AEDC is ‘a key testing resource’ for GE Aviation

Altitude performance and operability testing of the General Electric Passport 20 engine, used in the Bombardier Global 7000 and 8000 business jets, was recently completed in an engine test cell at AEDC. “GE needs AEDC’s altitude cell capability to perform various simulated tests to validate our designs and ultimately meet our customer requirements,” said Ben Frisby, Passport 20 evaluation and test program leader for GE Aviation. “AEDC delivers a controlled testing environment for extreme engine operation scenarios that would otherwise require flight testing. There is no other facility with the capability we needed to complete the required testing for Passport 20.”

According to Frisby, the testing was successful and “helped drive improvements into the engine.”

Melissa Tate, AEDC test manager with the Aeronautical Ground Test Branch, said she and her test team were thankful for the opportunity to help meet the testing needs of GE Aviation. “We appreciate the efforts of everyone involved in this test to ensure a successful outcome,” she said.

Frisby commented that it’s anticipated that GE Aviation will partner with AEDC again for future testing. “GE will continue to use AEDC based on engine application and development needs,” he said. “It is a key testing resource for our engine development.”

He added that GE engine is designed to operate durably and efficiently across a wide range of altitudes that only AEDC test cells can provide.

The Passport 20 was also tested previously at AEDC during the winter of 2013 to 2014.

By Deidre Ortiz
AEDC Public Affairs
NEW PARTNERS from page 1

The squadron’s capability to achieve speed, agility, and situational awareness through hypersonic velocities. Potentially, we will see full-scale aircraft be towed at realistic flight velocities that will be fully staffed for test planning, management, engineering, analysis, hardware test data, and build-up andakedown.

Operated by the 64th TS, the 4460th is the world’s premier rocket sled testing operation. The full scale operation of the 64th TS is a plan for the continuous development in a classical rocket sled test environment critical weapon systems. This continuous support of the warfighter, combined with technical excellence, costeffectiveness and safety.

At 59.037 feet, the HS-1 is the longest sled of its type in the world. Each of the three rails of the frame work that is normally welded, in tension at temperatures below 120 degrees Fahrenheit and aligned to within 0.10 inches in the operational region of the sled. The HS-1 serves as a critical link between laboratory-type test facilities and full-scale rocket sled tests by simulating the ground environment and operational facts in rocket sled test environments unaltered, and instrumental and condensed, often before flight?

Vehicle kills (cables) are accelerated to measured speeds; thus, the HS-1 rocket sled, moments, frequently in multi-stage operation. When the HS-1 hits the ground at 4,000 feet per second, it travels at a speed of 1,200 mph and the past and the 64th TS has improved our capability to improve program to achieve speeds in excess of 1,200 mph in support of. In support of future customer needs, a variety of configurations weighing up to 60,000 pounds and heavier sleds can be operated if required. Development of the instantaneous accelerations, the results are being tested. It is a testament to the importance of the HSSTT complex environment.

Complementing the Test Track itself, the overall HSSTT complex encompasses sufficient facilities for artificial rain simulation testing, its remote surveillance equipment, targets and corner blocks. The full test and the 11 HSSTT complex eXperimental Facilities (X-Facilities) provide items such as inlet, exhaust ducts, rotating columns, and exhaust ducts, rotating tables, the rotating mass, and output from the appropriate sized control surfaces. These columns are then attached to the appropriate sized turntable. Cursors, manifolds, and individual test cells are located with a variety of electronics mounted in a mission of AEDC. They are part of the 704th Test Group Operating Location-AA.

The 704th TSG also operates the 704th Test Group Operating Location-AA test facility, known as Operating Location (OL)-AC or OL-AC test technician, observes control room and provides items such as inlet, exhaust ducts, rotating tables, the rotating mass, and output from the appropriate sized control surfaces. These columns are then attached to the appropriate sized turntable. Cursors, manifolds, and individual test cells are located with a variety of electronics mounted in a mission of AEDC. They are part of the 704th Test Group Operating Location-AA.

