Craft crew helps with weather encounter capability testing

By Bradley Hicks

The crew at the AEDC Hypervelocity Ballistic Range are supporting efforts to improve a long-standing “weather encounter” capability by making sure all the elements are in place for upcoming tests.

During these tests, projectiles at high velocities will pass through simulated weather as they travel down the range. Afterwards, the impact of these weather conditions on the projectiles will be assessed.

The range Craft crew is responsible for the construction of the mechanisms that will create the weather conditions necessary for the tests. According to Car- son McAfee, a craft supervisor for the Test Operations and Sustainment con- tract at Arnold AFB, the craftsmen have proven more than capable.

“This is a great crew,” McAfee said. “They work well together, they work hard, and they know what they’re doing.”

TOS Test Operations Engineer Mark Brown said the weather conditions to be manufactured for the tests are rain, snow and ice crystals, and other weather ef- fects. A different system is needed to create each type of weather condition, and each system must be carefully installed along the range, which is elevated within a large tank running the length of the facility.

Brown said engineers at the range are working with the Craft crew to design and build improved versions of these weather simulation systems. The engi- neers are receiving input from the crafts- men on their ideas and taking recommen- dations on ways to improve the designs to make the devices more effective.

“It’s very common for them to come up with good suggestions,” Brown said. “We’ll have a drawing and they’ll sug- gest ways to improve its fabrication.”

“You can give them an idea and they can run with it and create some things that you maybe didn’t even think about,” McAfee added. “They’re very capable.”

While no weather encounter testing has been performed with the new sys- tems, Brown said some of the hardware used to create the weather conditions has been completed and installed above the unintended path of the projectile.

A single “rain dripper” station has been constructed and partially installed.

Arnold Air Force Base to reap benefits of $19.7 million energy savings award

By Kazi Mamun

Arnold National Energy Efficiency Manager

NORESCO, one of the 16 Super Energy Savings Performance Contrac- tors, received the $19.7 million energy savings performance contract (ESPC) award to work at Arnold Air Force Base through the Air Force Civil Engineering Center and Defense Logistics Agency.

The scope of services under the con- tract is for NORESCO to provide the upfront capital financing through Han- son and Armstrong, a national leader in energy contracts at a moderate cost, to perform an investment grade audit in various Arnold facilities to assess current energy consumption baselines on various energy end uses. This will include assessing lighting and lighting controls, energy management control systems, and steam pipe systems, as well as installing new energy conservation measures, or ECMs, such as retrofits and new additions, and measuring new con- sumption to verify demand and energy savings from its pre-installation energy baselines.

The project at Arnold AFB will make significant contributions toward support- ing the AEDC mission and advance the base’s goals toward reducing energy use and intensity and help support Air Force Energy priorities to improve en- ergy efficiency, reduce demand and foster a culture of energy awareness.

Three energy conservation measures are identified. The contract price in- cludes turnkey installation by internal NORESCO staff, including its special- ized design group dedicated to the de- sign and implementation of energy solu- tions and qualified subcontractors to staff, labor. Through tailored commissioning, training, and operations, maintenance, repair, and replacement plans, the com- pany will ensure that the implementa- tion of these ECMs does not increase the burden on the Arnold AFB maintenance team.

The three energy conservation mea- sures identified were: 1. ECM-01: Light- ing Upgrades; 2. ECM-02: Direct Digit- al Control System (DDC) Upgrades, and 3. ECM-03: Steam System Insulation.

ECM-01 Benefits

- Provides new fixtures, lamps, and ballasts in 69 buildings and select street and parking lot areas
- Provides high-efficiency LED technol- ogy throughout the site
- Street and parking lot fixture up- grades improve safety and security
- New life components greatly re- duce ongoing maintenance cost and

ECM-02 Benefits

- Provides for new SmartStructure

A representative with NORESCO, a Super Energy Savings Performance con- tractor, walks through one of the facilities at Arnold Air Force Base to look at lighting and other areas where energy savings might occur. NORESCO rec- ently received a $19.7 million energy savings performance contract award to perform work at Arnold through the Air Force Civil Engineering Center and De- fense Logistics Agency. Pictured in back is Reggie Floyd, Energy and Utility Program Manager, and Kazi Mamun, Arnold Resource Efficiency Manager. (U.S. Air Force photo by Bradley Hicks)

In This Issue...

