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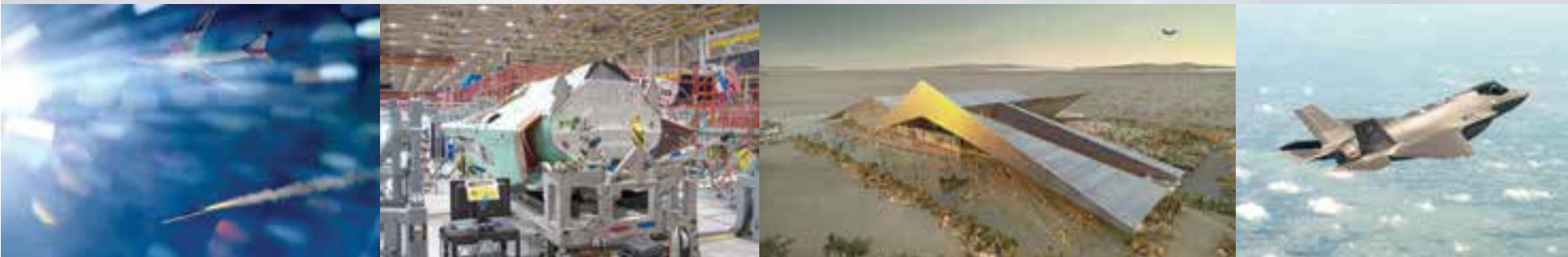


Journal of Aerospace, Defense Industry and Veteran News

and Review



Year In Review 2022



January 6, 2023 • Volume 37, Issue 23

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Jan. 13: Virgin Orbit successfully soars above the clouds

Virgin Orbit successfully deployed seven customer satellites onboard its LauncherOne rocket during the Above the Clouds mission. Cosmic Girl, Virgin Orbit's 747 carrier aircraft, took off from the Mojave Air and Space Port at 1:39 p.m., PST, and flew to the launch site over the Pacific Ocean, 50 miles south of the Channel Islands. After a smooth release from the aircraft, the LauncherOne rocket ignited and propelled itself towards space, ultimately deploying its payload into a precise target orbit approximately 500km above the Earth's surface at 45 degrees inclination. This is the first time that anyone has reached this orbit from the West Coast.



Jan. 16: Stratolaunch Roc carrier aircraft completes third flight test

Stratolaunch's Roc aircraft took off from the Mojave Air and Space Port at 8:47 a.m., PST, Jan. 16 and flew for four hours and 23 minutes over the Mojave Desert. It reached an altitude of 23,500 feet.



Feb. 1: MQ-4C Triton takes to the skies

A Northrop Grumman MQ-4C Triton takes to the skies over the California desert as the Triton low-rate initial production schedule progresses. Known as B8, this is the first production Triton to be upgraded to the multi-intelligence configuration to meet the Navy's critical maritime intelligence, surveillance, reconnaissance and targeting needs. B8 was delivered to Naval Air Station Patuxent River, Md., on Feb. 1.

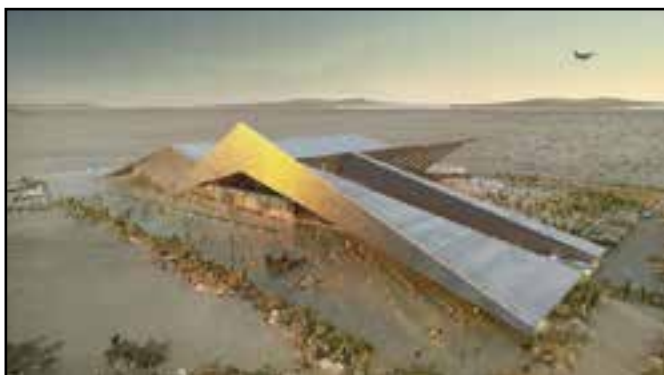


Feb. 14: Northrop Grumman delivers 900th F-35 center fuselage

Northrop Grumman marked the 900th center fuselage delivery on Feb. 14. Utilizing the company's Integrated Assembly Line in Palmdale, Calif., F-35 center fuselages are delivered across three unique aircraft variants. The IAL is a world-class production facility using the latest in automation and robotics to deliver on large aircraft production efforts at scale. Northrop Grumman is a principal partner to Lockheed Martin in the design, development, production and sustainment of this multirole fighter for the United States and its allies.

