



MISSION: INTEGRATION

HANFORD

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SOLUTIONS

NEWSLETTER

JULY 2024

HANFORD MISSION
HMiS
INTEGRATION SOLUTIONS

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MISSION: FACILITATE

Continuing to work together to turn challenges into opportunities and facilitate change.



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OFFICE OF THE PRESIDENT



Change is not just an inevitable part of life; it creates opportunities for growth and innovation, both for individuals and organizations. That's why it's important to recognize the changes we've recently experienced at HMIS and those we will continue to see.

As part of the HMIS family, we not only adapt to change, we are also committed to facilitating it. We proactively seek opportunities for improvement and are willing to embrace new ideas and approaches. The phrase "this is how we've always done it" is something we push back on. Having a mindset where we facilitate change creates a culture where everyone feels empowered to contribute to our progress.

Now, I understand that change can still be challenging. It can be intimidating and make us anxious, especially when we don't know what to expect. I certainly found it challenging when I came to MSA from WRPS – to a whole new team and scope of work. But if we're dedicated to supporting one another and working towards a common goal, we can make sure the changes we facilitate are positive.

My goal as HMIS president is to continue providing the right tools, resources and support, not just to HMIS, but also to the rest of the One Hanford team in our role as the Site integrator. I want us to continue working together to turn challenges into opportunities and to facilitate change. Your insights, feedback and active participation in all of this is not only welcome, it is essential to our success. Thank you for your continued support and dedication!

5 MINUTES WITH MIKE WINKEL

We had the chance to visit with Mike Winkel, deputy vice president for Information Management Services, and not only did we learn the Swiss Alps are on his bucket list, but instead of yodeling on the Swiss Alps, Mike would be belting out Bohemian Rhapsody. Here's what else we learned in our visit with Mike:

1. What made you want to be a leader?

I've always admired the ambition and the influence leaders possess to make a difference. As I reflect on my various leadership roles, my biggest motivator has been the ability to empower the people that I work with and watching them succeed.

2. Who is a mentor that has made an impact on you?

I've been very fortunate to have so many people who have influenced me, from Jon and Sue Kon to Daniel Saucedo, Todd Synoground and now Todd Eckman. Each of them has a unique leadership style and each have helped round out my own approach.

3. What does *facilitate*, this month's newsletter theme, mean to you?

Facilitation goes hand in hand with empowerment. Facilitating a team to achieve their goals is less about the individual contributions of the leader and more about how they bring the best out of every team member.

4. What do you do in your free time?

I am on a hockey team and over the past few years we've been travelling all over North America and to other countries to play. I am also a proud father of four incredible daughters who keep life very busy. We take our kids with us on as many trips as we can so they can experience new things outside of where we live.

5. When you're having a tough day, what do you do to turn things around?

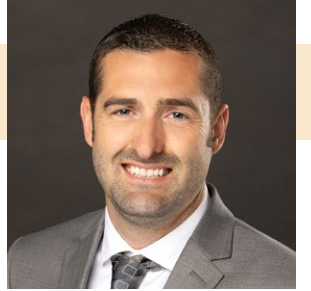
I try to keep things in perspective. Tough times will pass, and you can always learn good lessons from the challenge you just faced. Rely on your support network and don't be afraid to ask for help.

6. What's something about you that people would be surprised to know?

I can't swim.

7. What team do you root for?

The Colorado Avalanche.



RAPID FIRE

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RECOGNITION



Volunteer of the Quarter

Contributor: Dustin Arbogast

Our HMIS Family volunteers are truly the best! Since the start of the new year, almost 150 HMIS employees and their loved ones have donated over 300 hours of time supporting local organizations like Second Harvest, the Red Cross, Junior Achievement and the One Hanford Earth Day event.

This quarter, we recognize Jackie Basche, an operations support specialist with Acquisition Verification Services. Jackie has been in this role for three years and works with “the best team on the Site” she says. From verifying equipment to handling critical timing logistics, it is never dull for her or the team. Jackie also said, “It’s one of those jobs that just when you think you’re caught up, there’s always more coming in.”

