

AEROTECH NEWS



Journal of Aerospace, Defense Industry and Veteran News

and Review



Year in Review 2023



January 12, 2024 • Volume 38, Issue 12

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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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Jan. 6: F-35 Conducts First Flight with TR-3



Lockheed Martin photograph

A developmental test team from the 461st Flight Test Squadron conducted the first flight of an F-35 in the Technology Refresh 3 (TR-3) configuration on January 6, at Edwards Air Force Base, Calif. Maj. Ryan "BOLO" Luersen, a U.S. Air Force experimental test pilot, piloted the mission in tail number AF-7, a specially instrumented flight test aircraft and the first with TR-3 upgrades installed. He executed a functional check flight (FCF) profile to verify aircraft airworthiness and system stability. The 50-minute flight, which took the jet to 35,000 feet at speeds just shy of the speed of sound above the Mojave Desert, marked the start of an extensive flight test campaign. Developmental and operational test flights will continue through 2023 to ensure safety and prove warfighting capabilities.

Jan. 20: 412th Test Wing helps celebrate first flights in the Aerospace Valley

The 412th Test Wing helped celebrate the first flights in the Antelope Valley with a dinner and consideration panel co-hosted by the West Coast section of the Society of Experimental Test Pilots in conjunction with the Society of Flight Test Engineers and the American Institute of Aeronautics and Astronautics, Jan. 20, 2023. The event was held at the John P. Eliopoulos Hellenic Center in Lancaster, Calif. According to the Society of Experimental Test Pilots' constitution, the goal is "to promote education of members, of those directly associated with aeronautical activities, and of the general public concerning those endeavors peculiar to the profession of the experimental test pilot." In this photograph, Dan Canin, Experimental Test Pilot, Lockheed Martin, Bob Hood, Retired Colonel USAF and test pilot at Northrop Grumman and Evan Thomas, Director of Flight Operations for Stratolaunch, LLC., take part in a panel discussion.



Air Force photograph by Adam Bowles

Jan. 26: Thunderbirds conduct winter training at Edwards Air Force Base



Air Force photograph by Tech. Sgt. Tabatha Arellano

U.S. Air Force F-16 Fighting Falcons, assigned to the Thunderbirds, fly over Edwards Air Force Base, Calif, Jan. 26, 2023. The Thunderbirds conducted part of their winter training at Edwards AFB, where new enlisted support teams perfected the ground show portion of the demonstration while the pilots perfected their roles in the air.

February

Feb. 15: Virgin Galactic's Mothership Eve took to the skies over the Mojave Air and Space Port after completion of upgrades.



Virgin Galactic's mothership Eve took to the skies to flight test after the completion of Eve's upgrades. According to an interview with Kelly Latimer, senior flight test director, the primary reason for flight testing is to inform their models. VSS Unity is ready to be reunited with Eve, and will head to New Mexico's Space Port America to continue testing the vessels together at a later date.

Feb. 23: SF, AF partner to establish new Space Test Course



Air Force photograph by Andy Morataya

The U.S. Air and Space Forces have partnered to create the new Space Test Course, which will instruct Guardians on test and evaluation processes, to conduct robust and methodical system testing on space-flight equipment at the Test Pilot School at Edwards Air Force Base, Calif. Space Force Vice Chief of Space Operations Gen. David D. Thompson and Air Force Vice Chief of Staff Gen. David W. Allvin signed a memorandum of agreement Feb. 23, establishing the new course. "Ensuring our Guardians can effectively test and validate space-flight equipment is crucial to mission success and protecting the space domain for the Joint Force," Thompson said.

Feb. 28: NASA's ER-2 completes snowstorm study support



NASA photograph by Carla Thomas

NASA's ER-2 high-altitude aircraft, based at NASA's Armstrong Flight Research Center in Palmdale, Calif., completed more than 30 flights in support of the Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Storms (IMPACTS) mission. The three-year campaign ended on Feb. 28, 2023. The IMPACTS team tracked snowstorms across the Eastern United States to investigate how they form and develop. Data collected from these flights will improve meteorological models and the ability to predict snowfall so that cities can better prepare for severe winter weather.

March

March 3: Edwards conducts low level flight survey through Southern California wilderness



Air Force photograph by Adam Bowles

One of the key roles for the 412th Test Wing is to manage the safe operation of the local airspace. With unique geological features and national parks within the Edwards Air Force Base airspace, this provides an irreplaceable national asset for weapons testing and military training. On March 3rd, a C-12 flight crew from the 412th Operations Group conducted a routine low level survey of the Sidewinder route through the Southern California wilderness. "An amazing thing about the C-12 fleet at Edwards Air Force Base, is that it's a jack of all trades," Col. Grant Mizell, Commander, 412th Operations Group explained. "It's a unique mission. This is the low level survey mission in the C-12 Huron. This is where we fly the C-12 in the low level routes down near 200 feet looking for obstacles that could obstruct all of the other aircraft that use that route for test purposes."