Feb. 15: Flight Test Museum releases conceptual artwork of new facility

The Flight Test Museum Foundation released the conceptual design for the museum planned for outside the West Gate at Edwards Air Force Base. The concept includes a 60,000-square-foot hangar and 15,000-square-foot of multifaceted space that includes a lounge, gallery space, classrooms, library and gift shop. Additionally, a bar named Pancho Barnes Happy Bottom Riding Club will pay homage to Pancho Barnes. The gallery space will house more than 80 historic aircraft, and provide views of the outdoor exhibits.



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Aerotech News and Review is published
the first Friday of the month, serving
the aerospace and defense
industry of Southern California,
Nevada and Arizona.

News and ad copy deadline is noon on
the Tuesday prior to publication. The
publisher assumes no responsibility
for error in ads other than space used.
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In this issue ...

In this special issue of *Aerotech News and Review*, we take a look back at 2022 and some of the newsworthy stories and events that made the headlines.

For up-to-date news and events, visit www.aerotechnews.com.



Feb. 16: F-35 ITF's Dual Capable Aircraft Team wins national aviation award

Representatives from the F-35 Integrated Test Force's Dual Aircraft Capable Team received the prestigious Col. Franklin C. Wolfe Weapons Systems Award during presentation ceremony at the Joint Program Office headquarters in Arlington, Va. Order of Daedalians Chairman of the Board Lt. Gen. (Ret.) Nicholas B. Kehoe presented the award along with Lt. Gen. Eric Fick, F35 Joint Program Executive Officer. Chief of Staff of the Air Force Gen. Charles "CQ" Brown Jr. selected the DCA team for their work in completing developmental testing of the F-35A to pair with the B61-12 nuclear gravity bomb. The F-35 ITF executed nine ground and 19 flight tests during the height of the COVID-19 pandemic in 2020, collecting 492 critical nuclear certification test points. The ITF's work during this time culminated a three-year, 87-flight, 198-flight-hour developmental test campaign one year ahead of schedule, Campbell added.



Feb. 23: AF chief of safety visits Edwards

Maj. Jacob Schonig, 416th Flight Test Squadron, F-16 Test Pilot, briefs Maj. Gen. Jeannie Leavitt, Department of the Air Force Chief of Safety, on the X-62A Variable In-flight Simulator Aircraft, at Edwards Air Force Base, Calif. Leavitt accompanied by Laura Macaluso, Director, Department of Defense Force Safety and Occupational Health, visited Edwards to gain a better understanding of the safety. Not only was Leavitt the first female Air Force fighter pilot (F-15E Strike Eagle), she also served as the commander of the 57th Wing at Nellis Air Force Base, Nev., the first woman in that role.



Feb. 24: Stratolaunch carrier aircraft completes fourth flight test

The Stratolaunch carrier aircraft, known as Roc, flew for 1 hour and 43 minutes on its fourth flight test. As part of this latest flight, pilots further prepared the carrier aircraft to support launches of its upcoming hypersonic testbed vehicle, Talon-A.

Feb. 18: Lockheed Martin Stalker VXE UAS completes world record 39-hour flight

Lockheed Martin Skunk Works® demonstrated the expanded endurance capabilities of a specially configured Lockheed Martin Stalker VXE unmanned aerial system through a world record endurance flight on Feb. 18, 2022, at the Santa Margarita Ranch, Calif. The flight establishes a new record in the Group 2 category with a flight time of 39 hours, 17 minutes and 7 seconds. The flight has been submitted to the Fédération Aéronautique Internationale, the world sanctioning body for aviation records, through its U.S. affiliate, the National Aeronautic Association, for certification.