When asked why she volunteers, Jackie explained how important time is and “when we give our time to those who need it, the impact can be immeasurable.” Jackie believes her desire to volunteer is in part thanks to



her mom, who still makes handmade winter hats to donate to schools so everyone has one during the winter.

To recognize our Volunteer of the Quarter, HMIS makes a \$250 donation to the non-profit 501(c)3 organization of their choice. Jackie has asked that the contribution go to **Mikey’s Chance Canine Rescue**, an organization that cares and advocates for dogs at every stage of life.

We are so proud of our HMIS Family and their commitment to serve our community. Thank you!



RECOGNITION

HMIS Awards 46 Scholarships

Contributor: Alison Manka

We are dedicated to nurturing the next generation Hanford workforce through our scholarship programs. This year, Workforce Solutions proudly awarded \$47,000 in scholarships to 46 students. This includes 44 scholarships of \$1,000 each for the dependents of HMIS employees and two \$1,500 scholarships for HMIS co-op interns. The Columbia Basin College Foundation administers and distributes scholarship funds on behalf of HMIS, allowing recipients to apply them toward their education at any institution of their choice for the coming academic year.

Scholarship recipients are enrolled in numerous areas of study, including environmental science, business, nursing, engineering, computer science and education. They are attending colleges and universities such as WSU, EWU, Arizona State, University of Virginia, BYU and CBC. HMIS proudly supports the educational efforts of these students, who are the future of Hanford and our community. Congratulations and best of luck to these students!



Congratulations to this year’s HMIS dependent and co-op intern scholarship recipients!

CO-OP INTERN RECIPIENTS:

Payton Viera

Edgar Bustamante

DEPENDENT SCHOLARSHIP RECIPIENTS:

Othnelia Amegashie
 Conner Anderson
 Jesse Bengé
 Lindsey Benham
 Kyan Bowe
 Easton Bowe
 James Camp
 Anthony Chvedov
 Emma Coleman
 Mia DeGarmo
 Reese Dewey

Dillion Dewitt
 KayLee Door
 Annalise Drinkard
 Drew Gadd
 Danika Galbraith
 Jacob Gamino
 Brooklyn Garretson
 Mason Gilmour
 Cole Grandeen
 Chloe Grandeen
 James Green

Michael Hansen
 Haylee Hansen
 Montana Herron
 Cooper Kleinow
 Tanner Lathim
 Sophia Maiuri
 Dane McClure
 Daniel Montes
 Mallory Peite
 Bailey Peite
 Carson Puzey

Jackson Puzey
 Lauren Ratcliffe
 Trevor Reams
 Rylei Ripplinger
 Dakota Silcott
 Colton Starke
 Sydney Stenson
 Ava Suarez
 Audrey Turner
 Elise Von Bargen
 Dorothy Witherspoon

Representatives from DOE and the One Hanford contractors collaborate to ensure sustainable purchasing practices.



EPEAT Repeat – One Hanford Purchasing Program Wins Again!

Contributor: MaryAnne Wuennecke

The Hanford Site has once again been honored as a leader in the field of sustainable procurement of electronics. The One Hanford purchasing team received a 2024 EPEAT (Electronic Product Environmental Assessment Tool) award from the Global Electronics Council.

The award recognizes the joint effort to ensure sustainable purchasing of computers and displays, imaging equipment, televisions, mobile phones and servers. This is the sixth straight year the Hanford Site has won in five categories.

HMIS project specialist John LaFemina said that consistency means a lot. “Being a repeat EPEAT Purchaser Award recipient is important because it highlights the hard work done by the Hanford Site contractors to ensure we purchase environmentally friendly and sustainable items wherever possible.”

The group consists of representatives from DOE, CPCCo, HMIS, IHA, Navarro-ATL and WRPS. They use EPEAT to identify and select products that meet the criteria for reducing the lifecycle impacts that electronics have on the environment. We are proud of the role HMIS plays in this effort!