March 9: Food Network's Robert Irvine visits Edwards



Air Force photograph by Adam Bowles

March 13: Air Force conducts second ARRW test flight



Air Force photograph by Giancarlo Casem

A B-52H Stratofortress released the second All-Up-Round AGM-183A Air-launched Rapid Response Weapon off the southern California coast March 13, 2023. This test was the second launch of a full prototype operational hypersonic missile and focused on the ARRW's end-to-end performance. The test met several of the objectives and the ARRW team engineers and testers are collecting data for further analysis. The 412th Test Wing at Edwards AFB, Calif., executed the ARRW test flight. ARRW is designed to enable the U.S. to hold high-value, time-sensitive targets at risk in contested environments.

Robert Irvine, an English celebrity chef and talk show host, who has appeared on and hosted a variety of Food Network programs including "Restaurant Impossible", visited Edwards Air Force Base as a morale event for the installation, March 9. "It's really about saying thank you to the men and women and their families who defend our nation, no matter what branch they are in," Irvine said. The day included a book signing of Irvine's new book: "Overcoming Impossible" at the Edwards Exchange and a *Breaking Bread for Heroes* event where the whole installation was treated to a free delicious meal from the Robert Irvine Foundation. The day concluded with a "Conversation with Robert Irvine" event hosted by CMSgt. Denisha Ward-Swanigan, Command Chief Master Sergeant, 412th Test Wing where Irvine was able to speak to Edwards AFB personnel and answer questions about his foundation.

March (continued)

March 10: Edwards inspires the next generation at the Aerospace Valley Career Festival



Air Force photograph by Adam Bowles

The Antelope Valley High School District in conjunction with Edwards Air Force Base, NASA and Operating Location Air Force Plant 42 hosted the "Aerospace Valley Career Festival" which was a one-day cooperative effort among 19 high schools, major aerospace contractors, military recruiters, local business, civic groups, universities and colleges in the Aerospace Valley. The goal of this event was to highlight career pathways available in aerospace, military, government and STEM-related trades needed for the aerospace industry. "The Aerospace Valley Career Fair was formally known as a "Salute to Youth," James Papin, Edwards AFB Environmental Management explained. "There were thousands of students that came out to learn about careers in the aerospace industry."

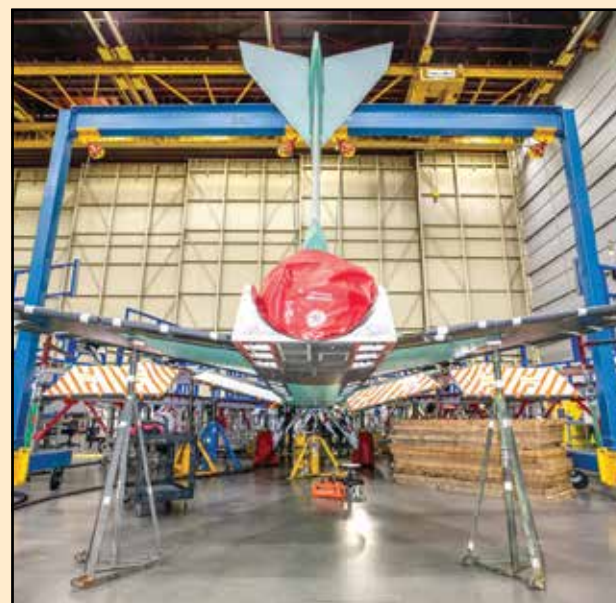
March 16: Virgin Orbit pausing operations, furloughs staff



Courtesy photograph

Virgin Orbit announced March 16, 2023, that it is pausing all operations. There are also reports that almost all staff have been furloughed without pay while the company seeks funding. On March 31, the company filed notice with the Securities and Exchange Commission that it was cutting 675 jobs — or 85 percent of its total workforce. On April 3, Virgin Orbit filed for Chapter 11 bankruptcy, and is looking sell off its assets.

March: X-59 Quesst gets its tail



NASA photograph by Garry Tice

NASA's X-59 has undergone final installation of its lower empennage, better known as the tail assembly. This series of images was taken at Lockheed Martin Skunk Works in Palmdale, Calif. This installation allows the team to continue final wiring and system checkouts on the aircraft as it prepares for integrated ground testing, which will include engine runs and taxi tests. Once complete, the X-59 aircraft is designed to demonstrate the ability to fly supersonic while reducing the loud sonic boom to a quiet sonic thump. This aircraft is the centerpiece of NASA's Quesst mission. The rollout is scheduled for Jan. 12, 2024.



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April 20: Air Force pilots reach new program milestones in electric vertical takeoff and landing aircraft



Courtesy photograph

Four Air Force pilots remotely flew a Joby electric vertical takeoff and landing (eVTOL) aircraft at the company's Marina, California, manufacturing facility April 20. They were the first Air Force personnel to assume remote pilot-in-command responsibilities and transition flight for the eVTOL, preparing the Air Force for delivery of aircraft to Edwards Air Force Base, Calif.

"This next step of getting Air Force pilots trained and operating Joby aircraft at an Air Force installation is an incredibly important milestone for the program, providing key insights to actual operations, maintenance information, and use case validation for Advanced Air Mobility aircraft," said Lt. Col. Tom Meagher, AFWERX Prime division chief. "Additionally, the Joby operations provide an outstanding opportunity for accelerated learning with the other Department of Defense services and government agencies, including NASA and the FAA."