The LGTF supports Air Force aircraft inven-

dated the DOD's only true multi-range (“D-12”) instrumentation for a variety of configurations for support of test. Targets are compiled in the North Range, comprised of Pit 5, 6, and 9 Pit 2 in the West Range. In ad-

4. Electronic Cigarettes are not allowed in DTA. Smokeless tobacco use will be permitted in all DTA facilities, with the exception of tobacco use in DTA. Some electronic cigarettes will be prohibited in all DTA facilities, with the exception of tobacco use in DTA. Some electronic cigarettes will be prohibited in all DTA facilities, with the exception of tobacco use in DTA.

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NAS focusing on safety in the New Year

Safety Condition Campaign kick-off for 2017

By Deidre Ortiz
AEDC Public Affairs

NAS Tunnel 9 and NFAC team members donate to United Way

National Aerospace Solutions employees Steve Taylor, left, and Carol Paschall, right, at the Hypervelocity Wind Tunnel 9 in White Oak, Maryland, present a check for $2,000 from NAS to the United Way of the National Capital Area representative Levina Kim Dec. 13. NAS conducted the United Nations campaign at its three operating locations in Tennessee, California and Maryland. (U.S. Air Force photo/J. Spicerman)

The purpose of the Safety Condition Campaign is to mathematically identify and correct conditions that present a compliance challenge with the safety-related requirements,” he said. Nagrant explained that at the beginning of each month, for 12 months, SHE will provide a bulletin indicating the safety condition and the key things to look for. Each organization will form a team, or teams, within the work group to assess the safety condition in their area.

“The teams will then identify issues in their assigned work area related to the specific safety condition and report the findings to the area supervisor so that they can take the steps necessary to alleviate any issues,” he added.

NAS Deputy General Manager Doug Pearson mentioned another reason for the focus on safety is because “safety is a core value of NAS. We view safety as a key and fundamental part of our normal disciplined approach to problem solving and accomplishing work,” he said. “We are using the first work day of each month as a means of setting our expectations and emphasizing the importance of integrating safety into all that we do on the job, at home and in the community.”

Pearson added that the campaign will last a year as a team sport and is not a one-time event. “The NAS leadership team will continue to emphasize the importance of knowing and understanding safety standards, application of established processes and continual improvement in our performance,” he said. “Stay tuned for more information about our monthly Safety Condition Campaign on varying important topics to keep us focused on safety. Safety is good business, produces a positive work environment, and ultimately sustains a healthy work force. Seek to learn more from one another and contribute what you know every day.”

Marilyn Graves, PMI Chattanooga 2016 Project Manager of the Year

Marilyn Graves, PMI Chattanooga 2016 Project Manager of the Year joined PMI in 2011 and has been an active member in the Southern Middle Tennessee Chapter since it was established.

Monthly NAS Safety Condition Campaign Topics

January – Fall Protection
February – Barricades and Signs
March – Hazardous Energy Control, Lockout
April – Confined Space Entry
May – Electrical Hot Work
June – Lifting and Rigging
July – Excavation and Trenching
August – Scaffolding
September – Elevated Work Platforms
October – Hazardous Chemicals
November – Explosives Safety
December – Defeating Safety Devices

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Dan Haden, lead outside machinist at AEDC, helps prep the Rolls-Royce Trent 7000 engine for testing in the C-2 engine test cell. The engine will be used in the new Airbus A33neo. Jit Sahota, engine management engineer for Rolls-Royce Trent 1000 and 7000 projects, said testing at AEDC was conducted to affirm the combined capabilities that Roll-Royce was striving for in this engine and it was achieved. (U.S. Air Force Photo/Jacqueline Cowan)

An F-35 Lightning II assigned to the 61st Fighter Squadron at Luke Air Force Base, Ariz., takes off as the sun sets. Corrosion testing of the F135 engine, the afterburning turbofan developed for the F-35 Lighting II, was conducted at AEDC to see how it performs in the corrosive sea-air environment. (U.S. Air Force photo/Staff Sgt. Staci Miller)

The AEDC arc heater undergoes significant upgrades in support of advanced hypersonic systems. This photo depicts upgrades conducted for the H2 test cell. In addition to the heater upgrade and other improvements, a new coat of paint was applied to the test cell. (AEDC photos)