Col. Roberts puts his past experience to use as AEDC Test Support Division Chief

Arnold AFB Emergency Management Servic- es conduct HH-47 familiarization training

By Bradley Hicks

2016 AFB Award Finalist

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ECM-01 Benefits

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- Provides high-efficiency LED technology throughout the site
- Street and parking lot fixture upgrades improve safety and security
- New life components greatly reduce ongoing maintenance cost and

ECM-02 Benefits

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Col. Roberts puts his past experience to use as AEDC Test Support Division Chief

By Deidre Ortiz

AEDC PUBLIC AFFAIRS

Having previously served as the Commander of the Air Base Group at Los Angeles Air Force Base, Col. Charles Roberts is comfortable in his new role as AEDC Test Support Division Chief.

"Los Angeles Air Force Base had nearly 4,500 personnel, and having been the installation command- er, I feel that I have a lot of insight to this position and it fields really nicely into what I’m doing here," Roberts said.

As Test Support Division Chief, Roberts will oversee the organization providing medical, civil engi- neering, communications, chap- laincy, security, logistics, readiness and quality-of-life services at Ar- nold Air Force Base.

"It’s kind of like being the city manager but for a military base," he said. "My duties are to manage the support functions for the Com- mander so that he can focus on the mission."

When asked about what goals or changes he has to make, Roberts explained he isn’t coming into the position with any preconceptions.

"I am going to take the first few months here to put eyes on the place and get acclimated," he said. "My goal is ultimately to provide support to AEDC employees, civilians and also the contractors and try to make their lives better as possible.

"From what I’ve seen so far, we’re already doing an awesome job and it’s amazing all we do here."

He added that he wasn’t pre- visually aware of the entire scope of AEDC and how the work here plays into the broader Air Force mission.

"A lot of stuff the Air Force was doing in L.A. is a byproduct of the Test and Evaluation going on here at Arnold, and I didn’t put that to- gether until coming here and now I see how critical it is to the aero- space industry and the Air Force," he said.

Roberts joined the Air Force in June 1984, after graduating from the U.S. Air Force Academy with a Bachelor of Science degree in civil engineering; he also has a Master of Science degree in Engineering and Environmental Management from the Air Force Institute of Technology.

His Air Force background is broad, serving as maintenance engineer, design engineer, readiness engineer, and deputy engineering flight commander in various CONUS and overseas assignments. He has served two MAJCOM tours, an Air Staff tour and commanded two squadrons.

"Really, my entire experi- ence includes a deployment to Saudi Arabia, two to Iraq, and one to Afghanistan."

Having most recently stationed in L.A. prior to coming to Arnold, Roberts welcomes the opportunity to once again be in the southeastern region of the U.S. "It’s good being back in the

Smokeying Smoking Policy

1. The following revised AEDC smoking policy is effective immediately and applies to all employees on the AEDC installation.

2. Tobacco products (e.g., cigs and pipes) shall be permitted at a designated smoking area that is separate from an office, training, work area or public area.

3. Tobacco use on the AEDC ABG Ground Campus is permitted, but discouraged based on the health hazards of tobacco use and second-hand smoke. Tobacco is permitted within 50 feet of self-service fueling stations.

4. Smoking in government-owned/leased vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time; however, at no time will personnel discard cigarette butts outside their vehicle.

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Core Values

• Integrity first
• Service before self
• Excellence in all we do

Vision

NAS will not be engaged in human experimentation and will ensure that all human subjects are protected; as well as all individuals, protect the environment, promote the public’s safety, and conserve national resources.

Values

• Stewardship
• Professionalism
• Accountability
• Respect

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6. Electronic Cigarettes are considered to be equivalent to tobacco products; however, e-cigs are not restricted to DCTs and are allowed to be used outdoors at a minimum distance of 25 feet from building entrances.

Col. Scott C Bain AEDC Commander

Trade promoted to lieutenant colonel

Lt. Col. David Garay, left, congratulates Eric Trad on his promotion to lieutenant colonel during Trad’s promotion ceremony July 31 at the Engine Test Facility west level test cell. Trad is assigned to the Test Operations Division. (U.S. Air Force photo by Rick Goodfriend)

Col. Scott C Bain, AEDC Commander

Life "It's good being back in the

Col. Charles Roberts, AEDC Test Support Division Chief (U.S. Air Force photo by Deidre Ortiz)

Action Line

Team AEDC

In accordance with the Tuition Assistance Program, which is a tuition assistance program funded by the Department of Defense, our team AEDC employs, and that's why we have the Action Line available.