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May

May 11: Edwards receives relocated KC-46s

The 412th Test Wing received 10 KC-46 Pegasus aerial refueling aircraft from the 22nd Air Refueling Wing, May 11. The aircraft were moved to Edwards due to a severe weather system scheduled to hit their home base. The 22nd ARW, based out of McConnell AFB, Kansas, relocated their fleet of aerial refueling tankers including the KC-46 and KC-135 Stratotanker out of state as a precaution due to projected severe thunderstorms, which have the potential for severe winds and the possibility of hail.



Air Force photograph by Giancarlo Casem

June

June 7: Airpower Foundations CTF ready for flight

A change of command, expanded mission and organizational structure change for the Emerging Technologies Combined Test Force occurred on Edwards AFB, Calif., June 7. Maj. Phillip Woodhull assumed command of the ET-CTF from Lt. Col. Adam Brooks, as the unit transitioned from a combined test force to an integrated test force under the newly established Airpower Foundations Combined Test Force.



Courtesy photograph

June 9: 452nd FTS bids farewell to RQ-4 Global Hawk



Air Force photograph by Giancarlo Casem

The 452nd Flight Test Squadron held a "sunsetting" event for the RQ-4 Global Hawk flight test program at Edwards AFB, Calif., June 9. The event marked the completion of the squadron's test campaign for the aircraft. "Today, we celebrate the heritage of the Air Force RQ-4 test program and we establish its legacy at Edwards Air Force Base," said Maj. Mark Johnson, 452nd FLTS, RQ-4 Test Team Lead. "We take time to remember the many sacrifices that were made and to consider the impact they are presently having on future test programs."

June 9: Edwards stands up Air Dominance CTF



Lockheed Martin photograph by Kyle Larson

Lt. Col. Michael Coleman formally assumed command of the 411th Flight Test Squadron from Lt. Col. David Schmitt, during a change of command ceremony on Edwards AFB, June 9. The transition showcased another milestone for Edwards AFB, Calif. The F-22 Raptor Combined Test Force has formally transitioned into the Air Dominance Combined Test Force and will be tasked with flight testing the Next Generation Air Dominance family of systems. While the Air Dominance CTF will continue to test enhancements for the F-22 to maintain lethality against immediate threats, work will also include planning and execution of integrated flight test campaigns for the NGAD Family of Systems.

June 23: NASA to close out X-57 Project



NASA photograph

NASA announced that the X-57 Maxwell all-electric aircraft project will conclude aircraft operational activities by the end of September, with documentation and close-out activities continuing for several months afterwards. The research from the X-57 provides aviation researchers with hundreds of lessons learned, as well as revolutionary development in areas ranging from battery technology to cruise motor control design. "NASA's goal is to drive innovation through groundbreaking research and technology development. The X-57 project team has done just that by providing foundational information to industry through lessons learned, and we're seeing the benefits borne out by American commercial aviation companies that are aiming to change the way we fly," said Brad Flick, director of NASA's Armstrong Flight Research Center in Edwards, Calif., where the X-57 aircraft was developed. "I'm incredibly proud of their tenacity and ingenuity as they led the way in advancing electrified propulsion. The future of electrified propulsion is possible because of their contributions." Finalizing aircraft operations by September 2023 will not incorporate first flight of the X-57 aircraft. The project encountered several challenges to safe flight, including mechanical issues late into its lifecycle and a lack of availability of critical components required to develop experimental hardware. Given the approaching planned end of aircraft operations, the timeline would not allow the team to reach acceptable flight conditions.

June 26: Universal Hydrogen lands at Mojave Air and Space Port for flight Test



Universal Hydrogen photograph

Universal Hydrogen successfully completed a ferry flight of its hydrogen fuel cell-powered turboprop aircraft to the Mojave Air & Space Port from Moses Lake, Wash., on June 26, 2023. The company plans to build a substantial presence in Mojave to continue its test flight efforts. "In our relentless pursuit to decarbonize aviation, moving our flight testing to Mojave brings us closer to our headquarters in Hawthorne, Calif., ensuring optimal coordination with the team," says Mark Cousin, CTO of Universal Hydrogen.

