THE UNMANNED SURFACE VEHICLE FAMILY OF SYSTEMS. THE IDIQ-MACS HAVE A FIVE-YEAR BASE PERIOD & ONE FIVE-YEAR ORDERING PERIOD OPTION, WHICH, IF EXERCISED, WOULD BRING THE CUMULATIVE VALUE OF THIS CONTRACT TO \$982,100,000. THESE BUSINESSES WILL HAVE THE OPPORTUNITY TO COMPETE IN THE AWARDED FUNCTIONAL AREA FOR INDIVIDUAL DELIVERY ORDERS.
2/7/20	347.7	N00019-20-C-0009	ADVANCE ACQUISITION CONTRACT. THIS MODIFICATION PROCURES LONG LEAD MATERIALS, PARTS, COMPONENTS & SUPPORT NECESSARY TO MAINTAIN ON-TIME PRODUCTION & DELIVERY OF 43 LOT 15 F-35 AIRCRAFT FOR NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
2/11/20	67.6	FA8615-16-C-6048	UPGRADING F-16S FOR THE GOVERNMENT OF SINGAPORE.
2/12/20	40.0	N00024-19-D-6200	THE DESIGN, PROTOTYPING & QUALIFICATION TESTING FOR ELECTRONIC WARFARE SYSTEMS EQUIPMENT.
2/13/20	32.2	W31P4Q-20-C-0017	PROVIDE FIELD-LEVEL HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)/MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) LAUNCHER MAINTENANCE SUPPORT TO THE ARMY, MARINE CORPS & NAVY.
2/13/20	15.3	N00019-19-G-0029	FOUR RETROFIT ADVANCED RADAR PROCESSOR SYSTEMS TO INCLUDE REQUIRED NON-RECURRING ENGINEERING & 16 HIGH-DENSITY SERVERS FOR THE E-2D ADVANCED HAWKEYE AIRCRAFT.
2/14/20	13.9	N00030-19-C-0100	TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
2/14/20	233.0	N00024-20-C-5310	MK 41 VERTICAL LAUNCHING SYSTEM VERTICAL LAUNCHER MODULE ASSEMBLIES, MODERNIZATION KITS & SPARE COMPONENTS.

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Date	Award (USD millions)	Contract #	Description
2/19/20	470.8	N00019-14-C-0050	THIS MODIFICATION EXERCISES OPTIONS TO PROCURE SIX LOW RATE INITIAL PRODUCTION LOT II VH-92A AIRCRAFT, INTERIM CONTRACTOR SUPPORT & SIX CABIN INTERIOR RECONFIGURATION KITS IN SUPPORT OF THE PRESIDENTIAL HELICOPTER REPLACEMENT PROGRAM.
2/19/20	40.0	N00019-16-C-0048	THIS MODIFICATION PROCURES ORGANIC CAPABILITY PILOT REPAIR MATERIAL, TECHNICAL PUBLICATIONS, PECULIAR SUPPORT EQUIPMENT RE-DESIGN & ACQUISITION & LOGISTICAL SUPPORT IN SUPPORT OF LOT 2 CH-53K AIRCRAFT.
2/20/20	11.9	N00019-19-G-0029	NON-RECURRING ENGINEERING TO REPLACE EXISTING SUBSYSTEMS, SUCH AS THE DATA TRANSFER UNIT, DEFENSE ELECTRONIC COUNTERMEASURE SYSTEM & ARC-210 RADIO, WITH THE CH-53K PRODUCTION AIRCRAFT.
2/21/20	12.3	HR0011-20-C-0050	MANTA RAY PROGRAM, PHASE 1. THIS CONTRACT PROVIDES FOR THE RESEARCH, DEVELOPMENT & DEMONSTRATION OF THE MANTA RAY EXTRA-LARGE UNMANNED UNDERWATER VEHICLE.
2/21/20	7.7	FA8750-20-C-0507	CERTIFICATION FROM GENERATION OF AUTOMATED TEST EVIDENCE (CERTGATE) SOFTWARE & HARDWARE. THIS CONTRACT PROVIDES FOR THE RESEARCH, DEVELOPMENT, TEST & DEMONSTRATION OF CERTGATE SOFTWARE & HARDWARE, THE EXTENSIBLE EVIDENCE GENERATION WORKBENCH.
2/27/20	1,142.8	W31P4Q-18-C-0049	MODIFICATION TO CONTRACT FOR GUIDED MULTIPLE LAUNCH ROCKET SYSTEMS.
2/28/20	18.4	W31P4Q-19-C-0059	FISCAL 2020 OPERATIONS & MAINTENANCE, ARMY, AND FMS (AUSTRALIA, CZECH REPUBLIC, ESTONIA, FRANCE, GA, INDONESIA, IRELAND, JORDAN, LITHUANIA, NEW ZEALAND, NORWAY, OMAN, QATAR, TURKEY, UKRAINE & UNITED ARAB EMIRATES)
2/28/30	16.4	N00039-20-C-0003	PROCUREMENT OF TOWED ARRAYS & PROVISIONED ITEM ORDERS TO SUPPORT AN INDEFINITE QUANTITY OF SPARES; CPFF FOR ENGINEERING SERVICES FOR POST-DELIVERY SUPPORT, INCLUDING REPAIRS & ENGINEERING UPGRADES, THE ARRAY REFURBISHMENT PROGRAM, COST-ONLY FOR TRAVEL & MATERIAL IN SUPPORT OF ENGINEERING SERVICES & REFURBISHMENTS.
2/28/20	141.7	N00019-18-C-1048	THIS MODIFICATION PROVIDES FOR THE STAND-UP OF ORGANIC LEVEL REPAIR CAPABILITIES FOR THE COMBAT AIRCRAFT F-35 COMMUNICATIONS, NAVIGATION & INFORMATION SYSTEM.
3/2/20	9.6	N00019-19-G-0008	THIS ORDER PROCURES PROGRAM MANAGEMENT SUPPORT TO EXECUTE THE PLANNING, PROCUREMENT & DELIVERY OF INITIAL AIRCRAFT SPARES IN SUPPORT OF THE F-35 AIR FORCE, MARINE CORPS & NAVY, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS OPERATIONAL AIRCRAFT.

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Date	Award (USD millions)	Contract #	Description
3/5/20	25.9	HQ0276-10-C-0001	THIS MODIFICATION INCREASES THE TOTAL CUMULATIVE CONTRACT VALUE BY \$25,900,000 FROM \$3,184,013,135 TO \$3,209,913,135. UNDER THIS MODIFICATION, THE CONTRACTOR WILL PERFORM ENGINEERING, DESIGN SUPPORT SERVICES NECESSARY FOR CONTINUATION OF PLANNING EFFORTS & RISK REDUCTION EFFORTS REQUIRED TO MAINTAIN THE INITIAL OPERATIONAL CAPABILITY SCHEDULE TO SUPPORT THE AEGIS ASHORE JAPAN FMS MAIN CASE.
3/5/20	16.2	FA8504-20-C-0002	C-130J CENTER WING BOX REPLACEMENT PROGRAM.
3/6/20	154.9	W52P1J-20-F-0225	MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT/PILOT NIGHT VISION SENSOR SYSTEM (M-TADS/PNVS) SYSTEMS FOR THE APACHE ATTACK HELICOPTER IN SUPPORT OF THE MOROCCAN GOVERNMENT.
3/9/20	22.4	N00014-20-C-1003	INTEGRATION, DEMONSTRATION, TESTING & OPERATION OF THE LAYERED LASER DEFENSE (LLD) WEAPON SYSTEM PROTOTYPE ONBOARD A NAVY LITTORAL COMBAT SHIP WHILE THAT VESSEL IS UNDERWAY.
3/9/20	25.4	N63394-20-C-0004	LAUNCH SEQUENCER (LSEQ) MARK (MK) 5 MOD PRODUCTION IN SUPPORT OF THE VERTICAL LAUNCH SYSTEM (VLS).
3/9/20	173.2	N00019-20-C-0009	THIS MODIFICATION PROCURES LONG LEAD MATERIALS, PARTS, COMPONENTS & SUPPORT NECESSARY TO MAINTAIN ON-TIME PRODUCTION & DELIVERY OF LOT 15 F-35 AIRCRAFT FOR THE NAVY, MARINE CORPS & GOVERNMENT OF ITALY.
3/10/20	525.4	W58RGZ-17-C-0009	EXERCISE AN OPTION FOR THE ARMY MY IX PROGRAM YEAR 4, LOT 44, REQUIREMENT OF 38 UH-60M ARMY AIRCRAFT, AND TO EXERCISE AN OPTION FOR TWO UH-60M FMS GREEN AIRCRAFT.
3/12/20	65.0	N00024-19-C-5603	MODIFICATION TO PREVIOUSLY-AWARDED CONTRACT FOR SHIP SELF-DEFENSE SYSTEM COMBAT SYSTEM ENGINEERING SUPPORT.
3/12/20	8.8	N00024-09-C-6247	EXERCISE OPTIONS FOR INTEGRATED SUBMARINE IMAGING SYSTEM (FOR SUBMARINE ELECTRONIC WARFARE MODELS BLQ-10 & TI-18) KITS & SPARES.
3/16/20	98.7	N00024-20-C-5601	CONTRACT FOR SUSTAINMENT OF THE LITTORAL COMBAT SHIP COMPONENT BASED TOTAL SHIP SYSTEM - 21ST CENTURY - (LCS COMBATSS-21); & ASSOCIATED COMBAT SYSTEM ELEMENTS.
3/16/20	14.7	N00019-17-C-0022	PROCUREMENT OF 4,001 LASER GUIDED TRAINING ROUNDS BDU-59B/B.
3/17/20	65.8	N00024-13-C-5225	PRODUCTION & ENGINEERING SERVICES OF THE NAVY'S UNDERSEA WARFARE SYSTEMS (MODEL SQQ-89A(V)15) FOR SURFACE SHIPS.
3/18/20	19.4	N00024-13-C-6292	EXERCISE & FUND OPTIONS FOR THE PRODUCTION OF NAVY EQUIPMENT.
3/18/20	73.7	N66604-20-D-E006	PROCUREMENT OF MATERIALS & SERVICES TO DESIGN, DEVELOP, FABRICATE, TEST, INSTALL, DOCUMENT & DELIVER RAPID PROTOTYPE SOLUTIONS IN SUPPORT OF THE UNDERSEA WARFARE/UNDERSEA DEFENSIVE FAMILY OF SYSTEMS.

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Date	Award (USD millions)	Contract #	Description
3/19/20	601.3	N00030-19-C-0100	EXERCISE OPTIONS UNDER A PREVIOUSLY AWARDED & ANNOUNCED CONTRACT FOR THE SUBMARINE-LAUNCHED BALLISTIC MISSILE (MODEL) TRIDENT II D5 PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
3/20/20	8.8	N00024-20-C-5503	INCREASE QUANTITIES FOR THE FULL-RATE PRODUCTION OF THE SURFACE ELECTRONIC WARFARE IMPROVEMENT PROGRAM & THE SLQ-32(V)6, A COMBAT SYSTEM THAT PROVIDES A FULL RANGE OF UNDERSEA WARFARE FUNCTIONS.
3/23/20	29.6	N00024-18-C-5218	ENGINEERING SERVICES IN SUPPORT OF THE SURFACE SHIP UNDERSEA WARFARE SYSTEM MODEL SQQ-89(V).
3/24/20	932.8	HQ0147-17-C-0032	EXERCISE AN OPTION FOR THE PRODUCTION OF TERMINAL HIGH ALTITUDE AREA DEFENSE (THAAD) INTERCEPTORS & ASSOCIATED ONE-SHOT DEVICES TO SUPPORT THE U.S. GOVERNMENT (USG) & THE KINGDOM OF SAUDI ARABIA (KSA) FMS.
3/25/20	112.7	N00039-20-D-0022	MOBILE USER OBJECTIVE SYSTEM (MUOS) SPACE SEGMENT SUSTAINMENT.
3/26/20	125.4	N00019-20-C-0047	LONG LEAD ITEMS FOR LOW-RATE INITIAL PRODUCTION OF THE SEVEN LOT 5 CH-53K HEAVY-LIFT AIRCRAFT.
3/27/20	136.9	?	CONTRACT AWARD FOR THE U.S. & UNITED KINGDOM & PROVIDES STRATEGIC WEAPON SYSTEM TRIDENT FLEET SUPPORT, TRIDENT II STRATEGIC SYSTEMS PROGRAMS, SHIPBOARD INTEGRATION (SSI) INCREMENT 8, SSI INCREMENT 16, COLUMBIA CLASS & U.K. DREADNOUGHT NAVIGATION SUBSYSTEM DEVELOPMENT EFFORTS.
3/27/20	19.2	N00019-14-C-0050	THIS MODIFICATION EXERCISES INITIAL SPARES & SYSTEM PARTS REPLENISHMENT OPTIONS FOR THE PRESIDENTIAL HELICOPTER REPLACEMENT PROGRAM (VH-92A) UNDER LOW RATE INITIAL PRODUCTION LOT II.
3/30/20	7.6	W58RGZ-20-F-0318	POST-PRODUCTION SERVICES TARGETING & NIGHT VISION SYSTEMS.
3/30/20	12.7	N00024-17-G-5100	DELIVERY OF INSTALLATION & CHECKOUT, CONSOLIDATED SHIPBOARD ALLOWANCE LIST, COORDINATED SHORE BASED MATERIAL & MAINTENANCE ALLOWANCE LIST & SPARE PARTS KITS.
3/31/20	426.3	W31P4Q-19-C-0092	BUILDING MISSILES & LAUNCH ASSEMBLIES.
3/31/20	183.7	W31P4Q-19-C-0011	CONTRACT FOR ALL INCIDENTAL MAINTENANCE, FACILITIES SUPPORT & TECHNICAL SERVICES FOR PLANNING, MANAGEMENT & PRODUCTION OF MISSILES.
3/31/20	8.5	FA8553-20-C-0001	C-130J SUPPORT. THIS CONTRACT IS IN SUPPORT OF LONG TERM SUSTAINMENT FOR FRANCE'S C-130J AIRCRAFT.
3/31/20	22.9	N00019-20-C-0048	CONTRACT THAT INTEGRATES THE GOVERNMENT OF BELGIUM INTO THE F-35 LIGHTNING II COMBAT AIRCRAFT ENTERPRISE.