Feb. 24: Russia invades Ukraine

On the morning of Feb. 24, Russian troops crossed the border into Ukraine in what Russian President Vladimir Putin is calling a 'special military operation.' The United States and its Western Allies immediately condemned the invasion and started providing aid – both financial and militarily. To date, the U.S. has provided \$66 billion to support Ukraine. As well as sending weapons systems to Ukraine, the U.S. military is also training Ukrainian armed forces.

March

March 10: Renowned test pilot Bob Cardenas dies

Famed test pilot, retired Brig. Gen. Robert "Bob" Cardenas has died in San Diego, California. He was 102. From June 1947 to July 1949, Cardenas was an experimental test pilot at Edwards Air Force Base and Wright-Patterson Air Force Base, Ohio, and was awarded the Air Medal with two oak leaf clusters for experimental flight tests at Edwards. Undoubtedly his most notable achievement was piloting the B-29 launch aircraft that released the X-1 experimental rocket plane in which Capt. Charles "Chuck" Yeager became the first human to fly faster than the speed of sound in 1947. Cardenas also aided in pioneering jet aircraft development by test flying the P-59 and XB-45 — the Air Force's first jet fighter and bomber. He was also the operations officer for testing of the YB-49 flying wing. Cardenas was the investigating officer after the YB-49 crashed killing Capt. Glenn Edwards and Maj. Daniel Forbes in 1948. Before becoming a test pilot, he served as a B-24 Liberator pilot in the European Theater of Operations during World War II with the 506th Bombardment Squadron. He was awarded the Air Medal and two oak leaf clusters for bombing missions before being shot down over Germany in March 1944. Despite head wounds from flak, he made his way back to Allied control. After returning to the United States in November 1944, Cardenas was then assigned to Wright Field, Ohio, as a test pilot where he attended Experimental Flight Test School.



March 15: New Civil Air Patrol flight takes off at Air Force Plant 42

A Civil Air Patrol flight was inaugurated at Air Force Plant 42 at Blackbird Airpark in Palmdale on March 15 to better serve residents of the Antelope Valley. Leaders from Plant 42, Edwards Air Force Base's 412th Test Wing and members of the Civil Air Patrol's Pancho Barnes Composite Squadron 49 came together at Blackbird Airpark to establish a new detachment flight. The event was the culmination of the coordinated efforts of state and local officials, Plant 42 Leadership, the Air Force Flight Test Museum and the Flight Test Museum Foundation, who together operate the airpark. The flight's historic location will provide classroom space to conduct meetings and educate cadets in the three core CAP missions – aerospace, cadet programs and emergency services.





April 18: KC-46A refuels first international aircraft
 In a major milestone for the KC-46A Pegasus program, the aircraft refueled Spanish EF-18 Hornets, known in Spain as C-15s during its first Employment Concept Exercise, or ECE 22-03, at Morón Air Base. The mission marked the first international receiver for the KC-46A, paving the way for stronger interoperability with allies and partners.

April 20: BAF tests C-130 electronic countermeasures
 An AC-130J Ghost Rider assigned to the 1st Special Operations Wing from Hurlburt Field, Fla., recently underwent electronic weapons countermeasures testing at the Benefield Anechoic Facility at Edwards Air Force Base, Calif. The C-130 family of aircraft covers a variety of missions including air mobility and close-air support. Due to its mission set, the C-130 employs a host of countermeasures to ensure mission success and crew survivability.



April 22: Air Mobility Command reopens Space-A travel
 All restrictions on Space-Available travel were lifted following restrictions put in place due to the COVID-19 pandemic. This reopening permits Space-A travel for uniformed service members, retirees, dependents and Reservists to travel within the continental United States and outside the continental United States, if space allows.

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May 4: Stratolaunch Carrier Aircraft completes fifth flight with new pylon

Taking off from the Mojave Air and Space Port, Stratolaunch's carrier aircraft completed its fifth flight test, this time with a new pylon attached. The aircraft flew for four hours and 58 minutes over the Mojave Desert, and reached an altitude of 22,500 feet. The flight debuted a new pylon on the aircraft's center wing that will be used to carry and release Talon-A hypersonic vehicles.