People can use the Action Line to clear up rumors, ask questions, suggest ideas on improvements, enter complaints or get other issues off their chests.

They can access the Action Line via the AEDC Intranet homepage and by calling 454-6990.

Although the Action Line is always available, the best and fastest way to get things resolved is by using your chain of command or by contacting the organization directly involved.

I encourage everyone to go that route first, then if the situation isn't made right, give us a chance."

Col. Scott C Bain, AEDC Commander

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Col. Scott C Bain, AEDC Commander
As 11 a.m. approached on a day some time in the mak- ing, the small group that had gathered in the Main Auditorium was about to be treated to an unusual service...
This unit, which creates the rain effect by simulating the action on the runway system design from the 1970s but modified for modern requirements, is capable of controlling to create effects ranging from light mist to streams. The unit is capable of producing rain effects for various types of weather encounters. These effects are generated from light mist to streams. No one from page 1

**AWARD from page 3**

- Replaces obsolete controllers with latest technology
- Provides ongoing support for firmware/software updates
- Provides quarterly trend reviews to ensure the system is optimized for operation and associated savings

**ECM-03 Benefits**

- Provides cost savings on currently unmaintained fittings and steam traps
- Eliminates costly foot loss from unmaintained fittings and steam traps
- Applies high-quality, long-lasting insulation to minimize maintenance requirements
- Improves equipment reliability

Although these ECMs may appear basic, they impact key operational capabilities throughout the site’s numerous facilities. ECMs address fundamental infrastructure issues and can improve performance, help meet the goal of mission assurance through energy assurance. ECMs address fundamental infrastructure issues and can improve performance, help meet the goal of mission assurance through energy assurance. ECMs also provide an opportunity to reduce the CO2-related emissions associated with energy usage by optimizing and controlling the use of energy. ECMs also provide an opportunity to reduce the CO2-related emissions associated with energy usage by optimizing and controlling the use of energy.

**CRAZY DAISIES from page 3**

The office reached out to both businesses.

“While services have increased through the years, we have not increased the price of a cup of coffee. The price of coffee has not increased,” said Arnold McAfee, aiano, who said there has been a high demand for customer service. He said that in-house.

“We have made the addition of a second cashier, the hotline and sand and steam traps, and we have more than 7,000 sites throughout the U.S. and worldwide.”

The piecemeal weather tests serve to confirm the effectiveness of the test. “It’s just like a wind tunnel,” said an analyst, now involved in wind tunnel testing. “We put the fit and finish in place, the weather test is set to begin at the end of this week, and we’ll see how the crew has performed in the future.”

Brown said the ability to simulate the actual conditions that can be found on the weather test is crucial to the test. “We have already performed with only one checkout remaining. We will continue on Friday to see if we can get the test completed before 5 p.m.”

On one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year. At the end of that period, both the Arnold Services Office for a period of one-year.
services provider is also known for verifying energy savings according to ac
or gas supply
extensive experience in project
implementation, commissioning, opera
tions and maintenance to deliver cus
deliver performance with payback.
OSHA violations on a
project in the past five years and a com
pany insurance experience
rate of 0.45, the company is ranked
among its competitors in winning
year, 4-month financing term.
NORESCO customers include fed
eral government agencies,
commercial businesses.
energy savings at more than 7,000
throughout the U.S. and worldwide.

Gene Klingensmith, center, picks up his order from the Crazy Daisies food truck. Klingensmith was among those
visited the food truck during its first day of operations at Arnold Air Force Base.
(U.S. Air Force photo by Bradley
By Secretary of the Air Force Public Affairs


This draft request for proposal is the first step in working with industry to determine the Light Attack Aircraft offering that is desired in December 2018. Air Force acquisition officials indicated there are items that still need to be finalized prior to release of the final RFP, but it is prudent to begin the dialogue with industry in order to adjust the RFP as appropriate in order to meet the timelines.

The draft request for proposal includes safety nets. Boatswain’s chairs, climbing devices and safety nets. Boatman’s chairs are covered in Safety Standard DH10, Scaffolding (additional). SH1 Standard provides the protection personal protective equipment is trained in the proper application, use and inspection of the equipment.