June 29: Virgin Galactic completes first commercial spaceflight



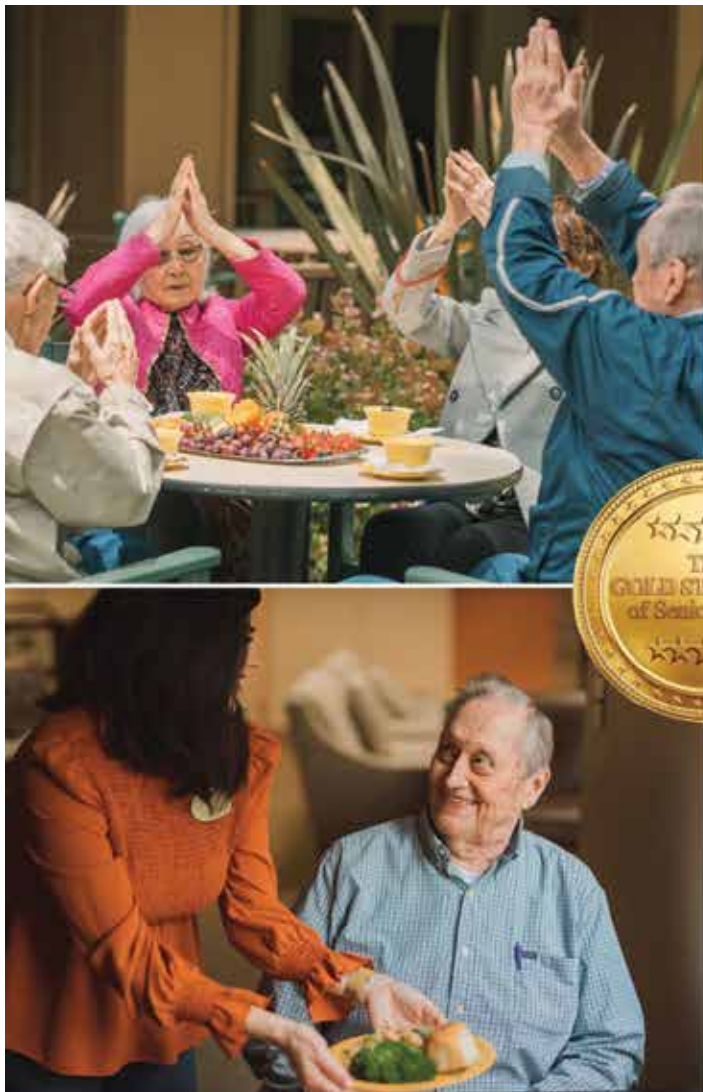
Virgin Galactic photograph

Virgin Galactic completed its first commercial space flight June 29, 2023, from its launch facility – Spaceport America in New Mexico. Galactic 01 took four passengers, and two crew members to suborbital space and back, as well as 13 research payloads. The flight took off at 7:30 a.m., PDT, reaching suborbital space about 58 minutes later. After a few minutes floating at an apogee of 52.9 miles, the spacecraft returned to Earth, landing at 8:42 a.m., PDT.

June 28: T-7A Red Hawk Soars with U.S. Air Force Test Pilot



Maj. Bryce Turner, a test pilot from the 416th Flight Test Squadron at Edwards AFB, Calif., has achieved a historic feat by becoming the first Air Force pilot to fly the T-7A Red Hawk. The aircraft lifted off at 11:51 a.m., CST, during a test flight at the Boeing aircraft delivery center in St. Louis, Mo. The T-7A is a brand-new, state-of-the-art pilot training system created specifically for the Air Force, with the purpose of training future fighter and bomber pilots. The aircraft is the first digitally designed tactical aircraft, finessed using model-based systems engineering and 3D design tools. The aircraft will replace the 1950s era T-38 Talon, providing the next generation of warfighters the training capability needed to face current and emerging threats. The T-7A is known as the "Red Hawk" as a homage to the iconic Tuskegee Airmen.



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July 9: Team Edwards conducts female flyover for National Women's Soccer



Air Force photograph by Adam Bowles

Team Edwards sent a female crew from the 412th Operations Group to conduct a special flyover for the National Women's Soccer League at PayPal Park, July 9 in San Jose, Calif. The flyover for Team USA's send off to the FIFA Women's World Cup was a special opportunity for training and to practice mission accuracy for the team. Hundreds of fans also got to chat and meet with male aviators and flight test engineers from the 412 OG that helped make the flyover possible. The team showcased STEM and our AR "Flight Test in 360" experience to young aviation enthusiasts. "I am incredibly proud of our all women flight team," said Col. Grant Mizell, Commander, 412th Operations Group. "We want to show that women are an amazing asset and incredibly important to the Air Force mission."

July 31: Edwards AFB recently hosted the USAFWS capstone



Air Force photograph by Richard Gonzalez

Dozens of combat aircraft assigned to the Weapons School at Nellis AFB, Nev., took part in the extensive training event. The Weapons School trains tactical experts and leaders to control and exploit air, space and cyber on behalf of the joint force. "We executed our capstone event for defensive counter air for Weapons School integration," said Tech. Sgt. Robert Medeiros, Manager of ACE & MAF Planning, USAF Weapons School said. "This involved over 60 aircraft. We are teaching our students defensive counter air, tactics, techniques and procedures to prepare them for great power competition and future fight." Aircrew, maintenance and logistics personnel came to Edwards from Nellis AFB as part of the Weapons School Capstone. F-22s, F-35s, F-15Es and F-16s were all a part of this advanced training event.

Aug. 9: B-2 capabilities enhance its digital comm



Northrop Grumman photograph

Northrop Grumman, in partnership with the U.S. Air Force, successfully completed an integrated airborne mission transfer demonstration with the B-2 Spirit at Whiteman Air Force Base, Mo., as part of the ongoing modernization efforts incorporating digital engineering. IAMT delivers an advanced capability that enables the B-2 to complete a digital, machine-to-machine transfer of new missions received in flight directly into the aircraft. IAMT is part of Northrop Grumman's B-2 Collaborative Combat Communication (B2C3) Spiral 1 program that digitally enhances the B-2's communications capabilities in today's battlespace.