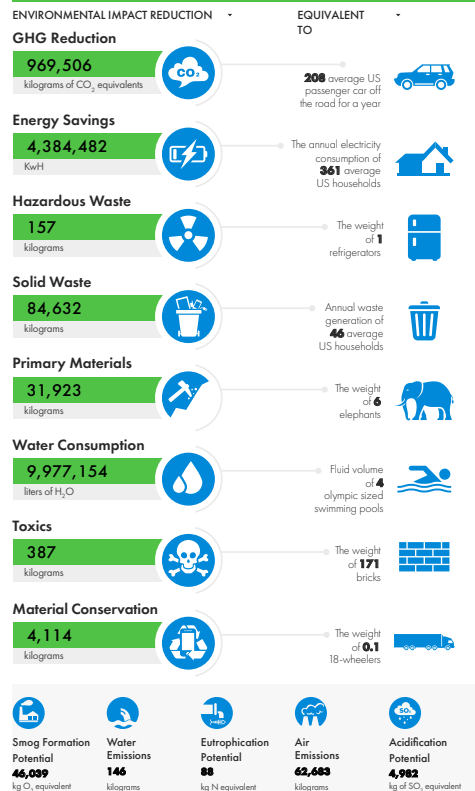
RECOGNITION

Department of Energy Hanford Program



Total sustainability impact and cost savings for 4,294 products purchased in 2023

COST SAVINGS IN THE AMOUNT OF \$ 185,094



Brought to you by the Global Electronics Council®
Sustainability for a Connected Future

This infographic illustrates Hanford's sustainability impacts and costs savings for purchases in 2023.

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HMIS Facilitates Application and Award of BPA Incentives

Contributor: Shyanne Palmus

Since 2012, the Hanford Site has participated in the Bonneville Power Administration's (BPA) Energy Efficiency Incentive program. Our Energy Management team manages this program for the entire Hanford Site – identifying energy efficiency opportunities, collecting data on work scope that improves energy efficiency and submitting incentive applications to BPA on behalf of the project owner at no cost to them. A total of 75 applications have been submitted for qualifying energy efficiency improvements since 2012, amounting to almost \$1.75 million in incentives. Approved incentives are applied to the project that funded the upgrades.