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Date	Award (USD millions)	Contract #	Description
3/31/20	202.8	N00019-20-C-0037	ENGINEERING, MAINTENANCE, LOGISTICS MANPOWER & MATERIAL SUPPORT TO CONTINUE TO DEVELOP, SUSTAIN & PRODUCE SOFTWARE BUILDS AS WELL AS CARRYOUT DEVELOPMENTAL FLIGHT TESTS IN SUPPORT OF THE JOINT STRIKE FIGHTER AIRCRAFT.
3/31/20	90.0	N00019-20-D-0016	THIS CONTRACT PROVIDES REQ DEVELOPMENT, TECHNICAL ANALYSIS, ENGINEERING & INTEGRATION SUPPORT FOR THE H-60 AIRCRAFT.
3/31/20	4,708.9	N00019-17-C-0001	THIS MODIFICATION IS FOR THE PROCUREMENT OF 78 F-35 COMBAT AIRCRAFT (48F-35A COMBAT AIRCRAFT FOR THE AIR FORCE, 14 F-35B COMBAT AIRCRAFT FOR THE MARINE CORPS, 16 F-35C FIGHTER AIRCRAFT FOR THE NAVY) & ASSOCIATED AIRCRAFT RED GEAR.
3/31/20	14.9	N00019-16-C-004	PRODUCTION SYSTEMS ENGINEERING & PROGRAM MANAGEMENT IN SUPPORT OF CH-53K LOW RATE INITIAL PRODUCTION.
4/1/20	818.2	FA8682-20-C-0001	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM) LOT 17 & 18 PRODUCTION.
4/1/20	17.6	N00030-20-C-0023	THE WORK WILL PROVIDE THE UNITED KINGDOM (U.K.) WITH ENGINEERING, TECHNICAL SUPPORT SERVICES & DELIVERABLE MATERIALS FOR THE U.K. FLEET BALLISTIC MISSILE PROGRAM.
4/2/20	512.0	FA8615-20-C-6051	F-16 BLOCK 70 PRODUCTION FOR THE REPUBLIC OF BULGARIA.
4/2/20	13.6	N00019-20-G-0029	NON-RECURRING ENGINEERING EFFORTS TO INCLUDE INVESTIGATIONS, SYSTEMS ENGINEERING SUPPORT, RISK ANALYSIS, INTEGRATION DEVELOPMENT, WEIGHT IMPACT, PUBLICATION UPDATES, MAINTENANCE, TRAINING, TOOLING UPDATES & QUALIFICATION TESTING IN SUPPORT OF THE MH-60R AIRCRAFT FOR THE GOVERNMENTS OF AUSTRALIA & DENMARK.
4/6/20	29.5	N66001-20-C-0082	PROVIDE SYSTEMS ENGINEERING, SOFTWARE DESIGN/DEVELOPMENT, INTEGRATION, TESTING, INSTALLATION, TRAINING, MANAGEMENT SUPPORT & SYSTEM DOCUMENTATION FOR CONTINUED MODERNIZATION OF THE OFFICE OF NAVAL INTELLIGENCE MEASUREMENT & SIGNATURE INTELLIGENCE ENTERPRISE FOR GLOBAL ACOUSTIC INTELLIGENCE SYSTEM.
4/7/20	7.0	W31P4Q-19-C-0071	SUPPORT THE HELLFIRE MISSILE & JOINT AIR-TO-GROUND MISSILE PROGRAMS.
4/7/20	167.5	FA8682-20-C-0003	CONTRACT FOR 48 LONG RANGE ANTI-SHIP MISSILES & TOOLING & TEST EQUIPMENT.
4/9/20	10.6	N00024-13-C-5116	EXERCISE AN OPTION FOR THE AEGIS COMBAT SYSTEM ENGINEERING AGENT (CSEA) EFFORTS.
4/10/20	14.9	N00019-18-C-1048	PROCURE DEPOT COMPONENT REPAIR CAPABILITY FOR THE F-35 HYDRAULIC POWER GENERATION SYSTEM & LAND GEAR UNDER LOW RATE INITIAL PRODUCTION LOT 11 FOR THE NAVY, AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
4/13/20	8.9	N00019-14-G-0020	THIS MODIFICATION EXERCISES AN OPTION TO PROCURE THE TOOLING NEEDED TO MEET BOTH PRODUCTION & RETROFIT DEMANDS OF THE TECHNICAL REFRESH 3 (TR3) AVIONICS SYSTEM.

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Date	Award (USD millions)	Contract #	Description
4/17/20	147.6	N00024-20-C-5310	PROCUREMENT OF MK 41 VERTICAL LAUNCHING SYSTEM (VLS) VERTICAL LAUNCHER MODULE ELECTRONIC COMPONENTS.
4/17/20	519.1	N00024-20-C-5105	PROCUREMENT OF INT'L AEGIS FIRE CONTROL LOOP DEVELOPMENT, SOLID STATE S-BAND RADAR PROCESSING GROUP, TOOLS & TEST EQUIPMENT & SPARES FOR FIVE NEW MULTI-MISSION FRIGATES SUPPORTING THE AEGIS COMBAT SYSTEM (BASELINE 9C.2).
4/22/20	33.8	N00024-17-C-6259	EXERCISE & FUND OPTIONS FOR NAVY EQUIPMENT, PRODUCTION SUPPORT, ENGINEERING SERVICES & REQUIRED MATERIALS.
4/22/20	41.9	N00024-13-C-5225	EXERCISE OPTIONS FOR ENGINEERING SERVICES IN SUPPORT OF THE NAVY'S SQQ-89A(V)15 SURFACE SHIP UNDERSEA WARFARE SYSTEMS.
4/22/20	88.9	N00019-20-D-0017	THIS CONTRACT PROVIDES MANAGEMENT & MAINTENANCE OF THE TACTICAL TOMAHAWK WEAPONS CONTROL SYSTEM SOFTWARE PRODUCT BASELINE, REQUIRED SYSTEM & SOFTWARE DOCUMENTATION FOR THE NAVY & THE GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN & NORTHERN IRELAND.
4/24/20	67.6	W52P1J-20-F-0225	FMS (INDIA, TAIWAN) CONTRACT FOR MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT/PILOT NIGHT VISION SENSORS & ITS SUBCOMPONENTS ON THE APACHE 64D/E HELICOPTER.
4/28/20	7.7	N00024-17-C-6259	EXERCISE & FUND OPTIONS FOR NAVY EQUIPMENT, LONG-LEAD MATERIAL & SPARES.
4/28/20	13.0	N00024-19-G-2313	PROVIDE ENGINEERING & MANAGEMENT SERVICES FOR LITTORAL COMBAT SHIP (LCS)-19 POST SHAKEDOWN AVAILABILITY (PSA).
4/28/20	13.2	N00024-19-D-6200	MODIFICATION TO PREVIOUSLY AWARDED DELIVERY ORDER UNDER INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR THE DESIGN, PROTOTYPING & QUALIFICATION TESTING FOR THE TI-20 BLQ-10.
4/29/20	19.5	?	UNDEFINITIZED CONTRACT MODIFICATION (N00024-20-C-5105) FOR THE PROCUREMENT OF THE KOREAN GUN COMPUTING SYSTEM DEVELOPMENT, SOFTWARE, AND HARDWARE & SUBASSEMBLIES FOR INSTALLATION. THIS MODIFICATION WILL FINALIZE THE KOREAN GUN COMPUTING SYSTEM INTERFACE DESIGN SPECIFICATIONS FOR THE INTEGRATION WITH THE AEGIS COMBAT SYSTEM.
4/30/20	6,068.3	W31P4Q-20-C-0023	CONTRACT FOR INCIDENTAL SERVICES, HARDWARE, FACILITIES, EQUIPMENT & ALL TECHNICAL, PLANNING, MANAGEMENT, MANUFACTURING & TESTING EFFORTS TO PRODUCE PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILES, MISSILE SEGMENT ENHANCEMENT CONFIGURATION & ASSOCIATED GROUND SUPPORT EQUIPMENT & SPARES.

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Date	Award (USD millions)	Contract #	Description
4/30/20	618.0	HQ0853-20-D-0001	UNDER THIS FOLLOW-ON CONTRACT, THE CONTRACTOR WILL PROVIDE TERMINAL HIGH ALTITUDE AREA DEFENSE PRODUCT SUPPORT, WHICH INCLUDES: LOGISTICS PERFORMANCE REQ; MAINTENANCE; SUPPLY; TRAINING & TRAINING SUPPORT; PACKAGING, HANDLING, STORAGE & TRANSPORTATION; FORWARD STATIONING FOR THEATER SUPPORT; LOGISTICS INFORMATION CAPABILITIES; PRODUCT ASSURANCE; SAFETY; MISSILE SUPPORT; SECURITY; & ENGINEERING SERVICES.
4/30/20	89.5	N00019-19-G-0008	PROVIDES PROGRAM MANAGEMENT, NONRECURRING ENGINEERING, RECURRING ENGINEERING, SITE SUPPORT & TOUCH LABOR IN SUPPORT OF MODIFICATION & RETROFIT ACTIVITIES FOR DELIVERED F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT AIR SYSTEMS FOR THE FOR THE AIR FORCE, MARINE CORPS, NAVY, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
4/30/20	129.2	N00019-14-G-0020	THIS MODIFICATION PROCURES THE KITS REQUIRED FOR MODIFICATION & RETROFIT ACTIVITIES OF DELIVERED AIR FORCE & GOVERNMENT OF NORWAY F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT.
5/7/20	7.3	N00024-19-G-2319	PROVIDE ADVANCE PLANNING, ACCOMPLISHMENT & EMERGENT AVAILABILITIES FOR LCS-19 POST SHAKEDOWN AVAILABILITY.
5/7/20	49.9	FA8682-19-C-0008	PROCURE ADDITIONAL EQUIPMENT & TOOLING NEEDED TO INCREASE JOINT AIR-TO-SURFACE STANDOFF MISSILE PRODUCTION.
5/8/20	47.7	N00024-19-D-6200	PROCUREMENT OF SUBMARINE MODERNIZATION KITS, EQUIPMENT & INSTALLATION.
5/12/20	121.8	W31P4Q-19-C-0076	MODIFICATION TO CONTRACT FOR THE JAVELIN WEAPON SYSTEM.
5/12/20	29.9	N00019-16-C-0048	THIS MODIFICATION PROVIDES FOR RATE TOOLING, PHYSICAL CONFIGURATION AUDITS, ASSOCIATED SYSTEMS ENGINEERING & PROGRAM MANAGEMENT IN SUPPORT OF CH-53K AIRCRAFT PRODUCTION.
5/13/20	8.9	N00019-14-C-0050	SUPPORT FOR THE INTEGRATION & TRANSITION OF WINDOWS 10 & SERVER 16 INTO VARIOUS VH-92A TRAINING DEVICES.
5/14/20	904.8	N00019-19-C-0013	THIS MODIFICATION PROVIDES FOR THE PRODUCTION & DELIVERY OF THREE MH-60R SEAHAWK MARITIME AIRCRAFT FOR THE NAVY & 21 MH-60RS FOR THE GOVERNMENT OF INDIA.
5/15/20	7.9	N00024-14-C-6227	EXERCISE AN OPTION FOR THE PROCUREMENT OF NAVY EQUIPMENT.
5/18/20	497.3	W31P4Q-17-D-0026	PHASED ARRAY TRACKING ON RADAR TO INTERCEPT ADVANCED CAPABILITY-3 MISSILE SUPPORT CENTER POST-PRODUCTION SUPPORT.
5/18/20	22.3	HQ0276-10-C-0001	MODIFICATION UNDER AEGIS COMBAT WEAPON SYSTEM DEVELOPMENT CONTRACT, WHICH COVERS MULTIPLE AEGIS WEAPON SYSTEM BASELINES & PLATFORMS.

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Date	Award (USD millions)	Contract #	Description
5/18/20	485.0	?	INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR DEPARTMENT OF DEFENSE & FMS SNIPER, INFRARED SEARCH & TRACK (IRST); & LOW ALTITUDE NAVIGATION & TARGETING INFRARED FOR NIGHT (LANTIRN) NAVIGATION POD (FIXED WING) HARDWARE PRODUCTION.
5/21/20	48.9	N63394-20-C-0004	EXERCISE OPTIONS FOR LAUNCH SEQUENCER MK 5 MOD 2 PRODUCTION UNITS IN SUPPORT OF THE VERTICAL LAUNCH SYSTEM.
5/26/20	15.9	N00019-19-G-0008	THIS ORDER PROCURES SUPPORT TO MANAGE DIMINISHING MANUFACTURING SOURCES IN SUPPORT OF THE F-35 PROGRAM FOR THE AIR FORCE, NAVY & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
5/26/20	7.9	SPRPA1-17-G-C101	H-53 HYDRAULIC FLUID TANKS.
5/27/20	106.3	W31P4Q-20-C-0032	INDUSTRIAL ENGINEERING SERVICES FOR PROGRAMS SUPPORTING INT'L CONTRACTOR LOGISTICS SERVICES RELATED TO THE MULTIPLE LAUNCH ROCKET SYSTEM.
5/27/20	13.2	W58RGZ-20-F-0413	MODERNIZED TARGET ACQUISITION SIGHT/PILOT NIGHT VISION SENSOR REFURBISHMENT.
5/27/20	393.8	N00019-19-D-0015	THIS MODIFICATION INCREASES THE CEILING TO PRODUCE & DELIVER ANCILLARY MISSION EQUIPMENT (AME)/PILOT FLIGHT EQUIPMENT (PFE) & ASSOCIATED AME/PFE INITIAL SPARES IN SUPPORT OF F-35 LOT 14 AIRCRAFT DELIVERIES FOR THE NAVY, AIR FORCE, MARINE CORPS, NON-DEPARTMENT OF DEFENSE PARTICIPANTS & FMS CUSTOMER'S OPERATIONAL AIRCRAFT.
5/28/20	17.9	N00019-06-C-0081	THIS MODIFICATION PROVIDES LOGISTICS, PROGRAM MANAGEMENT, TRAINING, CONFIGURATION MANAGEMENT & SUSTAINING ENGINEERING SUPPORT FOR THE H-53K SYSTEM DEMONSTRATION & TEST ARTICLE AIRCRAFT.
5/29/20	?	FA8612-20-D-0017	\$950,000,000 CEILING, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS FOR THE MATURATION, DEMONSTRATION & PROLIFERATION OF CAPABILITY ACROSS PLATFORMS & DOMAINS, LEVERAGING OPEN SYSTEMS DESIGN, MODERN SOFTWARE & ALGORITHM DEVELOPMENT IN ORDER TO ENABLE JOINT ALL DOMAIN COMMAND & CONTROL (JADC2).
5/29/20	13.8	W31P4Q-19-C-0038	ENGINEERING SERVICES FOR SPIRAL 3 SYSTEM QUALIFICATION OF THE JAVELIN MISSILE.
5/29/20	15.4	N00024-18-C-6258	EXERCISE OPTIONS FOR PRODUCTION & COMPONENT WORK.