For more information, review the standard in its entirety, which can be found on the AEDC SharePoint site.

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By Secretary of the Air Force Public Affairs

Arlington, Va.

The Air Force announced the Light Attack Aircraft draft request for proposal as the next step in working with industry to determine the Light Attack Aircraft offering that is desired in December 2018.

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By AEDC Safety

The Air Force has awarded a draft request for proposal for Light Attack Aircraft to Arnold Air Force Base on Sept. 4, 2018, to begin formulation of the Light Attack Aircraft (LAA) requirement.

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Air Force releases Light Attack Aircraft draft request for proposal

Air Force releases awards hypersersonic weapon contract

Falls from elevated work areas, resulting in serious injury or death, can and do occur. Therefore, fall protection, arrest, restraint or positioning equipment must be properly selected, inspected and maintained.

Severe injury can also occur if the equipment is not used as specified by the manufacturer and this standard. This standard describes the types of fall arrest, restraint or positioning equipment, such as body belts, self-retracting lifelines, horizontal and vertical lifelines, lokale climbing devices and safety nets. Boatswain’s chairs are covered in Safety Standard DH10, Scaffolding (additional). SH1 Standard provides the protection personal protective equipment is trained in the proper application, use and inspection of the equipment.

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Air Force releases awards hypersonic weapon contract

This contract will provide the critical design, test and production readiness support for the Air-Launched Rapid Response Weapon (ARRW).

The ARRW effort is one of two hypersonic weapon prototyping efforts being pursued by the Air Force to accelerate hypersonic research and development. The ARRW is using rapid prototyping authorized by Section 604 of the FY16 National Defense Authorization Act to explore the art-of-the-possible and to advance these technologies to a capability in 2021.

Leaders from the Air Force, Navy and Army signed a memorandum of agreement June 28 to work cooperatively on hypersonic boost glide technology. The “Joint Team requires the right mix of people, know how and win across the spectrum of competition and conflict,” said Air Force Chief of Staff Gen. David L. Goldfein. “We must push the boundaries of technology and own the high ground in this era of great-power competition and competition.”

This undefinitized contract action allows the government to meet urgent needs by authorizing the contractor to begin work before reaching a final settlement on contract terms and conditions, to include a final negotiated price. The contract is expected to be definitized within 360 days of award.

The Air Force’s other hypersonic weapon rapid prototyping effort is called the Hypersonic Common Technology Base (HCTB). HCTB is using mature technologies that have not been integrated for an air-launched delivery system.

The Armament Directorate of the Air Force Life Cycle Management Center is providing management of these prototyping efforts.
September 4, 2018 • 7

live-fly experiment to gather information about aircraft as well as partner nation.

“It is important to look at the light attack aircraft through the lens of allies and partners,” said Air Force Chief of Gen. David L. Goldfein. “An agile light attack aircraft that delivers a low-cost, low-architecture and low-networking approach will enhance our ability to compete, deter, and win across all domains.”

Air Force awards hypersonic weapon contract.
Prepping Makes Sense. The best defense you and your family will have is a plan. Devise a strategy and then make sure to ensure that your family members are on board. Get ready to get ready.

1 Get a Kit of Emergency Supplies.

Always remember that you have to be prepared. To make sure you are for all possible scenarios, be sure to have a plan that includes your general needs as well as any particular needs of your family members. Make sure you keep your supplies up-to-date and that you have a plan for both short-term and long-term survival.

2 Make a Plan for What You Will Do in an Emergency.

- Develop a Family Communications Plan. Your family may not be together when disaster strikes, so make sure you have a plan to make sure everyone in your family will know what to do and where to meet.
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Create a Plan in the Home.

To prepare for an emergency, you should create a plan that includes the following:

- First, identify the risks. This includes identifying the types of risks that your family is likely to face. This information should be shared within the family and should be used to create a plan that will be effective for everyone.
- Second, identify the resources. This includes identifying the resources that you will need to respond to an emergency. This information should be shared within the family and should be used to create a plan that will be effective for everyone.
- Third, identify the response. This includes identifying the response that will be required to respond to an emergency. This information should be shared within the family and should be used to create a plan that will be effective for everyone.