May 4: Edwards hosts 163rd Attack Wing MQ-9

The 163rd Attack Wing executed their first ever MQ-9 Agile Combat Employment to a Forward Operating Site, flying from March Air Reserve Base to Edwards Air Force Base, Calif. The groundbreaking sortie included the use of the MQ-9's Automatic Takeoff and Landing Capability and showcased the first employment of Multi-Capable Airmen to rapidly recover, refuel, and rearm the MQ-9 at the forward site with a manning and equipment footprint significantly smaller than a typical Launch and Recovery Element.



May 14: Air Force conducts successful hypersonic weapon test

A U.S. Air Force B-52H Stratofortress successfully released an AGM-183A Air-launched Rapid Response Weapon, or ARRW, off the Southern California coast. Following separation from the aircraft, the ARRW's booster ignited and burned for expected duration, achieving hypersonic speeds five times greater than the speed of sound. The 419th Flight Test Squadron and the Global Power Bomber Combined Test Force, or GPB CTF, both at Edwards Air Force Base, Calif., executed the test.



May 9: Edwards AFB hosts Italian Air Force flight tests

Members of the Italian Air Force, Aeronautica Militare, recently conducted flight tests with a PA-200 Tornado at Edwards Air Force Base, Calif. The Italian Air Force test team worked with Team Edwards to conduct test sorties to gather data on weapon pairing. Fitment tests ensure compatibility between the aircraft and the weapon and captures data points in various environments that the aircraft may experience.

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May (continued)



May 18: 412th TW vice commander completes 'fini flight'

Col. Randel Gordon, the 412th Test Wing Vice Commander, conducted his "fini-flight" (final flight at Edwards) yesterday, May 18, 2022. His wife, Tiffany, was on hand to marshal in his F-16D, while his friends and colleagues properly congratulated him by spraying him down.



May 22: Healing & Honor Field open to public

The Palmdale Healing and Honor Field opened to the public at Pelona Vista Park in Palmdale. The Field was open until Memorial Day on May 30. The 1,000 flags create a massive vista of red, white and blue that honor serve or have served in the U.S. military, law enforcement, fire/EMT or medical personnel.

June

June 9: Roc completes sixth flight test

Reaching an altitude of 15,000 feet, the flight focused on continuing Roc's flight envelope expansion with the recent addition of the pylon on the aircraft's center wing. The pylon, comprised of a mini-wing and adapter, will be used to safely carry and release reusable, rocket-powered Talon-A hypersonic vehicles.



June 16: Roc reaches new heights

Just seven days after its previous flight test, Stratolaunch's Roc carrier aircraft flew its seventh test flight reaching an altitude of 27,000 feet. The seventh flight focused on continuing Roc's flight envelope expansion with the recent addition of the pylon on the aircraft's center wing.



June 27: A-10 Thunderbolt IIs conduct ACE training on Rogers Dry Lake Bed

The 412th Operations Support Squadron hosted four A-10 Thunderbolt IIs from the 355th Wing out of Davis-Monthan Air Force Base, Ariz., to conduct ACE training.

June 27: Edwards AFB STEM completes PRIME algebra pilot test flight

Edwards Air Force Base STEM recently hosted 27 students in a first-ever pre-algebra summer program for local students at Blackbird Airpark in Palmdale, Calif. The program is called Promoting Relevance and Interest in Mathematic Experiences, or PRIME, and was designed to prepare students for high school Algebra.



June 23: Orange Flag executes largest all-domain test focused on infrared spectrum

Orange Flag, Air Force Test Center's all-domain, large-force test series focused on advanced technology, kill-web integration and analysis, returned for its second iteration this year at Edwards Air Force Base, Calif. June 23. Forty-one airborne participants used the R-2508 Range and Sea Test Range to execute simultaneous participant objectives, comprising 23 separate test events. AFTC's Multi-Domain Test Force led the effort to resource, organize, and align the Test Flag Enterprise, to include Orange Flag, Emerald Flag, and Black Flag. The Air Force, Navy, Marine Corps, Space Force and multiple civilian Research and Development agencies participated.