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Date	Award (USD millions)	Contract #	Description
5/29/20	3161.9	W31P4Q-20-C-0023	THE CONTRACT AWARD ANNOUNCED ON APRIL 30, 2020, FOR INCIDENTAL SERVICES, HARDWARE, FACILITIES, EQUIPMENT & ALL TECHNICAL, PLANNING, MANAGEMENT, MANUFACTURING & TESTING EFFORTS TO PRODUCE PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILES, MISSILE SEGMENT ENHANCEMENT CONFIGURATION & ASSOCIATED GROUND SUPPORT EQUIPMENT & SPARES, INCLUDED THE INCORRECT FUNDING SOURCE & AMOUNT OF OBLIGATED FUNDS. THE ANNOUNCEMENT SHOULD HAVE SAID FMS FUNDS IN THE AMOUNT OF \$3,161,854,602 WERE OBLIGATED AT THE TIME OF THE AWARD.
6/1/20	37.8	N00019-19-G-0029	RETROFITS FROM THE GENERATION III, V & VI MISSION COMPUTER (MC) CONFIGURATION TO THE GENERATION 3I & 5I MC CONFIGURATION ON THE MH-60R/S SEAHAWK HELICOPTER
6/1/20	26.8	N00019-19-C-0010	THIS MODIFICATION SUPPORTS NON-RECURRING ENGINEERING EFFORTS TO DEVELOP & CERTIFY A RETROFIT SOLUTION TO SUPPORT THE STRUCTURAL REQ FOR FULL-UP DESTRUCTION & SUPPRESSION OF ENEMY AIR DEFENSES CAPABILITIES FOR LOT 14 & LOT 15 F-35A LIGHTNING II COMBAT AIRCRAFT FOR THE AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
6/3/20	7.1	W31P4Q-19-C-0038	ENGINEERING SERVICES FOR LIGHTWEIGHT COMMAND LAUNCH UNIT SYSTEM QUALIFICATION BUILD INITIATION.
6/3/20	18.7	N00019-20-C-0052	PROCUREMENT OF MAINTENANCE & SUSTAINMENT OPERATIONS SUPPORT FOR THE NORWAY ITALY REPROGRAMMING LABORATORY SYSTEMS & CONSUMABLES IN SUPPORT OF THE JOINT STRIKE FIGHTER AIRCRAFT FOR THE GOVERNMENTS OF NORWAY & ITALY.
6/3/20	7.7	N00019-19-G-0029	THIS ORDER PROCURES SUPPORT TO UPDATE EXISTING CH-53K SYSTEM/SUBSYSTEM SPECIFICATIONS PRODUCED BY THE ORIGINAL EQUIPMENT MANUFACTURER.
6/4/20	75.4	W31P4Q-19-C-0076	JAVELIN WEAPON SYSTEM FULL RATE PRODUCTION PRIMARY DELIVERABLES.
6/8/20	37.5	N00024-16-C-5103	ADDITIONAL AEGIS COMBAT SYSTEM ENGINEERING, COMPUTER PROGRAM MAINTENANCE, IN-COUNTRY SUPPORT, STAGING SUPPORT & IMPLEMENTATION STUDIES IN SUPPORT OF CURRENT & FUTURE FMS AEGIS SHIPBUILDING PROGRAMS IN SUPPORT OF THE JAPAN MARITIME SELF-DEFENSE FORCE, REPUBLIC OF KOREA NAVY, SPANISH ARMADA, ROYAL AUSTRALIAN NAVY & ROYAL NORWEGIAN NAVY, WITH SCOPE AVAILABLE TO SUPPORT OTHER POTENTIAL FMS CUSTOMERS.
6/9/20	70.2	N00024-18-C-5103	EXERCISE OPTION YEAR TWO IN SUPPORT OF AEGIS DEVELOPMENT & TEST SITES OPERATIONS & MAINTENANCE.

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Date	Award (USD millions)	Contract #	Description
6/10/20	1042.3	W31P4Q-20-C-0023	INCIDENTAL SERVICES, HARDWARE, FACILITIES, EQUIPMENT, AND ALL TECHNICAL, PLANNING, MANAGEMENT, MANUFACTURING, AND TESTING EFFORTS TO PRODUCE PHASED ARRAY TRACKING RADAR TO INTERCEPT ON TARGET ADVANCED CAPABILITY-3 MISSILES.
6/11/20	?	HQ0727-16-D-0001	A MAXIMUM \$10,271,000,000 MODIFICATION ON EXISTING INDEFINITE-DELIVERY/INDEFINITE-QUANTITY, ADVANCED TECHNOLOGY SUPPORT PROGRAM IV (ATSP4) CONTRACTS. THE MODIFICATION RAISES THE CEILING ON THE CURRENT ATSP4 CONTRACTS FROM \$7,200,000,000 TO \$17,471,000,000. ATSP4 ARE MULTIPLE-AWARD, INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACTS FOR ENGINEERING SERVICES DESIGNED TO RESOLVE PROBLEMS WITH OBSOLETE, UNRELIABLE, UNMAINTAINABLE, UNDERPERFORMING, OR INCAPABLE ELECTRONICS HARDWARE & SOFTWARE THROUGH DEVELOPMENT OF ADVANCED TECHNOLOGY INSERTIONS & APPLICATIONS TO MEET THE REQ OF THE DEPARTMENT OF DEFENSE FOR A QUICK REACTION CAPABILITY.
6/11/20	368.2	N00019-17-C-0001	MODIFICATION TO PREVIOUSLY AWARDED FPIF-TARGET, FFP, CPFF CONTRACT. THIS MODIFICATION PROVIDES FOR THE PROCUREMENT OF FIVE F-35A LIGHTNING II LOT 14 AIRCRAFT, ONE F-35B LOT 14 COMBAT AIRCRAFTS & ASSOCIATED RED GEAR FOR THE GOVERNMENT OF ITALY.
6/11/20	31.1	N00019-14-G-0020	THIS MODIFICATION PROVIDES SUPPLIER NON-RECURRING ENGINEERING, DEVELOPMENT OF DESIGN DOCUMENTATION & THE CREATION OF MODIFICATION INSTRUCTIONS FOR THE DEVELOPMENTAL TEST FLEET IN SUPPORT OF THE JOINT STRIKE FIGHTER AIRCRAFT FOR THE NAVY, AIR FORCE, MARINE CORPS & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
6/12/20	375.5	N00019-19-C-0013	THIS MODIFICATION PROVIDES NON-RECURRING EFFORTS TO DESIGN & DEVELOP UNIQUE HARDWARE & SOFTWARE FOR THE MULTI-ROLE HELICOPTER MH-60R DEVELOPMENT PROGRAM FOR THE GOVERNMENT OF INDIA.
6/12/20	183.8	N00019-15-C-0003	THIS MODIFICATION INCORPORATES ADDITIONAL OPERATION, SECURITY & TECHNICAL SERVICES IN SUPPORT OF THE F-35 LIGHTNING II PROGRAM FOR THE REPUBLIC OF KOREA.
6/15/20	7.3	FA8682-20-C-0007	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM) OPERATIONAL REALTIME COMBAT ANALYSIS (ORCA) INCREMENT TWO.
6/17/20	16.0	N00019-19-G-0008	THIS ORDER PROCURES SUPPORT TO MANAGE DIMINISHING MANUFACTURING SOURCES IN SUPPORT OF THE F-35 PROGRAM FOR THE AIR FORCE, NAVY & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
6/19/20	25.1	N00024-13-C-5116	EXERCISE AN OPTION FOR AEGIS COMBAT SYSTEM ENGINEERING AGENT (CSEA) EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF ADVANCED CAPABILITY BUILD 20.

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Date	Award (USD millions)	Contract #	Description
6/19/20	44.0	FA8604-20-D-8002	CONTRACTOR ENGINEERING & TECHNICAL SERVICES ENGINE SUPPORT FOR AIR NATIONAL GUARD & FMS PARTNERS.
6/19/20	7.7	N00019-19-G-0029	THIS DELIVERY ORDER PROCURES LABOR & HARDWARE TO DESIGN, DEVELOP & TEST UPGRADES TO CURRENTLY FIELDIED OPERATION TEST PROGRAM SETS REQUIRED FOR INTERMEDIATE LEVEL SUPPORT, TO INCLUDE THE AUDIO MANAGEMENT COMPUTER-LITE, SMART MULTI-FUNCTION DISPLAY, COMMON AVIONICS MULTI-FUNCTION DISPLAY & THE CONTROL DISPLAY UNIT IN SUPPORT OF THE H-60 MULTI-MISSION HELICOPTER.
6/23/20	22.4	N00019-19-G-0029	THIS ORDER EXERCISES OPTIONS TO PROCURE 12 RETROFIT ADVANCED RADAR PROCESSOR SYSTEMS FOR THE E-2D ADVANCED HAWKEYE AIRCRAFT.
6/29/20	7.0	FA8620-C3-0-99	FOLLOW-ON SUPPORT SUSTAINMENT OF THE REPUBLIC OF KOREA PEACE KRYPTON PROGRAM.
6/29/20	25.4	W31P4Q-04-C-0046	SUPPORT SERVICES FOR THE JAVELIN WEAPON SYSTEM.
6/29/20	11.6	N00019-19-G-0008	THIS ORDER PROCURES INTEL DIMINISHING MANUFACTURING SOURCES PARTS THAT HAVE REACHED END OF LIFE IN SUPPORT OF THE F-35 LIGHTNING II PROGRAM FUTURE AIRCRAFT DELIVERIES FOR THE AIR FORCE, NAVY, FMS CUSTOMERS & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
6/29/20	360.8	N00019-17-C-0001	THIS MODIFICATION PROVIDES FOR THE PROCUREMENT OF FOUR F-35C CARRIER VARIANT LOT 14 AIRCRAFT FOR THE NAVY.
6/29/20	67.7	N00019-20-C-0009	THIS MODIFICATION IS FOR THE PROCUREMENT OF LONG LEAD MATERIALS, PARTS, COMPONENTS & SUPPORT NECESSARY TO MAINTAIN ON-TIME PRODUCTION & DELIVERY OF NINE LOT 16 F-35A LIGHTNING II AIRCRAFT FOR THE GOVERNMENT OF THE NETHERLANDS, AS WELL AS SEVEN F-35A LIGHTNING II & TWO F-35B LIGHTNING II AIRCRAFT FOR THE GOVERNMENT OF ITALY.
6/30/20	226.2	W31P4Q-19-C-0077	CONTRACT FOR A 44 M270A2 MULTIPLE LAUNCH ROCKET SYSTEMS.
6/30/20	12.9	N00019-19-G-0029	THIS ORDER PROVIDES FOR THE PRODUCTION & DELIVERY OF 62 AUDIO MANAGEMENT COMPUTER-LITE COMPUTERS TO BE USED AS SPARES IN THE MH-60R SEAHAWK HELICOPTER IN SUPPORT OF THE NAVAL SUPPLY SYSTEMS COMMAND, THE GOVERNMENT AUSTRALIA & SAUDI ARABIA & TO SUPPORT THE DEVELOPMENT OF THE OPERATION TEST PROGRAM SET FOR THE NAVY.
6/30/20	9.8	N00019-17-C-0001	THIS MODIFICATION EXERCISES AN OPTION TO PERFORM CHASE AIRCRAFT MAINTENANCE FOR LOT 12 F-35 LIGHTING II AIRCRAFT FOR THE NAVY, MARINE CORPS, AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.

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Date	Award (USD millions)	Contract #	Description
6/30/20	106.9	N00019-16-C-0048	THIS MODIFICATION IS FOR THE LOW RATE INITIAL PRODUCTION OF ORGANIC CAPABILITY PILOT REPAIR MATERIAL, TECHNICAL PUBLICATIONS, PECULIAR SUPPORT EQUIPMENT & LOGISTICS SUPPORT FOR THE CH-53K KING STALLION AIRCRAFT.
7/6/20	12.8	N64498-20-D-0009	CONTRACT FOR MATERIALS & ENGINEERING SERVICES REQUIRED TO DEVELOP & INTEGRATE TECHNOLOGICAL IMPROVEMENTS FOR THE DDG-51 HULL; MECHANICAL & ELECTRICAL MACHINERY CONTROL SYSTEMS (MCS); LITTORAL COMBAT SHIP (LCS) FREEDOM CLASS MCS; & LANDING HELICOPTER DOCK/A (LHD/A) MCS INSTALLED ONBOARD CURRENT NAVY SHIPS.
7/9/20	16.3	N00104-20-C-K045	REFURBISHMENT OF ROCKET MOTORS & THRUST VECTOR CONTROL USED ON VERTICAL LAUNCH ASSEMBLIES FOR ANTI-SUBMARINE ROCKET ASSISTED TORPEDOES.
7/9/20	56.1	N00019-19-C-0010	THIS MODIFICATION PROVIDES SYSTEMS INTEGRATION ENGINEERING SUPPORT & PROCURES LONG LEAD MATERIAL TO ENSURE THE ASQ-239 ELECTRONIC WARFARE/COUNTERMEASURES PRODUCTION CAPABILITY REMAINS ON TRACK TO MEET LOT 17 DELIVERIES.
7/10/20	7.3	N00024-16-C-5102	EXERCISE AN OPTION FOR AEGIS PLATFORM SYSTEMS ENGINEERING AGENT EFFORTS FOR THE INTEGRATION & DELIVERY OF AEGIS BASELINE 9 CAPABILITIES.
7/10/20	87.5	N00019-20-D-0007	NON-RECURRING ENGINEERING FOR THE DEVELOPMENT & MATURATION OF THE AUTONOMIC LOGISTICS INFORMATION SYSTEM (ALIS) IN SUPPORT OF DATA MIGRATION & TRANSITION TO THE NEWLY DEVELOPED F-35 OPERATIONAL INTEGRATED DATA NETWORK (ODIN).
7/17/20	11.2	HR0011-20-C-0139	SUPPORT A DEFENSE ADVANCED RESEARCH PROJECTS AGENCY PROGRAM.
7/17/20	935.5	N00019-20-C-0032	PROCURE SUPPORT EQUIPMENT, AUTONOMIC LOGISTICS INFORMATION SYSTEM HARDWARE, TRAINING SYSTEMS, SITE ACTIVATIONS & INTEGRATED CONTRACTOR SUPPORT FOR THE F-35 LIGHTNING II.
7/17/20	15,000.0	FA8625-20-D-3000	A \$15,000,000,000 INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR C-130J DEVELOPMENT, INTEGRATION, RETROFIT & PRODUCTION ACTIVITIES FOR ALL C-130J VARIANTS. THIS CONTRACT PROVIDES FLEXIBILITY TO ACCOMMODATE THE BROAD ENTERPRISE OF ACTIVITIES ASSOCIATED WITH THE C-130J PROGRAM. THIS CONTRACT INVOLVES FMS.
7/20/20	861.7	N00019-17-C-0001	HIS MODIFICATION EXERCISES OPTIONS TO PROCURE EIGHT LOT 14 F-35ALIGHTNING II REPOSITIONED AIRCRAFT AS A RESULT OF THE REPUBLIC OF TURKEY'S REMOVAL FROM THE F-35 PROGRAM, AND SIX LOT 14 F-35A AIRCRAFT FOR THE AIR FORCE.
7/22/20	702.9	W31P4Q-18-C-0130	PROCUREMENT OF HELLFIRE MISSILES.