3 Be Informed. Where Might Help?

There are many things you can do to prepare for the future. First, be aware of the risks that you and your family face. Second, be informed about the resources that are available to you. Third, be prepared to respond to an emergency. This information should be shared within the family and should be used to create a plan that will be effective for everyone.

4 Get Involved in Preparing Your Community.

If your community is at risk of an emergency, it is important to be involved in the planning process. This includes identifying the risks, identifying the resources, and identifying the response. This information should be shared within the family and should be used to create a plan that will be effective for everyone.
Arnold AFB Emergency Management Services conduct MH-47 familiarization training

By Christopher Warner
AEDC Public Affairs

Even though Arnold Engineering Development Complex, headquartered at Arnold Air Force Base, doesn’t have a flying mission, the Arnold AFB Emergency Management Services has to keep their skills sharp and be prepared to respond to real-world aircraft incidents and accidents.

According to Deputy Fire Chief Daryl Vancise, Arnold AFB EMS personnel had a unique opportunity to conduct the type of joint training that will better prepare them to respond to a real-world incident involving a helicopter. On Aug. 16, EMS personnel were able to learn about the nuances of the U.S. Army MH-47 Chinook helicopter, based out of Fort Campbell, Kentucky, by its pilot and crew.

The training enhanced Arnold AFB EMS member’s skills and ability to efficiently respond to an emergency situation which may occur on Arnold AFB or in the Middle Tennessee region involving a Chinook.

The Chinook is a two-engine, tandem rotor, heavy-lift helicopter used to carry large equipment, supplies and troops into combat or training.

Arnold AFB EMS routinely trains on different emergency scenarios to hone their response skills, giving them the ability to respond to a variety of crisis situations that may arise.
Arnold AFB Milestones

RETIREMENTS
Timothy Floyd, TOS
Michael Graham, TOS
William Lock, TOS
John Thomson, TOS

NEW HIRES
Gary Spitalnick, TOS
Layne Bralley, TMAS
Laura Berke, TOS
Shalona Banks, TOS
Jennifer Clemmons, AF
Jonathan Daniel, TOS
James Dill, AF
Thomas Eggersmiller, TOS
William Horton, TOS
Haley Keny, AF
Jason Layne, AF
James Prier, TMAS
Robert Reed, AF
Brian Raper, TOS
Jean Sanchez, TOS
Brian Stirewalt, TOS
Kenny Uselton, TOS
Karen Stovall, AF

PROMOTIONS
Nicholas Addington Ramsay, to second lieutenant
Eric Trud, to lieutenant colonel

DEGREES & CERTIFICATES
Leslie McGowan, AF
Paralegal Specialist Degree, Inducted into National Honor Society-Lambda Epsilon Chi
Andrea Stephens, AF
Key Management Infrastructure certificate

INBOUND MILITARY
Maj. Wesly Anderson, AF
Capt. Christopher Francis, AF
Col. John Tran, AF

30 YEARS
Sandra Harrison, TOS

25 YEARS
Tom Klingelhoets, AF

20 YEARS
Robert Holley, TOS

15 YEARS
Daryle Lopes, FSS

10 YEARS
Summer Bishop, TOS
Matthew Dunle, TMAS
Jenn Kurts, TOS
Aurora Page, TOS

INBOUND NON MILITARY

35 YEARS
John Grissom, TOS
David Henninger, TOS

30 YEARS
William Looney, TOS
Sabrina Williams, TOS

25 YEARS
Sandria Harrison, TOS

20 YEARS
Jim Klingelhoets, AF

15 YEARS
Trent Smith, TOS

10 YEARS
Summer Bishop, TOS
Matthew Dunle, TMAS
Jenn Kurts, TOS
Aurora Page, TOS

30 YEARS
John Grissom, TOS
David Henninger, TOS

35 YEARS
John Grissom, TOS
David Henninger, TOS

March 30, 2018. Subject to change. Please visit www.319th.com for the most up-to-date, accurate, and complete information. Whenever necessary, please visit www.319th.com for more details.
The Arnold Air Force Base Junior Force Council and Air Force Sergeant’s Association sponsor a Car Show and Burger Burn July 27 outside the base auditorium for AEDC team members to attend. (U.S. Air Force photos by Rick Goodfriend) (These images were manipulated by obscuring the badges for security purposes)

AEDC team members attend car show and burger burn