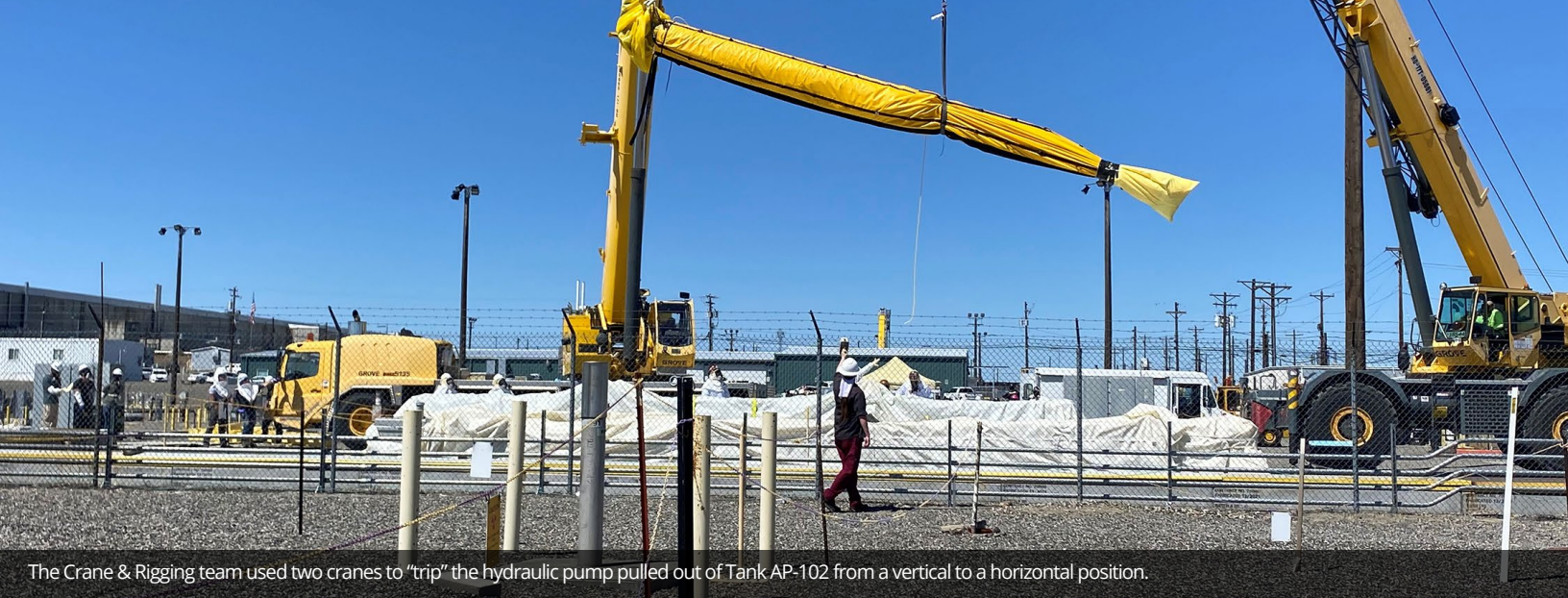
The Energy Management Team consists of HMIS Energy Manager Christian Seavoy and subcontractor Greg Sullivan, who are responsible for collecting and tracking documentation for projects throughout the Hanford Site that may be eligible for incentives. Since 2012, the team has collected and tracked data for 30,000 individual LED lights and fixtures, installed at over 150 facilities site-wide, resulting in a potential energy savings of approximately 7.5 kilowatt-hours per year. That's equal to the average energy consumption of over 700 U.S. households.



HMIS Energy Manager Christian Seavoy (left) and subcontractor Greg Sullivan.

Approximately 78% of Hanford's incentives have been for lighting improvement projects, while roughly 12% have been for HVAC improvements and 10% for electrical transmission and distribution system improvements.

Many of these improvements are identified through facility energy and water audits, required by the Energy Independence & Security Act of 2007. Each year, HMIS audits 50-55 facilities across Hanford to identify opportunities for energy and water savings. These improvements are summarized in a report provided to facility management and operations staff for next steps. Planned or completed efficiency improvements can also be reported by Site employees, including facility personnel, project team members or contractor sustainability staff, to the HMIS team for potential follow-up.



The Crane & Rigging team used two cranes to “trip” the hydraulic pump pulled out of Tank AP-102 from a vertical to a horizontal position.

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Crane & Rigging Helps WRPS Remove Tank Farm Pump

Contributor: Shane Edinger

Our Crane & Rigging team is often called upon to help remove aging equipment around the Hanford Site, but the pump pull they recently assisted WRPS with at Tank AP-102 was no run of the mill exercise. Instead, WRPS incorporated some new technologies to overcome the challenges presented by the legacy hydraulic pump.

Crews used a robotic arm to puncture holes in the pump’s hydraulic lines to drain the fluid in preparation for disposal. Then, they used a high-pressure spray ring to remove any waste or

contamination still attached to the pump before placing the pump in a disposable shield, called a beta bag.

The C&R team was intimately involved in the planning and execution of this project, as they were responsible for slowly pulling the pump out of the tank, holding it steady while the fluids were drained and contamination was removed, and then tripping the pump from a vertical to a horizontal position and carefully placing it in a concrete disposal box for shipment to ERDF.

“On the actual day of the pump pull, it was all hands on deck and the team just executed the plan they spent all that time preparing for.”