June 29: 412th Test Wing reactivates 445th Test Squadron

The 445th Test Squadron was reactivated during a ceremony at Edwards AFB. The squadron's primary mission will be the Joint Simulation Environment which will provide a state-of-the-art modeling and simulation environment to conduct fifth-generation and next-generation developmental test, operational test, and high-end advanced training and tactics development for the warfighter.



July 2: Virgin Orbit successfully launches 'Straight Up' mission

Virgin Orbit launched its fourth consecutive satellite launch mission. This launch, named Straight Up, carried seven satellites to Low Earth Orbit for the U.S. Space Force, who procured this launch for the Rocket Systems Launch Program, with payloads provided by the Department of Defense Space Test Program. Virgin Orbit's fully mobile LauncherOne system conducted its first ever evening flight from a bare concrete pad and a runway at the Mojave Air and Space Port in California. The launch began at 10:50 p.m. local time, July 1, and concluded with the successful deployment of all seven payloads on July 2.



July 19: 412th Test Wing kicks off 2022 MLB All-Star game with flyover

The 412th Test Wing launched an F-16 Fighting Falcon, F-22 Raptor and F-35 Lightning II from Edwards Air Force Base, Calif., to conduct a flyover during the 2022 MLB All-Star Game opening ceremony at Los Angeles Dodgers Stadium.



July 27: Edwards celebrates F-15s 50th anniversary

Airmen from across Edwards Air Force Base, Calif., celebrated the F-15 Eagle's 50th birthday with an F-15 from the NASA Armstrong Flight Research Center, July 27.

July 12: Air Force completes another successful hypersonic test

The Air Force conducted another successful hypersonic test off the Southern California coast. The Air-Launched Rapid Response Weapon Booster Test Flight-3 was the 12th flight for the program and third release demonstration. The AGM-183A weapons system reached hypersonic speeds and primary and secondary objectives were met. ARRW is designed to provide the ability to destroy high-value, time-sensitive targets. It will also expand precision-strike weapon systems' capabilities by enabling rapid response strikes against heavily defended land targets.



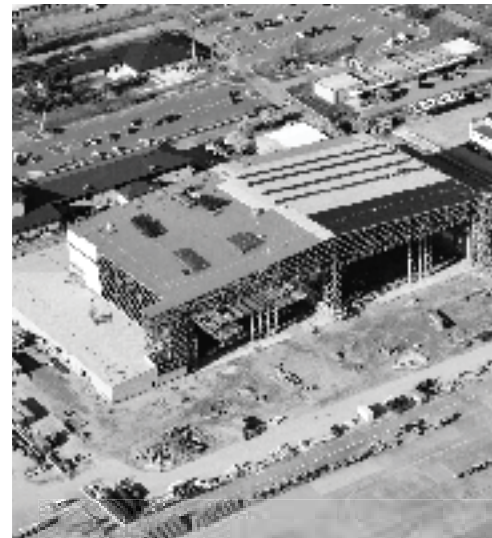
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Aug. 1: 461st Flight Test Squadron receives brand new F-35A

The newest F-35A, straight out of the factory, found its new home here at Edwards Air Force Base. The aircraft, Air Force serial number 338, is the first of six F-35s the 461st Flight Test Squadron and F-35 Lightning II Integrated Test Force will receive in the next few years. The upgraded fleet will be used to test the Technical Refresh 3 and Block 4 configurations of the Air Force's newest fighter that will create tactical and operational advantages over peer competitors. The 461st FLTS is the Department of Defense's lead developmental flight test unit for sensors, weapons, and software on all three variants of the F-35. The team has been behind every previous test project that has fielded new capabilities to operational F-35 units around the world.