Aug. 15: Boeing transports aircraft for conversion into NASA's new X-plane

NASA photograph by Carla Thomas

NASA's Sustainable Flight Demonstrator project hit a new milestone Aug. 15, when Boeing flew an MD-90 airplane from Victorville, Calif., to its facility in Palmdale, Calif., where conversion to the X-66A experimental aircraft will begin. Key modifications by Boeing to the MD-90 will include replacing its wings with a new pair that will be thinner and extra-long, stabilized by diagonal struts. The design concept, known as the Transonic Truss-Braced Wing configuration, promises to be more fuel efficient than today's best-in-class commercial aircraft.

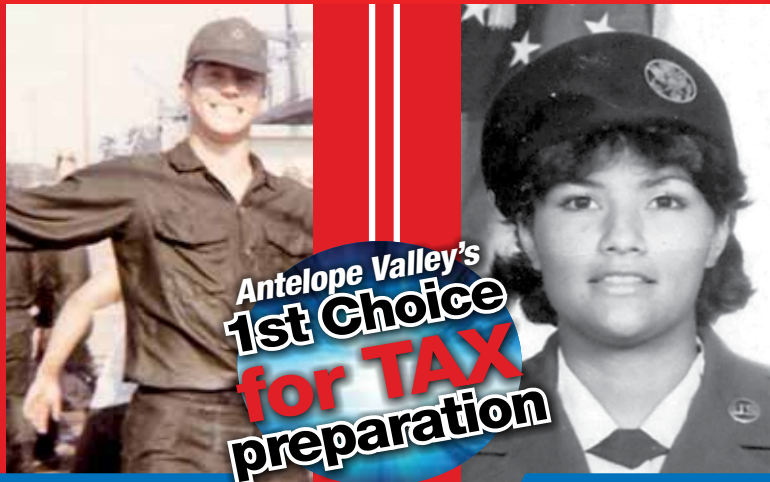


Aug. 18: 412th TW welcomes new commander

Left: Col. Douglas Wickert assumed command of the 412th Test Wing from Brig. Gen. Matthew Higer during a change of command ceremony at Edwards Air Force Base, Calif., Aug. 18. Maj. Gen. Evan Dertien, Air Force Test Center commander, officiated the ceremony at Hangar 1600 in front of family members, friends and members of Team Edwards. Dertien highlighted the Wing's accomplishments under Higer's leadership, especially during the COVID-19 pandemic. "Brig. Gen. Higer was one of the only wing commanders whose tour has spanned both the start of the pandemic and also the resolution of the pandemic," Dertien said. "When you combine that with the challenges of a no fail mission that the 412th Test Wing performs, to no surprise, Matt and the 412th Test Wing team delivered spectacular results during difficult times. We are excited to see what's next for Matt after his retirement later this year and a job well done." Wickert was most recently the Permanent Professor and Head of the Department of Aeronautics, Air Force Academy.

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Sept. 11: Edwards honors fallen during 9/11 Memorial Run, Walk, Ruck March



Air Force photograph by Giancarlo Casem

Team Edwards remembers the lives lost following the 9/11 terrorist attacks during the 9/11 Memorial Run, Walk, Ruck March event, Sept. 11, on Edwards Air Force Base, Calif.

Sept. 12: NASA supports dust sensor tests



NASA screenshot

A research team from the University of Central Florida recently tested an instrument designed to measure the size and speed of surface particles kicked up by the exhaust from a rocket-powered lander on the Moon or Mars. Supported by NASA's Flight Opportunities program, researchers evaluated the instrument in a series of flight tests on Astrobotic's Xodiac rocket-powered lander in Mojave, Calif. When spacecraft land on the Moon or Mars, the rocket exhaust plume creates regolith ejecta — abrasive dust and large particles moving at high speeds — that can damage the lander and surrounding structures.



Northrop Grumman photograph

Sept. 12: B-21 Raider continues progress

The U.S. Air Force announced the B-21 Raider has commenced engine runs as part of its ground test program at Northrop Grumman's Palmdale, Calif., facility. Engine testing is an essential milestone for the program as the world's first sixth-generation aircraft continues on the path to flight test. The B-21's first flight will remain a data driven event that is monitored by Northrop Grumman and the United States Air Force. Developed with the next generation of stealth technology, advanced networking capabilities and open systems architecture, the B-21 Raider will serve as the backbone of America's bomber fleet.

Sept. 25: Test Force takes delivery of first eVTOL aircraft



Air Force photograph by Harlan Huntington

Joby Aviation, Inc. officially delivered its first experimental electric vertical take-off and landing aircraft to the Air Force during a ceremony held at Edwards Air Force Base, Calif., Sept. 25. The ceremony showcased the unique multi-party collaboration between private industry, AFWERX, the 412th Test Wing and NASA's Armstrong Flight Research Center. The Emerging Technologies Integrated Test Force, part of the recently structured Airpower Foundations Combined Test Force, is the lead element tasked with testing and evaluating the technology for future national defense applications. The ET-ITF will work alongside a team from Joby Aviation as part of a unique collaboration between private industry and the Air Force.