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Date	Award (USD millions)	Contract #	Description
7/22/20	7.6	N00024-14-C-5106	PRODUCTION & DELIVERY OF AEGIS WEAPON SYSTEM MK 6 MOD 1 SPARES FOR NEW CONSTRUCTION & AEGIS MODERNIZATION GUIDED MISSILE DESTROYERS.
7/23/20	19.5	W58RGZ-20-F-0473	OVERHAUL & REPAIR OF THE TAIL ROTOR BLADE WITH PITCH HORN REPLACEMENT FOR UH60 BLACKHAWK AIRCRAFT.
7/28/20	18.1	N00019-19-C-0013	NON-RECURRING EFFORTS & MODIFIES THREE LOT 14 MH-60R HELICOPTERS TO THE INITIAL INDIA CONFIGURATION IN SUPPORT OF THE MH-60R MODIFICATION PROGRAM FOR THE GOVERNMENT OF INDIA.
7/29/20	47.2	W31P4Q-19-C-0076	FULL RATE PRODUCTION OF THE JAVELIN WEAPON SYSTEM.
7/30/20	8.1	FA8808-12-C-0010	DELIVERY OF TWO ADVANCED EXTREMELY HIGH FREQUENCY (AEHF) SPACE VEHICLES. THE CONTRACT MODIFICATION IS TO MODIFY THE ON-ORBIT TEST PROCESS OF SPACE VEHICLE 6 UNDER THE BASIC CONTRACT.
7/31/20	34.2	FA8615-17-C-6045	SERVICE LIFE EXTENSION PROGRAM FOR THE REPUBLIC OF KOREA'S F-16 AIRCRAFT.
7/31/20	65.3	?	FISCAL 2020 AEGIS MODERNIZATION, NEW CONSTRUCTION OF GUIDED MISSILE DESTROYERS & FMS PRODUCTION REQ. THIS CONTRACT COMBINES PURCHASES FOR THE NAVY (96.9%); THE KINGDOM OF SPAIN (2.3%); & THE GOVERNMENT OF JAPAN (0.8%), UNDER THE FMS PROGRAM.
8/4/20	9.9	W31P4Q-17-C-017	FIELD SUPPORT TECHNICIANS.
8/4/20	181.7	N00019-19-C-0013	PRODUCTION, DELIVERY & INTEGRATION OF 24 AIRBORNE LOW FREQUENCY SONARS (ALFS) FOR THE GOVERNMENT OF INDIA; EIGHT ALFS FOR THE NAVY & SEVEN ALFS FOR THE GOVERNMENT OF DENMARK, INTO MH-60R SEAHAWK AIRCRAFT.
8/6/20	20.6	N00019-20-F-0078	THIS ORDER PROCURES VARIOUS MATERIALS REQUIRED FOR THE 30P05 CAPABILITY UPGRADE TO ALL FIELDIED PILOT & MAINTENANCE TRAINING SYSTEMS IN SUPPORT OF THE F-35 PROGRAM FOR THE NAVY, MARINES, AIR FORCE, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
8/7/20	77.4	N00019-17-C-0001	THIS MODIFICATION PROVIDES FOR THE DEVELOPMENT & INSTALLATION OF FLIGHT TEST INSTRUMENTATION ON ONE F-35B LOT 14 AIRCRAFT & ONE F-35C LOT 14 AIRCRAFT FOR GOVERNMENT TESTING IN SUPPORT OF THE F-35 PROGRAM.
8/11/20	25.1	N00019-19-G-0029	THIS ORDER PROVIDES NON-RECURRING ENGINEERING FOR THE DEVELOPMENT OF LOGISTICS SUPPORT PRODUCTS FOR THE MAINTENANCE TASK ANALYSIS PHASE II, A PROVISIONING DATABASE OF TECHNICAL INFORMATION TO INCLUDE 2D DRAWINGS THAT SUPPORTS ALL OPERATIONAL, INTERMEDIATE, AND DEPOT LEVEL MAINTENANCE FOR THE CH-53K HELICOPTER.

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Date	Award (USD millions)	Contract #	Description
8/12/20	14.8	FA8750-20-C-1540	RESEARCH & DEVELOPMENT OF A PROTOTYPE SEMANTIC FORENSIC SYSTEM THAT AUTOMATICALLY DETECTS, ATTRIBUTES & CHARACTERIZES FALSIFIED, MULTI-MODAL MEDIA ASSETS TO DEFEND AGAINST LARGE-SCALE, AUTOMATED DISINFORMATION ATTACKS & SUPPORTS A VARIETY OF POTENTIAL TRANSITION PARTNERS.
8/14/20	?	FA8615-20-D-6052	A \$62,000,000,000 TEN-YEAR, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY (IDIQ), FPI CONTRACT FOR NEW PRODUCTION OF F-16 FOREIGN MILITARY SALE (FMS) AIRCRAFT. THE TOTAL VALUE FOR THE INITIAL DELIVERY ORDER IS \$4,941,105,246 & WILL BE AWARDED ON THE SAME DATE. THE INITIAL DELIVERY ORDER IS FOR 90 AIRCRAFT, INCLUDING BOTH THE PRE-PRICED RECURRING CORE CONFIGURATION COSTS AT \$2,862,797,674 & THE ECP/UNDEFINITIZED CONTRACT ACTION FOR THE NON-RECURRING COSTS NOT-TO-EXCEED \$2,078,307,572 OBLIGATED AT APPROXIMATELY \$1,018,370,710.
8/21/20	18.8	HQ0276-10-C-0001	AEGIS COMBAT WEAPON SYSTEM DEVELOPMENT CONTRACT.
8/21/20	7.9	N00019-19-G-0008	THIS ORDER IS TO CONSOLIDATE LOTS 12-14 KNOWN ISSUES, FUNDING & REQ ON A SINGLE CONTRACT VEHICLE TO ENSURE THE MOST FISCALLY RESPONSIBLE BUSINESS DEALS FOR CUSTOMERS. THIS SUPPORTS CONCURRENCY RELATED MODIFICATION & RETROFIT ACTIVITIES FOR DELIVERED AIR SYSTEMS FOR THE F-35 LIGHTNING II JOINT STRIKE FIGHTER AIRCRAFT FOR NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
8/24/20	13.5	W911W6-20-D-0005	A \$13,500,000 ORDER-DEPENDENT CONTRACT FOR TECHNOLOGIES TO BE DEVELOPED & DEMONSTRATED IN THE FUTURE ATTACK RECONNAISSANCE AIRCRAFT TECHNOLOGY RISK MITIGATION & MATURATION EFFORT.
8/25/20	191.7	N00024-20-C-6117	PROCUREMENT OF ENGINEERING DESIGN DEVELOPMENT SERVICES & ASSOCIATED MATERIAL t& TRAVEL, SUPPORTING THE FLEET OF NAVY SUBMARINES & FMS REQ.
8/26/20	7.5	N00019-20-F-0022	THIS ORDER EXERCISES OPTIONS TO PROCURE INTEL DIMINISHING MANUFACTURING SOURCES PARTS THAT HAVE REACHED END OF LIFE IN SUPPORT OF THE F-35 PROGRAM FUTURE AIRCRAFT PRODUCTION & DELIVERIES FOR THE AIR FORCE & NAVY.
8/27/20	35.3	N00001-19-G-0029	THIS ORDER PROCURES LABOR & HARDWARE FOR THE DEVELOPMENT OF PRELIMINARY SOFTWARE FOR PHASE 2 NETWORK ENABLED WEAPONS (NEW) CAPABILITIES.
8/28/20	911.8	HQ0147-12-D-0001	TERMINAL HIGH ALTITUDE AREA DEFENSE ELEMENT DEVELOPMENT & SUPPORT SERVICES. THIS MODIFICATION BRINGS THE TOTAL MAXIMUM CEILING VALUE OF THIS CONTRACT FROM \$2,335,000,000 TO \$3,246,765,000.

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Date	Award (USD millions)	Contract #	Description
8/31/20	187.5	HQ0850-20-C-0009	SPACE DEVELOPMENT AGENCY TRANSPORT LAYER TRANCHE 0.
8/31/20	183.2	W31P4Q-9C-0-101	M142 HIGH MOBILITY ARTILLERY ROCKET SYSTEM LAUNCHERS.
9/1/20	7.3	W52P1J-20-F-0225	APACHE MODERNIZED DAY SENSOR ASSEMBLY KITS.
9/1/20	8.2	HQ0276-10-C-0001	CONTRACT MODIFICATION UNDER PREVIOUSLY AWARDED AEGIS COMBAT WEAPON SYSTEM DEVELOPMENT CONTRACT.
9/3/20	51.9	N00024-15-C-5151	EXERCISE OPTIONS FOR SHIP INTEGRATION & TEST OF THE AEGIS WEAPON SYSTEM (AWS) FOR AWS BASELINES THROUGH ADVANCED CAPABILITY BUILD (ACB) 16.
9/4/20	?	N00024-20-C-6320	CONTRACT FOR STUDIES OF A LARGE UNMANNED SURFACE VESSEL WITH A COMBINED VALUE ACROSS ALL AWARDS OF \$41,985,112. EACH CONTRACT INCLUDES AN OPTION FOR ENGINEERING SUPPORT, THAT IF EXERCISED, WOULD BRING THE CUMULATIVE VALUE FOR ALL AWARDS TO \$59,476,146. THE CONTRACT AWARDED TO HUNTINGTON INGALLS INC IS \$7,000,000; THE CONTRACT AWARDED TO LOCKHEED MARTIN CORP. IS \$6,999,978; THE CONTRACT AWARDED TO BOLLINGER SHIPYARDS LOCKPORT LLC, IS \$6,996,832; THE CONTRACT AWARDED TO MARINETTE MARINE CORP. IS \$6,999,783; THE CONTRACT AWARDED TO GIBBS & COX INC IS \$6,989,499; & THE CONTRACT AWARDED TO AUSTAL USA LLC IS \$6,999,020.
9/4/20	23.1	W31P4Q-19-C-0101	PURCHASE OF PRODUCTION PARTS FOR THE PRODUCTION OF M142 HIGH MOBILITY ARTILLERY ROCKET SYSTEM LAUNCHERS.
9/4/20	12.5	N64267-18-C-0132	EXERCISE OPTIONS FOR AEGIS DESIGN AGENT FIELD ENGINEERING SERVICES. THE SERVICES INCLUDE TEST & EVALUATION, ENGINEERING CHANGE DEVELOPMENT, ORDNANCE & SHIP ALTERATIONS, MODERNIZATION ENGINEERING, LOGISTICS & TECHNICAL SUPPORT, ORDNANCE ALTERATIONS KIT DEVELOPMENT, INTEGRATION & TEST SUPPORT, SPY-1 SERIES RADAR ANTENNA REFURBISHMENT & COAST GUARD DEEP-WATER PROGRAM DESIGN AGENT FIELD ENGINEERING SUPPORT.
9/9/20	22.3	W31P4Q-19-C-0071	ENGINEERING SERVICES IN SUPPORT OF THE HELLFIRE & JOINT-AIR-TO-GROUND MISSILES.
9/9/20	126.9	N00024-17-C-6259	CONTRACT MODIFICATION TO PREVIOUSLY AWARDED CONTRACT TO EXERCISE & FUND OPTIONS FOR NAVY ENGINEERING SERVICES, MATERIALS & SPARES.
9/11/20	18.9	W58RGZ-20-F-0414	MODERNIZED-RADAR FREQUENCY INTERFEROMETER.
9/11/20	28.5	N00001-19-G-0029	THIS ORDER PROVIDES NON-RECURRING & RECURRING ENGINEERING SUPPORT ASSOCIATED WITH SOFTWARE & HARDWARE DEVELOPMENT FOR PHASE I INTEGRATION OF THE DIGITAL MAGNETIC ANOMALY DETECTION SENSOR INTO THE MH-60R AIRCRAFT.

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Date	Award (USD millions)	Contract #	Description
9/11/20	9.0	N00019-19-G-0008	THIS MODIFICATION PROVIDES LABOR, ENGINEERING CHANGE ORDER PLANNING, INSTALLATION & SITE SUPPORT ACTIVITIES TO OPERATE THE CAMERI REGIONAL MODIFICATION, REPAIR, OVERHAUL & UPGRADE FACILITY FOR F-35 AIRCRAFT FOR THE GOVERNMENT OF ITALY.
9/14/20	10.9	FA8810-13-C-0002	MODIFICATION TO CONTRACT FOR SPACE BASED INFRARED SYSTEM CONTRACTOR LOGISTICS SUPPORT FOR STUDIES & MODIFICATION PROJECTS.
9/14/20	7.2	N00024-18-C-6258	MODIFICATION TO PREVIOUSLY AWARDED CONTRACT TO EXERCISE OPTIONS FOR ENGINEERING SERVICES & OTHER DIRECT COSTS IN SUPPORT OF THE INTEGRATED SUBMARINE IMAGING SYSTEM.
9/14/20	10.6	N68335-17-C-0253	PROVIDE RETROFIT KITS FOR THE PRODUCTION & DELIVERY OF 137 LOW RATE INITIAL PRODUCTION ELECTRONIC CONSOLIDATED AUTOMATED SUPPORT SYSTEMS (ECASS) TO THE UPGRADED FULL RATE PRODUCTION ECASS STATION BASELINE; 137 J18/J19 GENERAL PURPOSE INTERFACE UPGRADE KITS; & SIX FIRE WIRE/FIBER CHANNEL ANCILLARY KITS.
9/14/20	20.5	N00019-16-C-000	ADDITIONAL LABOR IN SUPPORT OF DEPOT MAINTENANCE ACTIVITIES ASSOCIATED WITH THE COMPLETION OF THE GOVERNMENT OF AUSTRALIA'S FIRST JOINT STRIKE FIGHTER AIRCRAFT INDUCTION.
9/15/20	54.5	N00019-19-G-0029	THIS ORDER PROCURES 3,754 INTERIM SPARE PARTS & PROVIDES SUPPORT FOR THE REPAIR & MAINTENANCE OF THE CH-53K LOW RATE INITIAL PRODUCTION AIRCRAFT CONFIGURATION.
9/16/20	21.4	N68335-20-D-0935	THIS CONTRACT PROCURES THE ELECTRO-OPTICS FOURTH GENERATION (EO4) CONSOLE & REPLACES THE LEGACY ELECTRO-OPTICS THIRD GENERATION CONSOLE CONFIGURATION TO MITIGATE OBSOLESCENCE, DECREASED AVAILABILITY & RISING SUSTAINMENT COSTS.
9/17/20	70.8	N00019-19-C-0010	THIS MODIFICATION PROVIDES REQ DECOMPOSITION THROUGH SYSTEM FUNCTIONAL REVIEW FOR THE F-35 SUPER MULTI-FUNCTION AIRCRAFT DATA LINK BAND 5 RECEIVER WARNING CAPABILITY IN SUPPORT OF THE NAVY, AIR FORCE, MARINE CORPS, AND NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
9/18/20	20.0	N00019-19-G-0029	PROCUREMENT OF FIVE INFRARED RECEIVERS & FOUR CONTROL PROCESSORS IN SUPPORT OF THE F/A-18 INFRARED SEARCH & TRACK SYSTEM.
9/21/20	12.8	N00019-19-D-0014	THIS MODIFICATION EXERCISES OPTIONS TO PROCURE CONSUMABLE PARTS & MATERIAL IN SUPPORT OF THE C/KC-130J AIRCRAFT FOR THE MARINE CORPS, MARINE CORPS RESERVES, COAST GUARD & THE GOVERNMENT OF KUWAIT.
9/22/20	85.3	FA8810-13-C-0002	CONTINUE SPACE BASED INFRARED SYSTEM CONTRACTOR LOGISTICS SUPPORT.