The AEDC Propulsion Wind Tunnel facility received new enclosures to house the updated data acquisition and control systems. The updates allowed for increased reliability and improved data rates as well as system controls. Pictured are Barry McCann, ATA Test Article Control System engineer, and Dale Schultz, ATA instrument technician, checking out the Cart Test Article Controls for the High Angle Automated System. (U.S. Air Force photo/Jacqueline Cowan)

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As part of an improvement project for the AEDC Propulsion Wind Tunnel, a new M4 motor stator was installed in the main drive. The function of the stator is to rotate the main compressors for the PWT 16-foot transonic and 16-foot supersonic wind tunnels. Pictured here are AEDC Propulsion Wind Tunnel craftsmen working to thread the stator. (AEDC photo)

The AEDC Aeropropulsion Ground Test team, who performed engine tests on the Pratt & Whitney F135 engine, like the engine shown here, received an Air Force Materiel Command Test and Evaluation Award. The award recognizes a team for superior test and evaluation achievements and contributions within AFMC. The engine is shown in the Engine Test Facility Sea Level test cell in 2014. (U.S. Air Force photo/Rick Goodfriend)

AEDC electrical engineers Tony Acklen and Howard Frederick review the Mid-Pressure Arc Heater project plans for adding electrical loads to an existing Ple-num Evacuation System substation transformer at AEDC. Their study during the Mid-Pressure Arc Heater (MPAH) upgrade project led to a cost savings of approximately $2 million for AEDC. The MPAH project is a Central Test and Evaluation Investment effort to upgrade the materials test capability of the H2 Arc Heater Altitude Test Cell at the Complex. (U.S. Air Force Photo/Rick Goodfriend)

A group of AEDC software engineers, pictured here, assisted in improving the Computer Assisted Dynamic Data Monitoring and Analysis System and Propulsion Data Processing and Analysis System to benefit operations of future turbine test projects. Some of the engineers involved in this effort were, left to right, Stephen Powell, Michael Walker, Nathan Harrison, Rusty Zarecor and Phil Voyles. The changes will benefit aeropropulsion test cells at the Complex by increasing the speed in which the Air Force and AEDC test customers receive dynamic data. (U.S. Air Force photo/Jacqueline Cowan)

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AEDC 2016 Year in Review

TESTS AND SUPPORT...

Mike Smith, AEDC optical diagnostic physicist, verifies the Coherent Anti-Stokes Raman Spectroscopy system is functioning properly prior to conducting tests in support of risk reduction for a new test capability that will increase Mach number of AEDC Hypervelocity Wind Tunnel 9 at White Oak, Md. The capability involves increasing the Mach number from Mach 14 to Mach 18. (U.S. Air Force photo/A.J. Spicer)

AEDC instrumentation engineer Dan Pruyn works on the Tiltrotor Test Rig in preparation for a test in the 40-foot by-80-foot wind tunnel at the National Full-Scale Aerodynamics Complex, the AEDC wind tunnel testing site located in Califorlnia. The test of the TTR was a project sponsored by the National Aeronautics and Space Administration. TTR is a horizontal axis rig and rotates on the test section turntable to face the rotor into the wind at high speed, or fly edge-wise at low speed (100 knots), or at any angle in between. It is designed to accommodate a variety of rotors. (U.S. Air Force photo/Jeffrey Johnson)

The TF33 Pratt & Whitney engine underwent testing in an AEDC sea level test cell, to verify and validate newly redesigned components of the engine. The TF33 has powered several different military airframes, including the Boeing KC-135 Stratotanker, E-3 Sentry Airborne Warning and Control System and the E-8 Joint Surveillance Target Attack Radar System. (U.S. Air Force photo/Rick Goodfriend)

The Air Force approved an Organizational Change Request to realign selected Air Force Test Center operations and facilities from several separate locations under one commander at AEDC. This change consolidated the current capabilities of the AEDC; the Hypersonic Combined Test Force, which was part of the 412th Test Wing at Edwards AFB, California; and all the previous capabilities of the 96th Test Group, headquartered at Holloman AFB, New Mexico, renamed the 76th Test Group; and the McKinley Climatic Laboratory at Eglin AFB, Florida. The F-35 shown in this photo endures freezing temperatures in the AEDC McKinley Climatic Laboratory Jan. 27, 2015. The joint strike fighter has undergone four months of climate testing in the lab to certify the fleet to deploy to any corner of the world. (U.S. Air Force photo/Samuel King Jr.)
AEDC 2016 Year in Review

SPECIAL EVENTS...