Aug. 30: USAF Thunderbirds soar over Mojave

The skies over Mojave were filled with excitement as three of the U.S. Air Force Thunderbirds flew over from their home base in Arizona. Mojave Air and Space Port/ Rutan Field hosted the USAF's Thunderbirds' winter site selection team. The Thunderbirds' selection team needed to perform an aerial site survey, which included two TFRs: one from 11 a.m. to noon, and the second from 2:30-3:30 p.m. A TFR is a temporary Flight Restriction and are communicated to pilots through Notices to Air Missions (NOTAMs). They restrict aircraft (including drones) from operating without permission in a certain area for a limited time.

Aug. 23: Phase Two begins at the Flight Test Museum

Approximately 346,920 pounds of steel were delivered to the site of the future Air Force Flight Test Museum.



Sept. 14: NG unveils first Australian MQ-4C Triton

Northrop Grumman unveiled Australia's first MQ-4C Triton autonomous aircraft during a ceremony at its high-altitude, long-endurance (HALE) aircraft production site in California. The event, attended by Australian, U.S. government and defense officials, highlights the continued progress of the MQ-4C Triton program for both the Royal Australian Air Force and U.S. Navy.



Sept. 14: Orange Flag, TPS collaborate to test kill-web integration

Orange Flag, the Air Force Test Center's all-domain, large force test series focused on advanced technology, kill-web integration and analysis, returned with its third iteration in 2022 Edwards Air Force Base, Calif. This iteration was the first time in USAF Test Pilot School history where a student-led test project participated in the Large Force Test Event, which focused on streamlining kill-web integration.



Sept. 18: U.S. Air Force celebrates 75th anniversary

After a year-long commemoration, the U.S. Air Force celebrated its 75th anniversary. Edwards AFB marked the occasion during its annual Air Force Ball.

Sept. 29: SOFIA makes final flight before retirement



The Stratospheric Observatory for Infrared Astronomy made its final flight from NASA Armstrong's Bldg. 703 in Palmdale, Calif. SOFIA was a mission of discovery, revealing unseen — and sometimes unseeable — parts of our universe. On Dec. 13, the aircraft flew to Arizona and its new home at the Pima Air & Space Museum in Tucson.



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U.S. Air Force video by Adam Bowles

Oct. 3: 412th TW kicks off 49ers vs. Rams Monday Night Football

The 412th Test Wing launched 419th Flight Test Squadron's B-1B Lancer from Edwards Air Force Base to conduct a flyover during NFL Monday Night Football's San Francisco 49ers vs Los Angeles Rams game at Levi's Stadium, October 3.



Oct. 12: STEM outreach flyover gets kids excited for Aerospace Valley Air Show

In preparation for the 2022 Aerospace Valley Air Show, Open House and STEM Expo, the 412th TW Operations Group performed a STEM outreach flyover for 50 surrounding schools. The flyover included a C-17, F-35, T-38, and NASA F-18 that flew over a route spanning 250 miles, 14 different communities and reached more than 40,000 students. The flyover route reached the California communities of Edwards, Boron, Helendale, Victorville, Hesperia, El Mirage, Lake Los Angeles, Palmdale, Quartz Hill, Lancaster, Rosamond, Tehachapi, Mojave and California City with dedicated points at schools ranging from kindergarten to college. This was the first time an Air Force base conducted a flyover of this purpose and scope.



October: Stress testing Super Hornet's wings

Loads calibration testing on a U.S. Navy F/A-18E Super Hornet concluded at NASA's Armstrong Flight Research Center's Flight Loads Lab. Understanding what stress, or strain, an aircraft can endure is critical to carrying out its intended mission. To better understand the aircraft's capacity for strain, unique facilities can "load" the aircraft to specified stress points and document its performance. The calibration established the correlation between strain gauges installed on the test aircraft and forces experienced by the F/A-18E structure during flight. The aircraft was flown to NASA Armstrong from the Naval Air Systems Command (NAVAIR) Air Test and Evaluation Squadron VX-23 located in Patuxent River, Md. The NASA Armstrong team assisted in preparing this F/A-18E aircraft for its new role as the Navy's next loads test aircraft. The test data resulted in the development of loads equations that calculate real-time loads experienced during flight testing, which can be compared to established design limits to ensure safety of flight and crew. The aircraft can then be used to clear new structural modifications and payloads to the F/A-18E design limits.