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Date	Award (USD millions)	Contract #	Description
9/23/20	52.8	N00019-14-C-0050	THIS MODIFICATION PROCURES SUPPORT EQUIPMENT & ADDITIONAL SPARES IN SUPPORT OF VH-92A AIRCRAFT LOT II LOW RATE INITIAL PRODUCTION.
9/23/20	15.2	SPRHA2-20-C-0005	CONTRACT FOR THE VOICE CONTROL PANEL MATRIX ON THE MINUTEMAN III WEAPON SYSTEM.
9/23/20	72.1	N00024-16-C-6412	EXERCISE OPTIONS FOR THE PRODUCTION OF MK 48 MOD 7 HEAVYWEIGHT GUIDANCE & CONTROL SECTIONS, UPGRADE COMMON BROADBAND ADVANCED SONAR SYSTEM KITS & TORPEDO EQUIPMENT & SUPPORT.
9/23/20	8.9	N00024-20-C-5503	EXERCISE OPTIONS FOR INCREASED LOW RATE INITIAL PRODUCTION QUANTITIES OF SURFACE ELECTRONIC WARFARE IMPROVEMENT PROGRAM SLQ-32C(V)6.
9/24/20	245.4	N00019-20-C-0037	THIS MODIFICATION EXTENDS SERVICES & ADDS HOURS IN SUPPORT OF ENGINEERING, MAINTENANCE, LOGISTICS MANPOWER & MATERIAL SUPPORT TO CONTINUE TO DEVELOP, SUSTAIN & PRODUCE SOFTWARE BUILDS AS WELL AS CARRYOUT DEVELOPMENTAL FLIGHT TESTS FOR THE JOINT STRIKE FIGHTER AIRCRAFT IN SUPPORT OF THE NAVY, MARINE CORPS, AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS
9/25/20	26.1	N00178-16-D-3001	SHIP SELF-DEFENSE SYSTEM DESIGN & PRODUCTION.
9/25/20	9.4	N63394-20-F-0019	ENGINEERING SERVICES & SUPPLIES IN SUPPORT OF THE MK92 FIRE CONTROL SYSTEM.
9/25/20	16.5	N00019-9G-0-029	THIS ORDER PROVIDES RECURRING & NON-RECURRING ENGINEERING SUPPORT ASSOCIATED WITH THE INCORP OF 39 DEPLOYABLE CONFIGURATION CHANGES THAT ALIGN LOT ONE CONFIGURATION AIRCRAFT, VIA RETROFIT, WITH LOT TWO & LOT THREE LOW RATE INITIAL PRODUCTION AIRCRAFT, IN SUPPORT OF THE CH-53K PROGRAM.
9/25/20	63.9	N00019-19-G-0008	THIS ORDER PROVIDES FOR THE L12 DIMINISHING MANUFACTURING SOURCES REDESIGN EFFORT IN SUPPORT OF THE F-35 AIRCRAFT FOR AIR FORCE, NAVY & NON-DEPARTMENT OF DEFENSE (DOD) CUSTOMERS. SPECIFICALLY, THIS ORDER PROVIDES NON-RECURRING ENGINEERING IN SUPPORT OF REDESIGNED END PRODUCTS FOR THE TACTICAL NAVIGATION SYSTEM INERTIAL ELECTRONICS UNIT/INERTIAL MEASUREMENTS UNIT, ELECTRONIC WARFARE/COUNTER MEASURES APERTURE ELECTRONICS MODULE (EW/CM AEM), AIRCRAFT EXTERIOR LIGHTING, EW/CM ELECTRONIC WARFARE CONTROLLERS & EW/CM COUNTER MEASURE CONTROLLER
9/28/20	25.0	FA8217-20-D-0006	CONTRACT FOR THE ATMOSPHERIC EARLY WARNING SYSTEM FPS-117 RADAR PROGRAM.
9/28/20	11.5	N00164-20-G-JQ96	JOB ORDER UNDER BOA N00164-20-G-JQ96 FOR THE PERFORMANCE OF NON-RECURRING ENGINEERING FOR CONTRACTOR SUSTAINMENT SERVICES FOR THE TARGET SIGHT SYSTEM.

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Date	Award (USD millions)	Contract #	Description
9/28/20	19.3	N00164-20-G-JQ96	JOB ORDER UNDER BOA N00164-20-G-JQ96 FOR THE PERFORMANCE OF NON-RECURRING ENGINEERING FOR BLOCK UPGRADE PHASE 2-4 TECHNOLOGY/CAPABILITY INSERTION IN THE TARGET SIGHT SYSTEM.
9/28/20	30.1	N00024-18-C-5218	PROCURE TECHNICAL INSERTION-20 (TI-20) SQQ-89A(V)15 SURFACE SHIP UNDERSEA WARFARE COMBAT SYSTEM HARDWARE, AND PROVIDE INCREMENTAL FUNDING IN SUPPORT OF THE CONTINUED SQQ-89A(V)15 DEVELOPMENT, INTEGRATION, MANUFACTURE, PRODUCTION, AND TESTING.
9/28/20	8.5	N00024-18-C-5109	DESIGN, DEVELOPMENT & MANUFACTURE OF AEGIS WEAPON SYSTEM SPECIAL TEST EQUIPMENT IN SUPPORT OF AEGIS INTEGRATED LOGISTICS SERVICES.
9/28/20	709.8	N00019-20-C-0009	ADVANCE ACQUISITION CONTRACT. THIS MODIFICATION PROVIDES FOR THE PROCUREMENT OF ECONOMIC ORDER QUANTITIES OF MATERIAL IN SUPPORT OF F-35 LIGHTNING II AIRCRAFT LOW RATE INITIAL PRODUCTION LOTS 15, 16 & 17 FOR THE AIR FORCE, MARINE CORPS, NAVY, NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
9/29/20	79.9	N00039-20-C-0013	A POTENTIAL VALUE OF \$79,986,940 WITH OPTIONS FFP CONTRACT. THIS EFFORT IS TO PROCURE MULTI-FUNCTIONMAST (OE-538A/OE-592A) ANTENNA GROUP UPGRADES & MULTI-FUNCTION MAST (OE-538B/OE-592B) ANTENNA GROUP.
9/29/20	?	FA8694-20-D-0800	A \$400,000,000 SHARED CEILING, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS FOR ALL SUBSEQUENT COMPETITIVELY SELECTED DELIVERY ORDERS IN SUPPORT OF THE SKYBORG VANGUARD PROGRAM. THESE CONTRACTS PROVIDE FOR SKYBORG PROTOTYPING, EXPERIMENTATION & AUTONOMY DEVELOPMENT, USED TO DELIVER MISSIONIZED PROTOTYPES IN SUPPORT OF OPERATIONAL EXPERIMENTATION. SKYBORG IS AN AUTONOMOUS ATTRITABLE AIRCRAFT CAPABLE OF ACHIEVING A DIVERSE SET OF MISSIONS TO GENERATE MASSED COMBAT POWER.
9/29/20	9.1	SPRHA5-20-D-0001	RADAR RECEIVERS, RADAR AMPLIFIERS & POWER SUPPLIES.
9/29/20	17.9	N00024-13-C-5116	EXERCISE AN OPTION FOR AEGIS COMBAT SYSTEM ENGINEERING AGENT EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF ADVANCED CAPABILITY BUILD 20.
9/30/20	13.4	W58RGZ-20-C-0046	MAINTENANCE & OVERHAUL OF HELICOPTER MECHANICAL TRANSMISSIONS.
9/30/20	19.3	FA8629-20-C-5036	SITUATIONAL AWARENESS COMMUNICATIONS UPGRADE (SACU). THIS CONTRACT PROVIDES FOR DESIGN, INTEGRATION & VALIDATION OF HARDWARE & SOFTWARE TO IMPROVE ON-BOARD SITUATIONAL AWARENESS OF THE OPERATIONAL ENVIRONMENT BETWEEN DISPARATE TACTICAL NETWORK SYSTEMS.

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Date	Award (USD millions)	Contract #	Description
9/30/20	13.2	W31P4Q-19-C-0101	CONTRACT FOR LAST TIME BUY OF PRODUCTION PARTS FOR HIGH MOBILITY ARTILLERY ROCKET SYSTEM LAUNCHERS.
9/30/20	26.9	W31P4Q-16-C-0036	CONTRACT FOR THE PROCUREMENT OF LAST TIME BUY PRODUCTION COMPONENTS FOR HIGH MOBILITY ARTILLERY ROCKET SYSTEMS LAUNCHERS.
9/30/20	498.4	N00030-20-C-0100	TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
9/30/20	7.1	N00024-17-C-6308	EXERCISE OPTIONS FOR ENGINEERING SUPPORT SERVICES IN SUPPORT OF UNMANNED UNDERSEA VEHICLE (UUV) SUBSYSTEM DEVELOPMENT.
9/30/20	19.3	FA8730-20-C-0005	CONTRACT FOR IRAQ INTEGRATED AIR DEFENSE SYSTEM CONTRACTOR LOGISTICS SUPPORT (CLS).
9/30/20	79.0	N00383-19-D-U001	CONTRACT FOR REPAIR, REPLACEMENT & PROGRAM SUPPORT COVERING 10 COMPONENTS, INCLUDING THE TAIL GEARBOX ASSEMBLY, NOSE GEARBOX ASSEMBLY, DAMPER & SWASHPLATE IN SUPPORT OF THE CH-53 & MH-53 AIRCRAF.
10/1/20	68.6	N00030-20-C-0045	CONTRACT FOR THE U.S. & UNITED KINGDOM TO PROVIDE STRATEGIC WEAPON SYSTEM TRIDENT FLEET SUPPORT, TRIDENT II SSP SHIPBOARD INTEGRATION (SSI) INCREMENT 8, SSI INCREMENT 16, COLUMBIA CLASS & U.K. DREADNOUGHT CLASS NAVIGATION SUBSYSTEM DEVELOPMENT EFFORTS.
10/2/20	35.6	HQ0851-21-C-0001	FMS CASE JA-P-NCO TO THE GOVERNMENT OF JAPAN
10/5/20	12.1	N00024-11-C-2300	EXERCISE AN OPTION FOR POST-DELIVERY SUPPORT FOR THE LITTORAL COMBAT SHIP USS COOPERSTOWN (LCS 23).
10/6/20	78.5	N00024-18-C-2300	EXERCISE OPTIONS FOR THE ACCOMPLISHMENT OF CLASS DESIGN SERVICES FOR THE LITTORAL COMBAT SHIP PROGRAM.
10/20/20	13.7	W58RGZ-17-C-0009	CONTRACT FOR ONE UH-60M BLACK HAWK HELICOPTER.
10/20/20	138.8	N00019-19-C-0010	THIS MODIFICATION ADDS SCOPE TO CONTINUE THE DEVELOPMENT OF PILOT TRAINING DEVICE SOFTWARE TO ALIGN THE F-35 AIR SYSTEM WITH CONTINUED CAPABILITY DEVELOPMENT
10/20/20	12.7	N00019-16-C-0033	THIS MODIFICATION ADDS SCOPE IN SUPPORT OF THE F-35 LIGHTNING II LOT 11 DIMINISHING MANUFACTURING SOURCES REDESIGN OF THE ELECTRICAL OPTICAL TARGETING SYSTEM, 270V BATTERY CELL SEPARATOR & A COMPONENT FOR THE HELMET MOUNTED DISPLAY SYSTEM FOR NAVY, MARINE CORPS, AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS
10/26/20	?	N00019-19-C-0013	THIS MODIFICATION ADDS A \$180,000,000 NOT-TO-EXCEED, UNDEFINITIZED LINE ITEM FOR THE PRODUCTION & DELIVERY OF FOUR MH-60R AIRCRAFT, AND EXERCISES A \$13,980,348 OPTION TO PROCURE THREE AIRBORNE LOW FREQUENCY SONARS IN SUPPORT OF THE GOVERNMENT OF GREECE.