Sept. 26: Universal Hydrogen takes to the skies



Universal Hydrogen's "Lightning McClean" took to the skies over the Mojave Air and Space Port marking the start of a two-year test flight campaign. Their first goal is to optimize performance of the hydrogen powered fuel cell powertrain. Secondly, they will introduce UH's patented modular liquid hydrogen fuel storage system. Additionally, they will be commencing the certification testing for FAA-mandated airworthiness and safety requirements.

Sept. 26: LM conducts first flight in U-2 avionics test refresh



Lockheed Martin photograph

Lockheed Martin Skunk Works, in partnership with the U.S. Air Force, completed the first flight of the U-2 Dragon Lady's Avionics Tech Refresh program. The successful first flight tested the new advanced capabilities aboard the U-2 as part of the ATR contract. During this mission the aircraft successfully performed a low-altitude functional check flight to integrate new avionics, cabling and software.

Sept. 28: Edwards hosts hypersonic weapon familiarization



Air Force photograph by Lindsey Iniguez

Operational crews from B-1 Lancer, B-2 Spirit, B-52 Stratofortress, and F-15E Strike Eagle units across Air Force Global Strike Command and Air Combat Command participated in hypersonic weapon familiarization training at Edwards Air Force Base, Calif., Sept. 28. The participating crews received expert academics and training on hypersonic fundamentals and participated in tactical discussion on hypersonic operations to increase operational readiness and prepare multiple Air Force aircraft communities for hypersonics including the Hypersonic Attack Cruise Missile, Air-launched Rapid Response Weapon, and other programs under development.

Oct. 29: EOD Airmen train at Fort Irwin's National Training Center



Air Force photograph by Chloe Bonaccorsi

In a unique inter-service collaboration, the Explosive Ordnance Disposal flight from the 812th Civil Engineer Squadron recently teamed up with the Army's C Company, 2916th Aviation Battalion, "Desert Dustoff," for an intensive series of training exercises at the National Training Center at Fort Irwin, Calif. The objective was to put the EOD team through physically and mentally demanding scenarios, including one they call "team leader down," where team members had to apply Tactical Combat Casualty Care to an injured leader. What set this exercise apart were the real-world elements integrated into the training. The team had the opportunity to communicate directly and interact with helicopter pilots during landing — all without any simulation.

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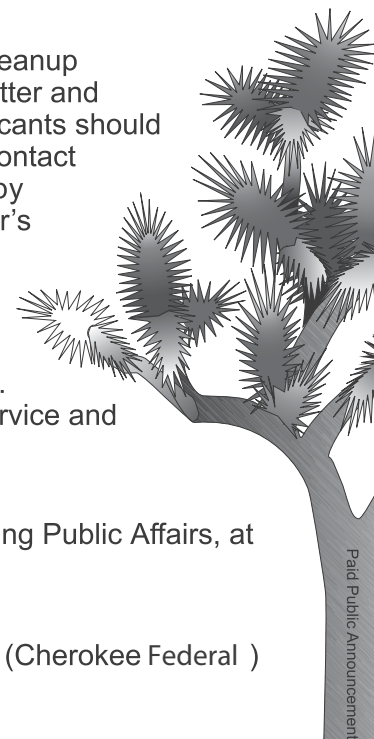
Applications

Applications are available by contacting Gary Hatch, 412th Test Wing Public Affairs, at (661) 277-8707 or by e-mailing 412tw.rab@us.af.mil.

Applications will be accepted until the positions are filled.

For additional information, contact Gary Hatch or Belinda Martinez (Cherokee Federal) by e-mailing 412tw.rab@us.af.mil.

Air Force Civil Engineer Center, Installation Support Section, Edwards Air Force Base, California



Paid Public Announcement

November

Nov. 8: T-7A Red Hawk arrival at Edwards reflects team effort

The first Boeing T-7A Red Hawk successfully arrived at Edwards Air Force Base, Calif., Nov. 8, 2023. This milestone formally commences the Air Force's developmental flight test campaign for the aircraft, aimed at fielding a replacement pilot training capability for the 1960s-era Northrop T-38 Talon. The aircraft, known as APT-2, is the first production representative jet off the assembly line and was piloted by a joint U.S. Air Force and Boeing aircrew. The journey to Edwards included stops at Vance AFB, Okla., Kirtland AFB, N.M., and Luke AFB, Ariz. "This arrival marks an exciting transition into the next phase of developmental flight" noted Maj. Jonathan Aronoff, T-7A test pilot. "The T-7A gives immense capability updates that will allow the Air Force to train the next generation of combat aviators. Success of first delivery is truly a testament to the joint Air Force-industry team we have in place," added Aronoff.



Air Force photograph by Bryce Bennett

Nov. 10: Northrop Grumman's B-21 Raider makes first flight

The Northrop Grumman-built B-21 Raider made its first flight from Air Force Plant 42 in Palmdale, Calif., Nov. 10, 2023. Neither the Air Force nor Northrop Grumman made any prior announcements about the flight, but the aircraft was spotted in the skies of Southern California's Antelope Valley, home to the Northrop Grumman facility that is designing and building the United States' newest bomber, and Edwards Air Force Base where the bomber will be tested.