Oct. 14-16: Edwards hosts first air show, open house in 13 years

More than 120,000 members of the public visited Edwards Air Force Base for the Aerospace Valley Open House, Air Show and STEM Expo. The weekend began Friday with the STEM Expo when thousands of students were bused to the base. Alongside the STEM exhibits, the children got to see the rehearsal air show. Then Saturday and Sunday, the crowds were wowed by performances by the USAF Thunderbirds Aerial Display Team, along with many aerial and static displays of iconic aircraft that have either been flight tested, or are currently being flight tested at Edwards.



Nov. 4: USAF TPS graduates Space Test Course 22-2

The USAF Test Pilot School graduated the next class of the Space Test Course at Edwards AFB. The mission of the Space Test Course is to produce adaptive, critical-thinking test professionals to conduct full-spectrum test and evaluation of space-domain systems. The curriculum is designed to provide students with tailored education covering test planning, test execution, analysis, and reporting.




Nov. 12: Boeing built X-37B completes sixth mission, sets new endurance record

The Boeing built X-37B Orbital Test Vehicle set a new endurance record after spending 908 days on orbit before landing at NASA's Kennedy Space Center in Florida. This surpasses its previous record of 780 days on-orbit. With the successful completion of its sixth mission the reusable spaceplane has now flown over 1.3 billion miles and spent a total of 3,774 days in space where it conducts experiments for government and industry partners with the ability to return them to Earth for evaluation. For the first time, the vehicle carried a service module to augment the number of payloads it can haul. The module separated from the OTV prior to de-orbiting ensuring a safe and successful landing.

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November (continued)



Nov. 16: NASA's Artemis mega rocket launches Orion to Moon

NASA's Space Launch System rocket carrying the uncrewed Orion spacecraft launches on the Artemis I flight test from Launch Complex 39B at NASA's Kennedy Space Center in Florida. NASA's Artemis I mission is the first integrated flight test of the agency's deep space exploration systems: the Orion spacecraft, Space Launch System rocket, and ground systems. SLS and Orion launched at 1:47am EST from Launch Pad 39B at the Kennedy Space Center. The launch is the first leg of a mission in which Orion is planned to travel approximately 40,000 miles beyond the Moon and return to Earth over the course of 25.5 days. Known as Artemis I, the mission is a critical part of NASA's Moon to Mars exploration approach, in which the agency explores for the benefit of humanity. It's an important test for the agency before flying astronauts on the Artemis II mission.



Nov. 30: New AF Plant 42 control tower dedicated

America's research and production center for cutting edge aerospace vehicles got the technological equivalent of a brain transplant the morning of Nov. 30, 2022, with a ceremony marking completion of a state-of-art, 160-foot control tower. Air Force Plant 42, birthplace of NASA space shuttle orbiters, air superiority fighters, spy planes that fly faster and higher than any foe, and bombers invisible to radar, had been nervously tending to the existing control tower installed in the mid-1950s and well beyond its life expectancy. A special guest taking part in the mid-morning dedication and ribbon-cutting for the \$17.9 million control tower was longest-serving Plant 42 administrative secretary Lorraine Saddler whose 40-year career began with the first Plant 42 commander and continued through 18 more until her retirement.



November: Jet engine installed on NASA's X-59

The F414-GE-100 engine was installed on NASA's X-59 Quiet Supersonic aircraft at the Lockheed Martin facility at Air Force Plant 42, Palmdale, Calif. After starting the year in Texas for structural tests, the X-59 program is making strides towards first flight in 2023. NASA's X-59 is the centerpiece of the agency's Quesst mission. The aircraft is designed to reduce the sound of sonic booms, which occur when an aircraft flies at supersonic speeds, to a quiet sonic "thump." This will be demonstrated when NASA flies the X-59 over communities around the U.S. starting in 2025, with the goal of providing the data necessary to open the future to commercial supersonic flight over land, greatly reducing flight times.