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Date	Award (USD millions)	Contract #	Description
10/26/20	550.4	N00019-16-C-0048	THIS MODIFICATION IS FOR LOT IV LOW RATE INITIAL PRODUCTION & DELIVERY OF SIX CH-53K AIRCRAFT & ASSOCIATED AIRCRAFT, PROGRAMMATIC & LOGISTICS SUPPORT, RATE TOOLING & PHYSICAL CONFIGURATION AUDITS.
10/28/20	25.0	FA8217-20-D-0006	CONTRACT FOR THE ATMOSPHERIC EARLY WARNING SYSTEM FPS-117 RADAR PROGRAM.
10/28/20	9.8	N00019-19-G-0029	THIS ORDER PROVIDES NON-RECURRING ENGINEERING FOR THE PRODUCTION OF TARGET DESIGNATOR SETS & ELECTRO-OPTICAL IN SUPPORT OF AH-1Z LIGHT ATTACK HELICOPTERS FOR FMS CUSTOMERS
10/29/20	73.8	N00019-20-C-0037	THIS CONTRACT MODIFICATION EXERCISES AN OPTION TO PROVIDE CONTINUED F-35 DEVELOPMENT LAB INFRASTRUCTURE ACTIVITIES AS WELL AS RECURRING ADMINISTRATION, MAINTENANCE & PREPARATION OF THE F-35 LABORATORIES TO TEST DEVELOPED CONFIGURATIONS ACROSS THE F-35 PLATFORM.
10/29/20	7.7	N00024-19-D-6200	MODIFICATION TO PREVIOUSLY AWARDED TASK ORDER UNDER INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR THE DESIGN, PROTOTYPING & QUALIFICATION TESTING FOR THE TECHNICAL INSERTION-20 BLQ-10 ELECTRONIC WARFARE SYSTEM.
10/30/20	724.0	HQ0851-21-C-0002	CONDUCT FULL DEVELOPMENT & LIFECYCLE ENGINEERING FOR THE AEGIS WEAPON SYSTEM (AWS) FIELDING FOR CRUISERS, DESTROYERS & AEGIS ASHORE CONFIGURATIONS.
10/30/20	7.8	FA8823-17-C-0003	SYSTEM SUSTAINMENT OF THE METEOROLOGICAL DATA STATION.
10/30/20	17.9	N00383-20-G-Y500	SUPPORT OF FIVE LINE ITEMS FOR THE PROCUREMENT OF THE ELECTRONIC CONSOLIDATED AUTOMATED SUPPORT SYSTEM USED ON A SUPPORT EQUIPMENT TEST BENCH.
10/30/20	16.6	N00019-19-G-0029	THIS MODIFICATION PROCURES 190 SPARE PARTS & PROVIDES SUPPORT FOR THE REPAIR & MAINTENANCE OF THE CH-53K LOW RATE INITIAL PRODUCTION CONFIGURATION AIRCRAFT.
11/4/20	47.9	W58RGZ-17-C-0009	MODIFICATION TO CONTRACT FOR UH-60M AIRCRAFT.
11/5/20	53.2	FA8615-12-C-6016	CONTRACT FOR MISCELLANEOUS SUPPORT FOR 50 RETROFIT AIRCRAFT TO THE TAIWAN F-16 PEACE PHOENIX RISING PROGRAM.
11/6/20	14.3	HQ0276-16-C-0001	MODIFICATION UNDER THE POLAND AEGIS ASHORE ENGINEERING AGENT CONTRACT.
11/6/20	17.5	N00024-20-C-5392	MODIFICATION TO A PREVIOUSLY AWARDED CONTRACT TO EXERCISE OPTIONS TO PROVIDE DESIGN AGENT ENGINEERING SERVICES FOR THE MK 41 VERTICAL LAUNCHING SYSTEM (VLS) ELECTRONIC SYSTEMS & COMPUTER PROGRAMS.
11/6/20	339.3	W50RAJ-21-9-0001	AN OTHER TRANSACTION AUTHORITY AGREEMENT WITH A CEILING OF \$339,318,582 FOR THE MID-RANGE CAPABILITY

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Date	Award (USD millions)	Contract #	Description
11/6/20	258.3	FA8808-21-C-0015	EVOLVED STRATEGIC SATELLITE COMMUNICATION (ESS) CONTRACT. THIS CONTRACT WILL DEVELOP A PROTOTYPE PAYLOAD & CONCLUDE IN A HARDWARE & SOFTWARE IN-THE-LOOP, END-TO-END DEMONSTRATION.
11/16/20	22.8	N00019-19-G-0029	THIS MODIFICATION EXERCISES AN OPTION TO PROCURE 12 RETROFIT ADVANCED RADAR PROCESSOR SYSTEMS FOR THE E-2D ADVANCED HAWKEYE AIRCRAFT.
11/16/20	11.9	N00019-20-C-0026	THIS MODIFICATION PROVIDES CONTINUED SUPPORT REQUIRED TO ESTABLISH THE COMMON REPROGRAMMING TOOL DEVELOPMENT NETWORK & SELECTION OF A SERVICE-ORIENTED ARCHITECTURE FOR THE DEVELOPMENT OF ENHANCED REPROGRAMMING TOOLS, WHICH IS ESSENTIAL FOR ALL STANDING LABS IN SUPPORT OF THE F-35 AIRCRAFT FOR THE NAVY, AIR FORCE, MARINE CORPS, AND THE GOVERNMENTS OF AUSTRALIA & GREAT BRITAIN.
11/18/20	16.4	N00019-19-G-0029	THIS MODIFICATION PROVIDES FOR FISCAL 2021 SPECIAL PROGRESSIVE AIRCRAFT REWORK SUSTAINMENT EFFORTS IN SUPPORT OF THE VH-3D/VH-60N EXECUTIVE HELICOPTER.
11/23/20	9.3	FA8682-21-C-2000	CONTRACT FOR THE LONG RANGE SYSTEMS DIV SEEKING TO INTEGRATE THE NAVY ADVANCED ANTI-RADIATION GUIDED MISSILE-EXTENDED RANGE (AARGM-ER) INTO THE F-35.
11/23/20	14.1	FA8620-14-C-4022	CONTRACT TO DEVELOP, INTEGRATE & LAB TEST DETECTION, REMOVAL & CHARACTERIZATION OPERATIONS.
11/23/20	108.8	N00030-20-C-0100	EXERCISE OPTIONS UNDER PREVIOUSLY AWARDED CONTRACT FOR TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
11/23/20	34.9	FA8219-20-C-0001	CONTRACT FOR MK21A TECHNOLOGY MATURATION & RISK REDUCTION (TMRR) RESEARCH & DEVELOPMENT FOR REENTRY VEHICLES (RVS).
11/23/20	9.6	N68335-17-C-0253	THIS MODIFICATION EXERCISES AN OPTION TO PROVIDE THE SECOND PHASE OF INTERIM CONTRACTOR SUPPORT FOR FLEET REPAIR OF REPAIRABLES (ROR), NON-FLEET ROR & INSTALLATION ROR SUPPORT FOR THE COMMON AVIATION SUPPORT EQUIPMENT PROGRAM OFFICE.
11/24/20	14.1	N00024-18-C-5300	MODIFICATION TO PREVIOUSLY AWARDED CONTRACT TO EXERCISE OPTIONS FOR SLQ-32(V)6 DESIGN AGENT ENGINEERING SERVICES.
11/25/20	42.1	FA8682-18-C-0009	MODIFICATION TO CONTRACT FOR THE JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM) GROUP ONE DEVELOPMENT. THIS CONTRACT MODIFICATION SUPPORTS THE GLOBAL POSITIONING SYSTEM RECEIVER DEVELOPMENT & THE DEVELOPMENT OF THE MISSILE CONTROL UNIT GIGABIT CABLES
11/27/20	62.9	N00019-19-G-0008	THIS MODIFICATION EXERCISES AN OPTION TO PROVIDE NON-RECURRING & RECURRING LABOR ASSOCIATED WITH AIRCRAFT MODIFICATION EFFORTS.

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Date	Award (USD millions)	Contract #	Description
11/30/20	1400.0	FA8553-21-D-0001	FMS FOR C-130J AIRCRAFT SUSTAINMENT SUPPORT. THE ORDERING PERIOD FOR THIS AWARD IS 10 YEARS FROM CONTRACT AWARD. . SERVICES INCLUDE PROGRAM MANAGEMENT SUPPORT, SPARES, SUPPLY SUPPORT SERVICES, SUPPORT EQUIPMENT, DIMINISHING MANUFACTURING SOURCES, SUSTAINING ENGINEERING SERVICES, SUSTAINING ENGINEERING/TECHNICAL SERVICES, FIELD SERVICES REPRESENTATIVES, LOGISTICS SERVICE REPRESENTATIVES, TECHNICAL ORDER UPDATES, TECHNICAL ORDER PRINT & DISTRIBUTION, COUNTRY STANDARD TIME COMPLIANCE TECHNICAL ORDERS & DEPOT MAINTENANCE.
11/30/20	7.7	N00024-14-C-5104	EXERCISE OPTIONS FOR SHIP INTEGRATION & TEST OF THE AEGIS WEAPON SYSTEM (AWS) FOR AWS BASELINES THROUGH ADVANCED CAPABILITY BUILD (ACB) 12.
12/1/20	12.4	N00019-19-C-0013	THIS MODIFICATION ADDS SCOPE TO PROVIDE NON-RECURRING ENGINEERING & OBSOLESCENCE SERVICES IN SUPPORT OF THE AIRBORNE LOW FREQUENCY SONARS INTEGRATION INTO MH-60R PRODUCTION AIRCRAFT FOR THE GOVERNMENTS OF INDIA & DENMARK.
12/2/20	48.7	N00024-13-C-5116	EXERCISE AN OPTION FOR AEGIS COMBAT SYSTEM ENGINEERING AGENT EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF ADVANCED CAPABILITY BUILD 20.
12/4/20	29.1	N00030-20-C-0100	MODIFICATION TO PROCURE A PILOT ASSESSMENT OF THE CONTRACTOR'S PROPERTY MANAGEMENT SYSTEM & EXERCISE OPTIONS UNDER PREVIOUSLY AWARDED CONTRACT FOR TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
12/8/20	89.2	N68335-18-C-0681	HIS MODIFICATION EXERCISES AN OPTION TO PROCURE 35 ELECTRONIC CONSOLIDATED AUTOMATED SUPPORT SYSTEM (ECASS) FULL RATE PRODUCTION UNITS & RELATED EQUIPMENT.
12/9/20	31.1	W58RGZ-16-C-0008	MODIFICATION TO CONTRACT FOR SUSTAINMENT OF THE MODERNIZED TARGET ACQUISITION DESIGNATION SIGHT/PILOT NIGHT VISION SENSOR PERFORMANCE BASED LOGISTICS PROGRAM.
12/10/20	10.4	W31P4Q-19-C-0071	ENGINEERING SERVICES IN SUPPORT OF THE HELLFIRE MISSILE & JOINT-AIR-TO-GROUND MISSILE.
12/11/20	900.0	FA8232-21-D-0005	A CEILING \$900,000,000 FFP, TIME-AND-MATERIALS, OVER-AND-ABOVE, COST-REIMBURSEMENT CONTRACT TO STAND UP A CONTINENTAL U.S.-BASED CONTRACTOR FACILITY TO PERFORM DEPOT-LEVEL MAINTENANCE & AIRCRAFT MODIFICATION SERVICES IN SUPPORT OF THE F-16 AIRCRAFT.

**Lockheed Martin**

Date	Award (USD millions)	Contract #	Description
12/11/20	43.6	N00030-20-C-0045	CONTRACT MODIFICATION TO PREVIOUSLY AWARDED & ANNOUNCED CONTRACT FOR THE U.S. & UNITED KINGDOM (U.K.) TO PROVIDE STRATEGIC WEAPON SYSTEM TRIDENT FLEET SUPPORT, TRIDENT II SSP SHIPBOARD INTEGRATION (SSI) INCREMENT 8, SSI INCREMENT 16, COLUMBIA CLASS & U.K. DREADNOUGHT CLASS NAVIGATION SUBSYSTEM DEVELOPMENT EFFORTS.
12/11/20	36.5	N00019-18-C-1048	THIS MODIFICATION ADDS SCOPE TO PROVIDE ADDITIONAL INTERMEDIATE LEVEL MAINTENANCE CAPABILITIES IN SUPPORT OF THE F-35 JOINT STRIKE FIGHTER FOR THE NAVY & THE MARINE CORPS.
12/11/20	68.2	N00019-14-G-0020	THIS MODIFICATION ADDS SCOPE TO PROCURE ADDITIONAL TECHNICAL REFRESH 3 (TR3) TEST ASSETS TO ALLOW FOR TEST LABORATORY UPGRADES & FOR TEST AIRCRAFT MODIFICATIONS. THIS MODIFICATION WILL RESULT IN THE PROCUREMENT & DELIVERY OF TR3 SYSTEM LABORATORY & FLIGHT TEST ASSETS FOR THE AIR FORCE, NAVY, MARINE CORPS & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
12/16/20	9.3	N00024-17-C-6259	MODIFICATION TO PREVIOUSLY-AWARDED CONTRACT TO EXERCISE AN OPTION FOR FMS ENGINEERING SERVICES, MATERIALS & SPARES.
12/18/20	9.3	N00030-20-C-0045	CONTRACT MODIFICATION TO PREVIOUSLY AWARDED & ANNOUNCED CONTRACT FOR THE U.S. & UNITED KINGDOM (U.K.) TO PROVIDE STRATEGIC WEAPON SYSTEM TRIDENT FLEET SUPPORT, TRIDENT II SSP SHIPBOARD INTEGRATION (SSI) INCREMENT 8, SSI INCREMENT 16, COLUMBIA CLASS & U.K. DREADNOUGHT CLASS NAVIGATION SUBSYSTEM DEVELOPMENT EFFORTS
12/18/20	48.6	FA8682-18-C-0009	MODIFICATION TO CONTRACT FOR THE JOINT AIR-TO-SURFACE STANDOFF MISSILE GROUP ONE DEVELOPMENT.
12/21/20	27.9	N00024-19-C-6400	MODIFICATION TO PREVIOUSLY AWARDED CONTRACT FOR SYSTEMS ENGINEERING & INTEGRATION ON NAVY SUBMARINES.
12/21/20	101.0	N61340-21-C-0010	THIS CONTRACT PROCURES INSTRUCTOR SERVICES & ASSOCIATED ADMINISTRATIVE SUPPORT INCLUDING CONTROL ACCOUNT MANAGERS, FUNCTIONAL MANAGERS, PROGRAM MANAGERS, SECURITY, OPERATIONAL PLANNING, CONTRACT, FINANCE & LAB SUPPORT TO MEET INTEGRATED WEAPONS SYSTEMS & AEGIS TRAINING REQ FOR FMS CUSTOMERS.
12/22/20	60.1	N00019-19-D-0015	THIS MODIFICATION INCREASES THE CEILING & ADDS SCOPE TO PROCURE ADDITIONAL ANCILLARY MISSION EQUIPMENT/PILOT FLIGHT EQUIPMENT INITIAL SPARES, INCLUDING GLOBAL, BASE, DEPLOYMENT & AFLOAT SPARES PACKAGES IN SUPPORT OF F-35 LOT 14 AIRCRAFT DELIVERIES FOR THE NAVY, AIR FORCE, MARINE CORPS, NON-DEPARTMENT OF DEFENSE PARTICIPANTS & FMS CUSTOMERS' OPERATIONAL AIRCRAFT.