Maj. Gen. David Harris, commander of the Air Force Test Center (left), presents the Air Force Organization Excellence Award for 2015 for the exceptionally meritorious service performed at AEDC from June 1, 2013, to May 31, 2015, to AEDC Commander Col. Rodney Todaro. (U.S. Air Force photo/Holly Fowler)

OBXtek, Inc. Program Manager Theresa Cates (right) and ATA General Manager Steve Pearson signed the ATA/OBXtek, Inc. Associate Contractor Agreement on Jan. 29, at AEDC. The agreement outlined how ATA and OBXtek will coordinate work activities. OBXtek was awarded the Base Communications and Information Technology Services (BCITS) contract for Arnold Air Force Base June 19. OBXtek began contracting operations on Feb. 1 which include performing base communication and information technology services at Arnold Air Force Base and its two geographically separated units in Maryland and California. (U.S. Air Force photo/Jacqueline Cowan)

Students Colleen Wainright, Brooke Sanders and Kinsey York watch as the AEDC Science, Technology, Engineering and Mathematics Center 3D printer works to create an object layer by layer at Westwood Middle School, Manchester, Jan. 12. The printer, initially obtained through an Innovation Grant for a project at AEDC, was donated to the AEDC STEM Program. (U.S. Air Force photo/Jere Matty)

AEDC White Oak Site Director Dan Marren talks about Hypervelocity Wind Tunnel 9 and AEDC with stakeholders from the American Institute of Aeronautics and Astronautics Ground Test Technical Committee during a site visit. GTTC guests, in town for the Aviation 2016 Forum in Washington, D.C., were invited to tour the AEDC White Oak Maryland site. (U.S. Air Force photo/Robert W. Mitchell)

Morgan Murphree (right), with U.S. Army Corps of Engineers at Redstone Arsenal, AEDC Commander Col. Rodney Todaro (center) and Kurt Gates, with CAPE Environmental Management, Inc., broke ground Feb. 18 for the construction of a new Ground Vehicle Fueling Facility at AEDC. The facility is located adjacent to the bulk fuel farm. (U.S. Air Force photo/Robert W. Mitchell)

OBXtek, Inc. Program Manager Theresa Cates (right) and ATA General Manager Steve Pearson signed the ATA/OBXtek, Inc. Associate Contractor Agreement on Jan. 29, at AEDC. The agreement outlined how ATA and OBXtek will coordinate work activities. OBXtek was awarded the Base Communications and Information Technology Services (BCITS) contract for Arnold Air Force Base June 19. OBXtek began contracting operations on Feb. 1 which include performing base communication and information technology services at Arnold Air Force Base and its two geographically separated units in Maryland and California. (U.S. Air Force photo/Jacqueline Cowan)

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AEDC 2016 Year in Review

SPECIAL EVENTS...

Robert Lindeman
AEDC Lifetime Achievement Fellow

Dr. Rob McAmis
AEDC Fellow

Tom Best
AEDC Fellow

Claude Morse
AEDC Lifetime Achievement Fellow

Col. Rodney Todaro, AEDC commander, announced four past and present personnel as AEDC Fellows, recognizing their accomplishments to the Complex. Tom Best and Dr. Rob McAmis were inducted as AEDC Fellows, and Robert Lindeman and Claude Morse were inducted as AEDC Lifetime Achievement Fellows. They were recognized at the annual AEDC Fellows Banquet at the Arnold Lakeside Center on June 24.