Courtesy photograph

Nov. 11: USA vs. Canada hockey



Air Force photograph

As part of a special Veterans Day themed game, 412th Test Wing Airman Alexis Correa was selected to perform the ceremonial puck drop at the start of the USA vs. Canada women's hockey game. Correa serves as part of the 412th Test Wing Security Forces Squadron. She was joined along with Master Sgt. Iris Bias and her first shirt, Master Sgt. Katherine Lamm.

December



Courtesy photograph

Dec. 5: Spirit of Mojave arrives

The newest member of the Stratolaunch Fleet arrived at its home location in Mojave, Calif. Spirit of Mojave as it is called was named by the Stratolaunch Team as a tribute to the passion of the Mojave aerospace community that has built and tested some of the world's most unique aircraft. The Spirit of Mojave symbolizes expanded capability and reach to execute our hypersonic test mission. The aircraft will spend a small amount of time on the ground to receive modifications for its new mission and is expected to be operational in the first half of 2024.

Dec. 28: USSF launches 7th X-37B mission

The U.S. Space Force, in partnership with SpaceX, successfully launched USSF-52 on a Falcon Heavy rocket at 8:07 p.m. Eastern Time, Dec. 28, 2023, from Kennedy Space Center Launch Complex 39A. The SpaceX rocket carried into orbit an X-37B Orbital Test Vehicle, marking the seventh space flight for the X-37B program and its first launch on a Falcon Heavy. The X-37B tests include operating in new orbital regimes, experimenting with space domain awareness technologies and investigating radiation effects to NASA materials.



Space Force photograph

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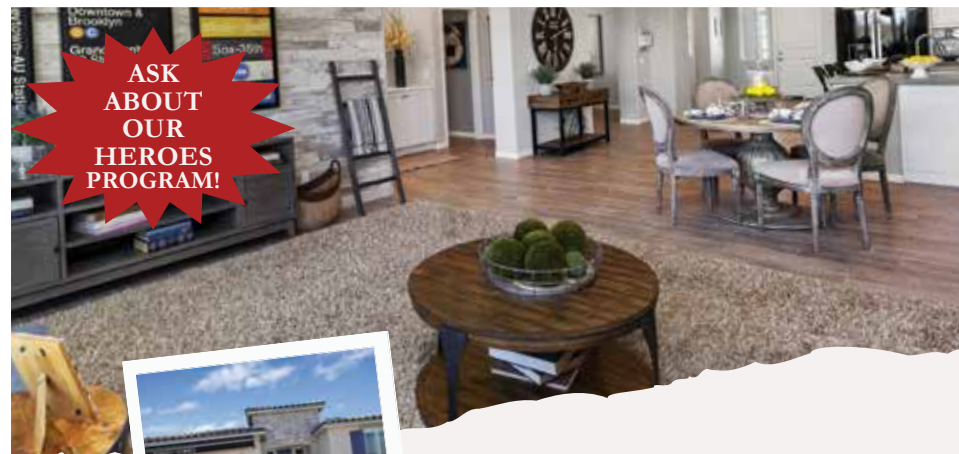


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**NOTICE OF PUBLIC LIEN SALES
Business & Professional Code Section 21700-21707**

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 17th day of January 2024** or thereafter. The auction is being held at www.selfstorageauction.com by competitive bid. The property is stored by **Nova Storage located 7349 Suva St, Downey CA 90240**

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

- 3216 Franco, Sylvia
- 6430 Mendez, Jim
- 1241 Garcia, José
- 6143 Aceves, Viridiana
- 6426 Godinez, Maria Elena
- 4092 Judge, Fuller
- 1212 Merritt, DeJon
- 3144 Martinez, Rosemary
- 3063 Martinez, Charlie
- 4050 Perez, Aaron
- 6055 Perez, Jose
- 2002 Cadena Chavez, Alejandr
- 2002 Garcia, Carmen
- 6021 Votava, Elizabeth

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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.

- N09 Hernandez Cervantes, Helen
- W11 Montenegro Gonzalez, Jonathan Santiago
- A15 Rodarte, Carly
- J25 Smith, Sanquina
- N26 Jones, Shapale

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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.

- H214 Medina, Jaime
- F760 Arzate Jr., Ricardo
- B137 Garnica Perez, Alina
- C342 Solis Campos, Ivan
- D393 Montes, Heydi C
- C314 Mayorga, Ariel
- C318 Otero, Nidia
- C317 Hernandez, Luis
- C311 Graham, Dawn
- C319 Hernandez, Luis
- F743B Otero, Nidia
- C288 Guzman, Alvaro

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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.

- 0486B Ponce, Geraldine
- 0392B Garcia, Yesenia
- 0470A Velasquez, Pablo
- 0585 Lugo, Brandon
- 0426 Ashley, Aliya
- 2261 Cortez, Debra
- 0145 Williams, Robert
- 0154 Aguirre, Shannon

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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.