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Date	Award (USD millions)	Contract #	Description
12/23/20	22.0	HQ0851-21-C-0001	A \$22,013,540 SOLE-SOURCE HYBRID, CPFF, FFP CONTRACT MODIFICATION UNDER FMS CASE JA-P-NCO CONTRACT HQ0851-21-C-0001. THIS MODIFICATION EXTENDS PERFORMANCE OF AEGIS FMS BASELINE J7.B DEVELOPMENT & RADAR PRODUCTION, INTEGRATION, TEST PLANNING SUPPORT & INCLUDES ASSESSMENT OF ALTERNATIVES STUDIES.
12/23/20	28.1	FA8691-20-C-3110	FOLLOW-ON SUPPORT SUSTAINMENT OF THE REPUBLIC OF KOREA PEACE KRYPTON PROGRAM. THIS CONTRACT PROVIDES FOR SUPPORT OF THE FIELD SERVICE REPRESENTATIVE, PROGRAM MANAGEMENT, CORE/FIELD ENGINEERING, SYSTEM DEPOT SUPPORT FACILITY SUSTAINMENT, TECHNICAL MANUALS SUSTAINMENT & OBSOLESCENCE MANAGEMENT.
12/23/20	96.5	N00019-20-F-0571	THIS MODIFICATION EXERCISES OPTIONS FOR SERVICES ASSOCIATED WITH AIRCRAFT MODIFICATION EFFORTS FOR THE F-35 JOINT STRIKE FIGHTER PROGRAM, INCLUDING MODIFICATION & REACH-BACK ENGINEERING SERVICES, SUPPORT FOR DEPOTS, LASER SHOCK PEENING SITE SUPPORT & MATERIAL SUPPORT DEPOT SITE SUPPORT.
12/23/20	8.7	N00019-20-F-0532	THIS MODIFICATION ADDS SCOPE TO PROVIDE PROGRAM MANAGEMENT SUPPORT TO EXECUTE THE PLANNING, PROCUREMENT & DELIVERY OF INITIAL AIRCRAFT SPARES IN SUPPORT OF THE F-35 LIGHTNING II JOINT PROGRAM OFFICE, AIR FORCE, MARINE CORPS & NAVY; NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS OPERATIONAL AIRCRAFT.
12/28/20	23.7	?	A MAXIMUM \$23,686,704 FFP DELIVERY ORDER (SPRPA1-21-F-RJ00) AGAINST A FIVE-YEAR BOA (SPRPA1-19-G-0008) FOR H-1 AIRCRAFT TURRET ASSEMBLIES.
12/28/20	46.0	?	A \$46,026,156 MODIFICATION (P00002) TO A CPFF ORDER (N0001920F0443) AGAINST A PREVIOUSLY ISSUED BOA (N0001919G0008). THIS MODIFICATION ADDS SCOPE FOR THE PRODUCTION & DELIVERY OF A REDESIGNED ELECTRONIC WARFARE/COUNTER MEASURES QUAD-CHANNEL UP CONVERTER/QUAD-CHANNEL TUNER MODULE & ELECTRICAL POWER MANAGEMENT SYSTEM IN SUPPORT OF THE F-35 JOINT STRIKE FIGHTER DIMINISHING MANUFACTURING SOURCES REDESIGN EFFORTS FOR THE NAVY, MARINE CORPS, AIR FORCE & NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.



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Date	Award (USD millions)	Contract #	Description
12/28/20	1287.6	N00019-21-C-0020	THIS CONTRACT PROCURES RECURRING LOGISTICS SERVICES, INCLUDING GROUND MAINTENANCE ACTIVITIES, ACTION REQUEST RESOLUTION, DEPOT ACTIVATION ACTIVITIES, AUTOMATIC LOGISTICS INFORMATION SYSTEM OPERATIONS & MAINTENANCE, RELIABILITY, MAINTAINABILITY & HEALTH MANAGEMENT IMPLEMENTATION, AND SUPPORT, SUPPLY CHAIN MANAGEMENT & ACTIVITIES TO PROVIDE & SUPPORT PILOT & MAINTAINER INITIAL TRAINING IN SUPPORT OF IN-SERVICE F-35 LIGHTNING II JOINT STRIKE FIGHTER AIR SYSTEMS FOR THE AIR FORCE, MARINE CORPS, NAVY, NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
12/28/20	101.5	N00019-18-C-1048	THIS MODIFICATION ADDS SCOPE TO PROVIDE SUSTAINMENT SERVICES & OUTCOMES FOR THE UNITED KINGDOM (U.K.) MINISTRY OF DEFENSE, SUPPORTING DAILY FLIGHT OPERATIONS WITH THE NATIONAL SPECIFIC CAPABILITIES REQUIRED AT VARIOUS F-35 OPERATING SITES IN SUPPORT OF THE F-35 LIGHTNING II U.K. LIGHTNING AIR-SYSTEM NATIONAL CAPABILITY ENTERPRISE.
12/29/20	18.6	N00019-16-C-0004	THIS MODIFICATION EXERCISES AN OPTION TO PROVIDE MAINTENANCE & OPERATION SUPPORT FOR THE AUSTRALIA, CANADA, UNITED KINGDOM REPROGRAMMING LABORATORY (ACURL). THIS EFFORT INCLUDES SUPPORT FOR ALL ACURL SYSTEMS TO INCLUDE CONSUMABLES FOR THE F-35 AIRCRAFT IN SUPPORT OF THE GOVERNMENTS OF AUSTRALIA, CANADA & THE UNITED KINGDOM.
12/30/20	34.2	N00024-13-C-5116	MODIFICATION TO A PREVIOUSLY AWARDED CONTRACT TO EXERCISE AN OPTION FOR AEGIS COMBAT SYSTEM ENGINEERING AGENT EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF ADVANCED CAPABILITY BUILD 20.
12/30/20	731.1	N00024-21-C-5119	ENGINEERING & TECHNICAL SERVICES FOR AEGIS IN-SERVICE COMBAT SYSTEMS ENGINEERING, SHIP INTEGRATION & TEST ENGINEERING, COMPUTER PROGRAM MAINTENANCE, INTEGRATED LOGISTICS SUPPORT & PLANNING & IN-COUNTRY SUPPORT FOR MULTIPLE INT'L PARTNERS EMPLOYING AEGIS
12/30/20	903.6	?	A \$903,585,384 MODIFICATION TO A PREVIOUSLY AWARDED, FPI (FIRM TARGET) CONTRACT. THIS MODIFICATION PROCURES LONG LEAD MATERIALS, PARTS, COMPONENTS & SUPPORT NECESSARY TO MAINTAIN ON-TIME PRODUCTION & DELIVERY OF 133 LOT 16 F-35 AIRCRAFT FOR THE NAVY, MARINE CORPS, AIR FORCE, NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS & FMS CUSTOMERS.
12/30/20	74.1	N00019-16-C-0048	THIS MODIFICATION ADDS SCOPE TO PROVIDE LOW RATE INITIAL PRODUCTION ORGANIC CAPABILITY PILOT REPAIR MATERIAL, TECHNICAL PUBLICATIONS, PECULIAR SUPPORT EQUIPMENT & LOGISTICS SUPPORT FOR THE CH-53K AIRCRAFT.
12/31/20	62.2	HQ0147-14-C-0004	CONTRACT FOR TARGETS & COUNTERMEASURES HIGHLY SPECIALIZED SERVICES.

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Date	Award (USD millions)	Contract #	Description
12/31/20	65.3	N00024-19-C-5603	CONTRACT FOR SHIP SELF-DEFENSE SYSTEM COMBAT SYSTEM ENGINEERING SUPPORT.
<b>2020</b>			
1/4/21	4,934.4	FA8810-18-C-0005	A NOT-TO-EXCEED \$4,934,360,150 UNDEFINITEZED MODIFICATION TO CONTRACT WHICH CONSISTS OF ALL WORK ASSOCIATED WITH THE MANUFACTURING, ASSEMBLY, INTEGRATION, TEST, AND DELIVERY OF THREE NEXT GENERATION GEOSYNCHRONOUS (NGG) EARTH ORBITING SPACE VEHICLES (SV), AND DELIVERY OF GROUND MISSION UNIQUE SOFTWARE & GROUND SENSOR PROCESSING SOFTWARE. ADDITIONALLY, THIS MODIFICATION INCLUDES ENGINEERING SUPPORT FOR LAUNCH VEHICLE INTEGRATION & LAUNCH & EARLY ON-ORBIT CHECKOUT FOR ALL THREE NGG SVS.
1/7/21	13.1	N00019-20-C-0052	THIS MODIFICATION EXERCISES AN OPTION TO PROCURE CONTINUED MAINTENANCE & SUSTAINMENT OPERATION SUPPORT FOR NORWAY ITALY REPROGRAMMING LABORATORY SYSTEMS & CONSUMABLES IN SUPPORT OF THE JOINT STRIKE FIGHTER AIRCRAFT FOR THE GOVERNMENTS OF NORWAY & ITALY
1/8/21	58.9	HR0011-20-C-0038	TO EXERCISE THE CONTRACT LINE ITEM NUMBER 0003 OPTION FOR DEVELOPMENT OF THE INTEGRATED OPFIRES SYSTEM. THIS INCLUDES RISK REDUCTION TESTING TO ACHIEVE A SYSTEM-LEVEL CRITICAL DESIGN MATURITY.
1/15/21	254.7	HQ0147-19-C-5001	FMS THE UNITED ARAB EMIRATES (UAE). UNDER THIS FOLLOW-ON CONTRACT, THE CONTRACTOR WILL PROVIDE MAINTENANCE & SUSTAINMENT FOR TWO TERMINAL HIGH ALTITUDE AREA DEFENSE BATTERIES FOR UAE. THE MAINTENANCE & SUSTAINMENT SCOPE OF WORK INCLUDES PROVIDING LOGISTICS MANAGEMENT, LOGISTICS PRODUCT DATABASE, TRAINING, MISSILE & GROUND REPAIR & RETURN, HARDWARE/SOFTWARE DEVELOPMENT & SUSTAINMENT, HARDWARE IN THE LOOP, ENGINEERING SERVICES, MISSILE FIELD SURVEILLANCE PROGRAM & COUNTRY UNIQUE SPECIALTY ENGINEERING FOR FMS CLIENT.
1/15/21	13.0	N00019-19-G-0008	THIS MODIFICATION PROCURES NON-RECURRING SITE STAND-UP ACTIVITY, CAPABILITY DEVELOPMENT, INFORMATION TECHNOLOGY SYSTEMS INTEGRATION & ASSOCIATED CHANGES TO F-35 LIGHTNING II PROGRAM & INDUSTRY PROCESSES AS NEEDED TO ALLOW THE DEFENSE LOGISTICS AGENCY & U.S. TRANSPORTATION COMMAND TO ASSUME NORTH AMERICAN REGIONAL WAREHOUSE & GLOBAL TRANSPORTATION & DISTRIBUTION PRODUCT SUPPORT PROVIDER RESPONSIBILITIES.
1/26/21	49.7	N00019-19-G-0029	THIS MODIFICATION ADDS SCOPE FOR THE PRODUCTION & DELIVERY OF 19 AAQ-30A TARGET SIGHT SYSTEMS; 14 FOR THE GOVERNMENT OF SAUDIA & FIVE FOR THE GOVERNMENT OF THE CZECH REPUBLIC.

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Date	Award (USD millions)	Contract #	Description
1/26/21	64.1	N00019-19-G-0008	THIS MODIFICATION EXERCISES OPTIONS FOR THE PROCUREMENT OF DIGITAL CHANNELIZED RECEIVER/TECHNIQUES GENERATOR & TUNER INSERTION PROGRAM TECHNOLOGY TO UPGRADE F-35 JOINT STRIKE FIGHTER AIRCRAFT WITH DIGITAL TUNER INSERTION PROGRAM ELECTRONIC WARFARE RACKS & HIGH EFFICIENCY LOW VOLTAGE POWER SUPPLY.
1/27/21	129.4	FA8525-21-F0003	CONTRACT FOR C-5 CONTRACTOR LOGISTIC SUPPORT SERVICES. THIS CONTRACT INVOLVES SUPPLY CHAIN MANAGEMENT, REPAIR & TECHNICAL SUPPORT SERVICES.
1/27/21	11.4	N68335-21-D-0045	THIS CONTRACT PROVIDES ENGINEERING & LOGISTICS SERVICES IN SUPPORT OF THE MARITIME PATROL & RECONNAISSANCE AIRCRAFT PROGRAM TO MONITOR & MANAGE FATIGUE & OBSOLESCENCE ISSUES & OPERATIONAL AND/OR TECHNICAL PROBLEMS ARISING FROM P-3 FLEET USAGE FOR THE NAVY, FMS CUSTOMERS & OTHER U.S. GOVERNMENT AGENCIES.
1/28/21	33.2	N00019-21-D-0011	THIS CONTRACT PROVIDES FOR THE PROCUREMENT OF UP TO A MAXIMUM QUANTITY OF 38 LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) A-KITS, UP TO 38 SUPPLEMENTAL KITS, FIVE BENCH STOCK KITS & LAIRCM-ADVANCED THREAT WARNING A-KIT REPLACEMENT PARTS IN SUPPORT OF THE C/KC-130J AIRCRAFT.
1/29/21	15.9	W31P4Q-18-C-0130	DEVELOP A SECOND SOURCE FOR THE QUALIFICATION & FACILITIZATION OF THE ELECTROMECHANICAL CONTROL ACTUATION SYSTEM FOR THE HELLFIRE MISSILE.
1/29/21	10.9	N00030-20-C-0100	TRIDENT II (D5) DEPLOYED SYSTEMS SUPPORT.
1/29/21	64.3	FA8730-21-C-0001	F-16 FMS MISSION PLANNING. THIS CONTRACT PROVIDES FOR THE DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF THE JOINT MISSION PLANNING SYSTEM UNIQUE PLANNING COMPONENT/MISSION PLANNING ENVIRONMENT SOFTWARE UPDATES.
2/1/21	14.2	N00024-19-G-2313	PROVIDE ENGINEERING & MANAGEMENT SERVICES FOR LCS-21 POST SHAKEDOWN AVAILABILITY.
2/9/21	26.8	N00019-20-C-0037	THIS MODIFICATION EXERCISES AN OPTION TO PROVIDE CONTINUED SUPPORT FOR TRAINING SYSTEM PRODUCT DEVELOPMENT, INTEGRATION & TEST FOR CURRENT, FIELDIED & PLANNED HARDWARE BASELINES INSUPPORT OF THE F-35 TRAINING SYSTEMS LABS FOR THE NAVY, MARINE CORPS, AIR FORCE & NON-DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
2/18/21	9.9	W31P4Q-17-C-0173	CONTRACT FOR CONTRACTOR FIELD SUPPORT TECHNICIANS.
2/18/21	19.0	N68335-18-C-0681	THIS MODIFICATION EXERCISES AN OPTION TO PROCURE SIX FULL RATE PRODUCTION ELECTRONICCONSOLIDATED AUTOMATED SUPPORT SYSTEM UNITS & RELATED EQUIPMENT, INCLUDING THREE SELF-MAINTENANCE & TEST/CALIBRATION OPERATIONAL TEST PROGRAM SETS & THREE SHORE INSTALLATION KITS IN SUPPORT OF THE NAVY'S F-35 PROGRAM & FMS CUSTOMERS.