(AEDC photos)

National Aerospace Solutions, LLC, was selected as the new contractor to oversee the Test Operations and Sustainment (TOS) contract that began July 1 at Arnold Engineering Development Complex. Pictured left to right is Mike Lugo, National Aerospace Solutions Business Services director; Doug Pearson, NAS deputy general manager; Jeff McBride, NAS Base Operations and Support director; Cynthia Rivera, NAS general manager; Tom Currie, NAS Mission Execution director; Woodrow Whitlow, NAS technical director; and Ben Souther, NAS Integrated Resources director. (Courtesy photo/Bob Pullen)

Col. Rodney Todaro, center, observes while Col. Andrew L. Allen, fourth from right, the 704th Test Group commander reveals the 704th Test Group guidon during a re-designation ceremony Dec. 6 at Holloman Air Force Base, New Mexico. The Test Group was previously the 96th Test Group under the 96th Test Wing. Also pictured left to right is flag bearer Master Sgt. Marc Berger, 96th Test Wing Commander Brig. Gen. Christopher Azzena and flag bearer Senior Master Sgt. Ian Hall. (U.S. Air Force photo/Robert W. Mitchell)
Paul Chadwick
45 Years, NAS

Kelly Hollowell
35 Years, NAS

James Rags, NAS
Richard Schleicher, AF
Donald Wilt, NAS

RETIREMENTS
Ted Boswell, NAS
Harry Buckner, NAS
William Jumpry, NAS
Joel Marsfeld, NAS
Denis Nixbelt, NAS
James Osborne, NAS
Terry Riddle, NAS
Patricia Winters, NAS

NEW HIRES
Jory Boudreaux, AF
Jackson Chandler, NAS
Terry Clark, NAS
Mitchell Howard, NAS
Adam Fout, AF
Misty Lane, AF

CERTIFICATES
Darrell Day, AF
received a Master of Divinity degree with a concentration in Church Renewal

Bryce Hoefler, ASO
received a Certificate for Mobile Crane and Basic Rigging Inspector Training

From left, Master Sgt. Jason Kanipe and Senior Master Sgt. Charles Hoyt, members of the Air Force Sergeants Association at AEDC, prepare Toys for Tots donations for transport to the Tullahoma Fire Department Dec. 15, 2016. The toys were donated by team members at AEDC. Donations are provided to youth in the Tullahoma area. (U.S. Air Force photo/Jacqueline Cowan)

Local students participate in FIRST® LEGO® League Regional Qualifier Tournament

Sean O’Gorman and Jamison Norton (left to right at table), on the LegoTronics team from East Middle School, Tullahoma, prepare their team’s robot to complete a FIRST® LEGO® League (FLL) mission. Twenty-seven teams gathered at Tullahoma High School Dec. 17 to compete in the FLL Regional Qualifier Tournament. The tournament was sponsored in part by the AEDC STEM Center. (U.S. Air Force photo/Holly Peterson)
January 9, 2017

**Friday's at Arnold Lakeside Center...**

- **1** Happy New Year!!!
- **8** Martin Luther King Jr. Day
  - Barber Shop & Coffee 100 Closed 8am-4pm
- **12** January 9, 2017
  - Cafe 100 National Chicken Day Special $7
    - Fried Chicken, 20.50 lb
    - Free Family Movie Night
  - Dine at the ALC 5 pm
- **19** Stork PG 6-6:30 PM @ ALC
  - Brushes & Bottles
  - Arnold Lakeside Center 6PM
  - Register by Jan. 13
  - Call 931-544-3320
  - $10 per person
  - Dine at the ALC 5 pm
- **22** Cafe 100 Celebrates National PB Day!
  - Get a free cookie
  - with lunch combo
- **25** Family Game Night
- **30** Cafe 100 Celebrates National Corn Chip Day; Get a Free Chili Pie for only $3

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**Do you have New Year’s fitness goals?**

The Fitness Center can help you achieve your goals for free! Call us at 931-544-3320 to register.

- **ALC—Arnold Lakeside Center, 454-3350**
  - Cafe: 110, A8E, 454-5865
  - CORRITT—Outdoor Recreation, 454-6094
  - RRP—Recycling, 454-6068
  - Marketing/Sponsorship—454-3428
  - Barber Shop—454-6087

- **GC—Arnold Golf Course, 454-GOLF**
  - MG—Multigym’s Grill, 454-FOOD
  - FC—Fitness Center, 454-6440
  - WI—Wingo’s Inn, Lodging, 454-3051
  - Resource Management—454-7425
  - Admin—454-7779