- 0729 Cardenas Ramirez, Karla
- 0078 Lipkin, Jan
- 0152 Small-Tolbert, Dorothy
- 3115 Moreno, Kimberly
- 0088 Garcia, Richard
- 3005 Yeloyan, Artur

Date: December 29, 2023 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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NOTICE OF PUBLIC LIEN SALES
Business & Professional Code Section 21700-21707
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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.

0074 Mcelroy, Dana
 0268 DuBroc, Jon
 0498 Rueda, Liz
 0430 Scheller, Stacey
 0359 Bartlett, Harry
 0579 Whitney, Christopher
 0265 Crumb, Amy
 0417 Cheek, Michael
 0302 Polk, Montrose
 0559 Crumb, Amy
 0568 Urlanda JR., Rodolfo C.
 0574 Siebenhoven, H. Von
 0611 Crumb, Amy
 0557 Crumb, Amy

Date: December 29, 2023 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.

E445 Trammell, Joseph
 F519 Torres, Andy
 G586 Duran, Tracy
 G576 Hidalgo, Flor
 C117 Rocca, Andrea

Date: December 29, 2023 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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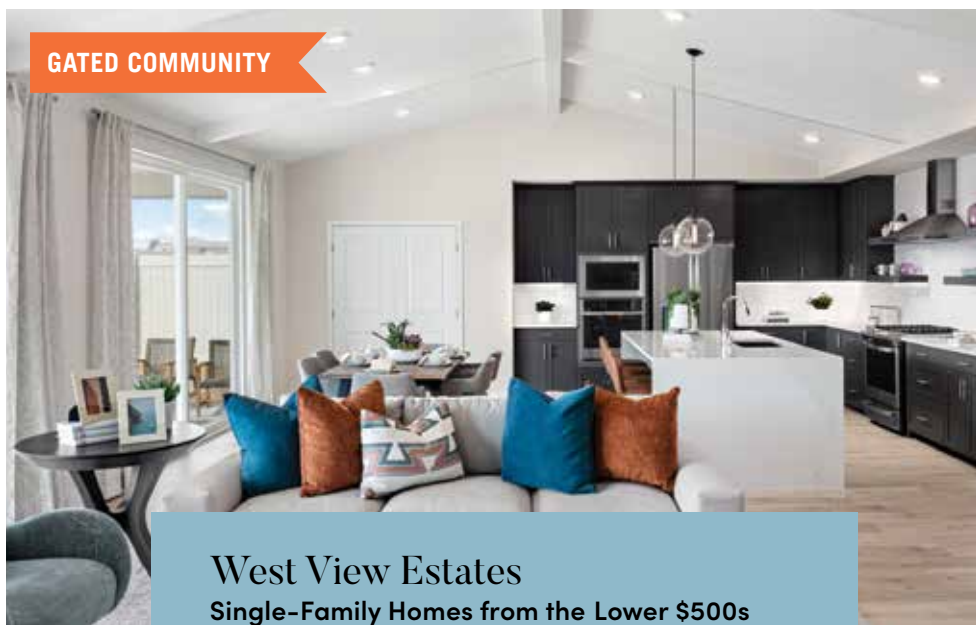


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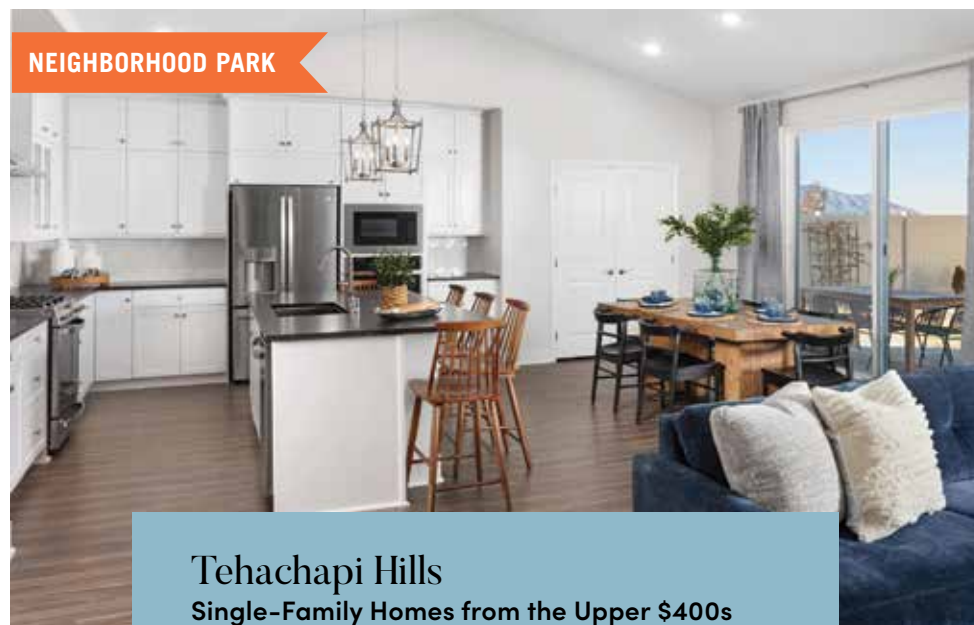
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