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Date	Award (USD millions)	Contract #	Description
2/19/21	10.0	N00024-19-D-6200	DESIGN, PROTOTYPING & QUALIFICATION TESTING FOR THE TI-20/TI-22 BLQ-10.
2/22/21	428.4	FA8682-21-C-0001	CONTRACT, FOR 400 LOT 19 JOINT AIR-TO-SURFACE STANDOFF MISSILE – EXTENDED RANGE MISSILES WITH CONTAINERS, TRAINING & PRODUCTION PREPARATION, TOOLING & TEST EQUIPMENT & HARDWARE SPARES
2/22/21	414.3	FA8682-21-C-0004	CONTRACT FOR 137 LOTS 4 & 5 LONG RANGE ANTI-SHIP MISSILES, TOOLING & TEST EQUIPMENT
2/25/21	8.3	N00024-13-C-5116	EXERCISE AN OPTION FOR AEGIS COMBAT SYSTEM ENGINEERING AGENT EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST & DELIVERY OF ADVANCED CAPABILITY BUILD 20.
2/25/21	14.9	N00019-17-C-0022	THIS MODIFICATION EXERCISES AN OPTION TO PROVIDE 4,002 BDU-59B/B LASER GUIDED TRAINING ROUNDS.
2/26/21	18.7	W31P4Q-19-C-0059	SUPPORT SERVICES FOR THE JAVELIN WEAPON SYSTEM.
2/26/21	8.4	W31P4Q-18-C-0049	CONTRACT FOR PROCUREMENT OF TOOLING TO SUPPORT PRODUCTION OF ALTERNATE WARHEADS.
2/26/21	46.9	N00024-19-D-6200	PROCUREMENT OF SUBMARINE MODERNIZATION KITS, EQUIPMENT & INSTALLATION.
3/1/21	128.7	N00030-21-C-2017	INTEGRATION OF THE TRIDENT II (D5) MISSILE & REENTRY SUBSYSTEMS INTO THE COMMON MISSILE COMPARTMENT (CMC) FOR THE U.S./UNITED KINGDOM COLUMBIA/DREADNOUGHT SUBMARINE CONSTRUCTION PROGRAMS.
3/3/21	38.7	N00019-18-D-0129	THIS MODIFICATION EXERCISES AN OPTION FOR ORDERING EMERGING CAPABILITIES & ANALYSIS SYSTEMS ENGINEERING TO INCLUDE PROGRAMMATIC & LOGISTICS TASKS THAT WILL ANALYZE THE F-35 AIR SYSTEM'S ABILITY TO MEET FUTURE OPERATIONAL REQ, INVESTIGATING COST & WEIGHT REDUCTION PROGRAM OPTIONS & CONDUCTING MODELING & SIMULATION ACTIVITIES. ADDITIONAL ASSESSMENTS MAY INCLUDE SUCH EFFORTS AS ANALYZING CHANGES TO DESIGN LIFE, OPERATIONAL READINESS, RELIABILITY & AIR SYSTEM DESIGN & CONFIGURATION.
3/4/21	7.8	HR0011-21-C-0024	CONTRACT FOR THE LONGSHOT, PHASE 1. THIS CONTRACT PROVIDES FOR THE RESEARCH, DEVELOPMENT & DEMONSTRATION OF THE LONGSHOT UNMANNED AIR VEHICLE (UAV).
3/4/21	51.0	FA4890-21-D-0006	CONTRACT FOR SEVERAL TECHNICAL REQUIREMENT AREAS IN A RESEARCH & DEVELOPMENT ENVIRONMENT.
3/9/21	20.1	N00024-18-C-5392	EXERCISE OPTIONS FOR TECHNICAL ENGINEERING SERVICES & SUSTAINMENT LABOR FOR HIGH ENERGY LASER & INTEGRATED OPTICAL-DAZZLER WITH SURVEILLANCE SYSTEM.
3/11/21	1537.9	N00030-19-C-0025	CONTRACT FOR THE DESIGN, DEVELOPMENT, BUILD & INTEGRATION OF EQUIPMENT FOR MISSILE FLIGHT TEST DEMONSTRATIONS & FIELDING. THIS MODIFICATION PROVIDES THE DEFINITIZATION OF THE UN-PRICED LTR CTRC MODIFICATIONS PH0001 & PH0006.
3/11/21	201.7	W31P4Q-18-C-0130	PROCUREMENT OF JOINT AIR-TO-GROUND MUNITIONS.

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Date	Award (USD millions)	Contract #	Description
3/11/21	13.6	N00024-18-C-6408	CONTRACT TO EXERCISE OPTIONS FOR ENGINEERING & MAINTENANCE SERVICES FOR THE HEAVYWEIGHT MK48 TORPEDO PROGRAM AT THE INTERMEDIATE MAINTENANCE ACTIVITY, PEARL HARBOR, HI.
3/12/21	558.8	N00030-20-C-0100	EXERCISE OPTIONS UNDER PREVIOUSLY AWARDED CONTRACT FOR TRIDENT II (D5) MISSILE PRODUCTION & DEPLOYED SYSTEMS SUPPORT.
3/18/21	93.2	N00024-20-C-5601	EXERCISE OPTIONS FOR SUSTAINMENT OF THE LITTORAL COMBAT SHIP COMPONENT-BASED TOTAL SHIP SYSTEM - 21ST CENTURY PROGRAM & ASSOCIATED COMBAT SYSTEM ELEMENTS.
3/23/21	3693.2	HQ085621C0001	THE TOTAL VALUE OF THIS CONTRACT IS \$3,693,205,221 (BASE: \$2,447,168,225; OPTIONS: \$1,246,036,996) IF FUNDED THROUGH THE FULL BASE PERIOD. THE INITIAL PROGRAM FUNDING LIMITATION FOR BOTH CONTRACTS COMBINED IS \$1,600,000,000 THROUGH FISCAL 2022. IN ALIGNMENT WITH THE DEPARTMENT OF DEFENSE'S CURRENT MISSILE DEFENSE STRATEGY, LOCKHEED MARTIN CORP. WILL PERFORM TECHNOLOGY DEVELOPMENT & RISK REDUCTION OF THE NEXT GENERATION INTERCEPTOR (NGI) ALL-UP-ROUND CAPABLE OF SURVIVING NATURAL & HOSTILE ENVIRONMENTS WHILE COUNTERING EMERGING THREATS. ALLOWING A TECHNOLOGY DEVELOPMENT PHASE WILL HELP ENSURE THAT THE NGI IS AN EFFICIENT & EFFECTIVE PART OF AN INTEGRATED MISSILE DEFENSE SYSTEM SOLUTION BY PERMITTING THE DEPARTMENT TO FURTHER ANALYZE REQ & MAKE NECESSARY ADJUSTMENTS IN PREPARATION FOR THE PRODUCT DEVELOPMENT PHASE
3/24/21	34.7	N0002418C5218	EXERCISE AN OPTION FOR THE PROCUREMENT OF ENGINEERING SERVICES AS WELL AS PROVIDE FUNDING IN SUPPORT OF THE CONTINUED SQQ-89A(V)15 DEVELOPMENT, INTEGRATION, MANUFACTURE, PRODUCTION, AND TESTING.
3/24/21	19.3	N0003020C0023	PROVIDE THE UNITED KINGDOM (UK) WITH ENGINEERING & TECHNICAL SUPPORT SERVICES & DELIVERABLE MATERIALS FOR THE TRIDENT II FLEET BALLISTIC MISSILE SYSTEM.
3/24/21	20.9	N00024-19-D-6200	EXERCISE OPTIONS FOR THE PROCUREMENT OF SUBMARINE NEW CONSTRUCTION KITS, EQUIPMENT, AND INSTALLATION.
3/25/21	175.5	W31P4Q-19-C-0092	GUIDED MISSILE & LAUNCHING ASSEMBLY SERVICE LIFE EXTENSION PROGRAM MISSILES.
3/25/21	12.8	FA8650-19-C-9314	DEFENSE EXPERIMENTATION USING COMMERCIAL SPACE INTERNET (DEUCSI) CALL 002. THIS MODIFICATION IS TO EXERCISE OPTIONS 2, 3, AND 4 FOR HARDWARE & SOFTWARE INTEGRATION & ADDITIONAL FLIGHT TESTS. THIS MODIFICATION ALSO REVISES THE PREVIOUSLY EXERCISED OPTION 1, SPECIFICALLY IDENTIFYING THE F-35 AS THE REQUIRED AIRCRAFT FOR THE FIRST FLIGHT TEST.

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Date	Award (USD millions)	Contract #	Description
3/25/21	11.9	N0001902C3002	THIS MODIFICATION PROVIDES SUPPORT FOR IMPLEMENTATION, INTEGRATION, TESTING, AND ACCREDITATION OF THE F-35 IN-A-BOX MODEL, INCLUDING REQUIRED INTERFACES FOR USE IN THE JOINT SIMULATION ENVIRONMENT. THE SUPPORT FOR MODEL INTEGRATION IS REQUIRED TO FULFILL OPERATIONAL TEST & EVALUATION GOALS & OBJECTIVES TO VALIDATE F-35 BLOCK 3F CAPABILITIES FOR THE NAVY, MARINE CORPS & AIR FORCE.
3/26/21	2765.7	W31P4Q-21-D-0003	CONTRACT FOR GUIDED MULTIPLE LAUNCH ROCKET SYSTEMS (GMLRS) ALTERNATIVE WARHEAD ROCKET PODS, GMLRS UNITARY WARHEAD ROCKET PODS, LOW-COST REDUCED RANGE PRACTICE ROCKET PODS, CYBERSECURITY SERVICES, INTEGRATED PRODUCT SUPPORT & OTHER SERVICES.
3/26/21	8.4	FA8730-21-C-0022	CONTRACT FOR THE THREE-DIMENSIONAL EXPEDITIONARY LONG-RANGE RADAR RAPID PROTOTYPING PROGRAM. THIS CONTRACT PROVIDES FOR THE DEVELOPMENT OF AN INTERFACE TO THE U.S. AIR FORCE CONTROL & REPORTING CENTER'S TYQ-23A.
3/26/21	11.0	N0001920F0410	THIS MODIFICATION PROVIDES SUPPORT TO CONNECT CLASSIFIED NETWORKS, CREATE CLOUD BASED VIRTUAL TEST CAPABILITY, AND TRANSITION WORKLOADS FROM LOCKHEED MARTIN TO U.S. GOVERNMENT DEPOTS IN SUPPORT OF DEPOT STAND UP.
3/26/21	13.7	N0001912C0070	THIS MODIFICATION ADDS SCOPE IN SUPPORT OF SUSTAINMENT EFFORTS FOR FLIGHT TEST INSTRUMENTATION AIR SYSTEMS TO INCLUDE CUSTOMER UNIQUE REQ FOR THE F-35 LIGHTNING II JOINT STRIKE FIGHTER PROGRAM FOR FMS CUSTOMER.
3/26/21	26.8	N0001912C0070	THIS MODIFICATION INCREASES SCOPE TO PROVIDE SUPPORT FOR THE ENGINEERING TOOLS, DATA, AND RELATED TRAINING FOR THE SUSTAINMENT OF THE FLIGHT TEST INSTRUMENTATION AIR SYSTEM FOR ONE OF THE F-35 LIGHTNING II JOINT STRIKE FIGHTER FMS CUSTOMERS, AS WELL AS ADDITIONAL FMS CUSTOMER UNIQUE REQ.
3/26/21	35.9	N0001912C0070	THIS MODIFICATION INCREASES THE SCOPE FOR THE NETWORK INTERFACE UNIT GEN II SCOPE IN SUPPORT OF THE F-35 LIGHTNING II JOINT STRIKE FIGHTER PROGRAM FOR FMS CUSTOMERS.
3/29/21	67.4	N00024-13-C-5116	EXERCISE AN OPTION FOR THE ADVANCED ELECTRONIC GUIDANCE & INSTRUMENTATION SYSTEM (AEGIS) - COMBAT SYSTEM ENGINEERING AGENT EFFORTS FOR THE DESIGN, DEVELOPMENT, INTEGRATION, TEST, AND DELIVERY OF THE ADVANCED CAPABILITY BUILD 20.

**Lockheed Martin**

Date	Award (USD millions)	Contract #	Description
3/30/21	610.5	N00024-17-C-6259	FMS CASES TO THE KINGDOM OF SAUDI ARABIA (KSA). THE CONTRACT TYPE WILL BE A HYBRID FFP, CPIF, AND COST REIMBURSEMENT CONTRACT. UNDER THIS PHASE II CONTRACT, THE CONTRACTOR WILL PROVIDE CONTINUED EFFORTS INITIATED IN THE PREVIOUSLY AWARDED PHASE I CONTRACT (HQ0147-19-C-0007), AS WELL AS EFFORTS RELATED TO GROUND PRODUCTION, TRAINING, SPARES, SPARES CONSOLIDATION, SOFTWARE SUPPORT, FACILITY SUPPORT, ENGINEERING SERVICES, OBSOLESCENCE (POP-UP), CONTINENTAL & OUTSIDE THE CONTINENTAL U.S. SYSTEM INTEGRATION & CHECK-OUT, AND MAINTENANCE.
3/31/21	7.8	N0001920C0037	THIS MODIFICATION EXERCISES OPTIONS TO PROVIDE DEFICIENCY INVESTIGATIONS & CORRECTIONS TO THE FIELDED AUTONOMIC LOGISTICS INFORMATION SYSTEM (ALIS) DEVELOPMENT LABS & DEVELOPMENT OF CAPABILITIES TO BE ADDED TO THE ALIS IN SUPPORT OF THE F-35 JOINT STRIKE FIGHTER PROGRAM FOR THE NAVY, MARINE CORPS, AIR FORCE, AND NON-U.S. DEPARTMENT OF DEFENSE (DOD) PARTICIPANTS.
3/31/21	42.3	FA8810-13-C-0002	MODIFICATION TO CONTRACT FOR THE SPACE BASED INFRARED SYSTEM CONTRACTOR LOGISTICS SUPPORT TO EXTEND THE TERM OF THE CONTRACT.
4/1/24	128.4	N00024-20-C-5503	EXERCISE OPTIONS FOR FULL RATE PRODUCTION OF SURFACE ELECTRONIC WARFARE IMPROVEMENT PROGRAM (SEWIP) SLQ-32(V) 6.

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