December



Dec. 2: B-21 Raider makes public debut

In a tangible display of the nation's resolve in meeting security threats, the U.S. Air Force, on Dec. 2, publicly unveiled the B-21 Raider, the first new, long-range strike bomber in a generation, and an aircraft specifically designed to be the multifunctional backbone of the modernized bomber fleet. While the B-21 isn't expected to be operational and introduced into service for several more years, the formal unveiling ceremony hosted by Northrop Grumman Corporation at its production facilities in California is a significant milestone in the Air Force's effort to modernize combat capabilities. The B-21 is designed to be a more capable and adaptable, state-of-the-art aircraft that will gradually replace aging B-1 Lancer and B-2 Spirit bombers now in service.



Dec. 6: MASP Board selects Tim Reid as spaceport General Manager/CEO

At the Dec. 6 Board meeting of the Mojave Air and Space Port, Tim Reid was selected to fill the position of General Manager/CEO. Reid had served as interim GM/CEO since August. Before coming to Mojave, Reid served as the deputy director of operations at Portland International Airport in Portland, Maine.



Dec. 11: NASA's Orion returns to Earth after historic Moon mission

NASA's Orion spacecraft splashed down in the Pacific Ocean, west of Baja California, at 9:40 a.m., PST, after a record-breaking mission, traveling more than 1.4 million miles on a path around the Moon and returning safely to Earth, completing the Artemis I flight test. Splashdown is the final milestone of the Artemis I mission that began with a successful liftoff of NASA's Space Launch System (SLS) rocket Nov. 16, from Launch Pad 39B at NASA's Kennedy Space Center in Florida. Over the course of 25.5 days, NASA tested Orion in the harsh environment of deep space before flying astronauts on Artemis II.



Dec. 5: Bradley Flick named NASA Armstrong director

NASA Administrator Bill Nelson named Bradley Flick director of the agency's Armstrong Flight Research Center in Edwards, Calif., effective immediately. Flick has served as the acting director of Armstrong since July. At Armstrong, Flick will oversee a center that continues to advance and secure America's leadership in aeronautics, Earth and space science, and aerospace technology that will revolutionize aviation, as well as the successful first flights of the agency's first all-electric experimental aircraft, and the quiet supersonic aircraft.

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NOTICE OF PUBLIC LIEN SALES
Business & Professional Code Section 21700-21707

Notice is hereby given by the undersigned that a public lien sale of the following described personal property will be held at the hours of **12 noon on the 18th day of January 2023** or thereafter. The auction is being held at www.selfstorageauction.com by competitive bid. The property is stored by **Nova Storage located 3305 E. Palmdale Blvd., Palmdale, CA 93550.**

The items to be sold are generally described as follows: Furniture, clothing, tools and or other household items stored by the following persons.

D172 Korp, Laura
E398 Payton, Florence
B054 Sprowson, Dorothy
E424 Brooks, Floyd
D142 Pratt, Emmanuel

Date: December 20th, 2022 Signed NOVA STORAGE

This notice is given in accordance with the provisions of section 21700 et seq. of Business & Professional Code of the State of California. The owner reserves the right to bid at the sale. All purchased goods are sold "As Is" and must be paid for and removed at the time of sale. Sales subject to prior cancellation in the event of settlement between owner & obligated party. Auctioneer: Nova Storage

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The items to be sold are generally described as follows: Furniture, clothing, tools and or other household items stored by the following persons.

0333 Jones, Eva Mae
0311 King, Charon
0579 Whitney, Christopher


Date: December 20th, 2022 Signed NOVA STORAGE

This notice is given in accordance with the provisions of section 21700 et seq. of Business & Professional Code of the State of California. The owner reserves the right to bid at the sale. All purchased goods are sold "As Is" and must be paid for and removed at the time of sale. Sales subject to prior cancellation in the event of settlement between owner & obligated party. Auctioneer: Nova Storage



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