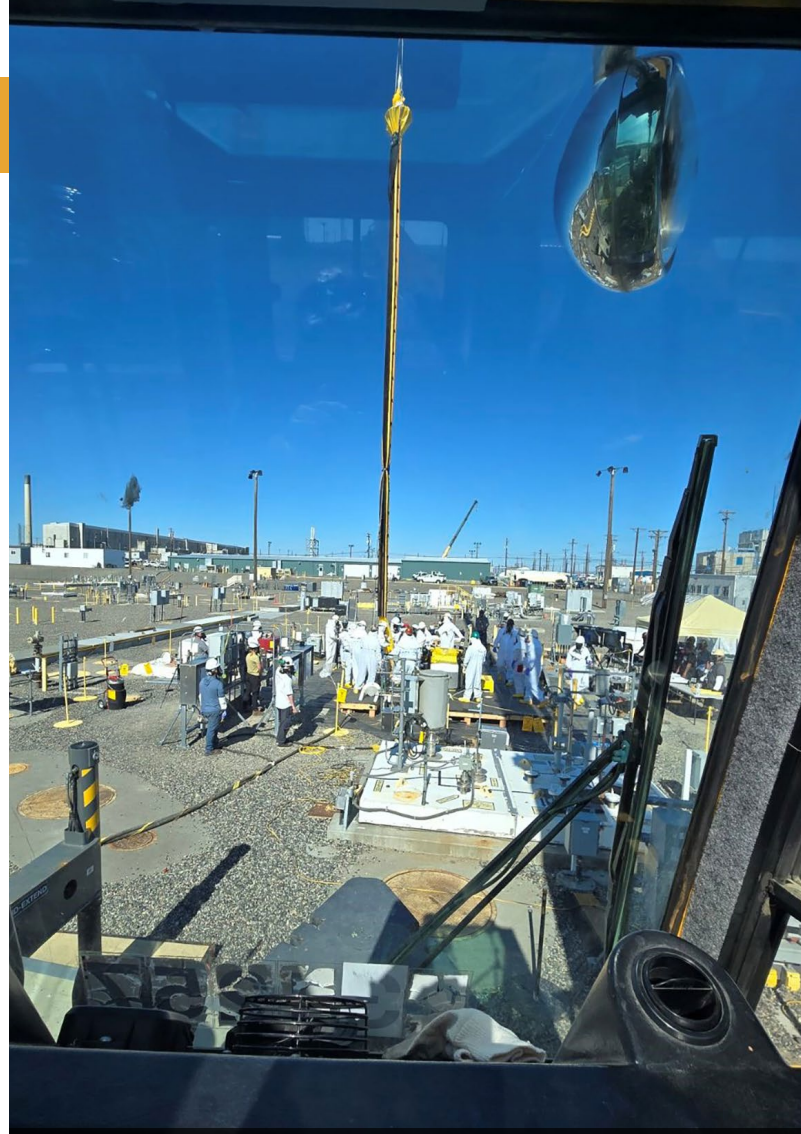
- Ben Massey, Crane and Rigging Tank Farms Supervisor

“With any of these pump pulls, our guys do a tremendous amount of prep and setup work, and that includes a lot of hours spent on planning, engineering and finalizing the special lift plans,” shared Ben Massey, C&R’s Tank Farms supervisor.

The project involved two cranes, a team of eight ironworkers and three operators and took nearly a full day to complete.

“We rotated guys in and out of their positions throughout the day to keep everyone fresh,” said Shahram Jadidi, C&R’s designated lead for this project. “With the respirators and all the other PPE they were wearing, it can wear you down faster than you might expect.”

AP-102’s hydraulic pump and slurry distributor were removed in May, and the C&R team also assisted with the installation of new components into the tank earlier this month.



The view from inside one of the cranes as the slurry distributor was removed from Tank AP-102.

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TEAM FOCUS: Project Delivery

Contributor: Alison Manka

Facilitate, a term used in various contexts, means to make a process or task easier by providing assistance or removing obstacles. For the Project Delivery team, it describes what they do every day. Their role at HMIS is to facilitate infrastructure reliability projects from identification through project closeout.

The PD team, led by Jennifer Ollero, comprises three organizations: Technical Services, Water and Sewer Projects and Electrical Projects. Technical Services, led by Mazin Kamil, handles Z Projects and compliance tasks, which are typically smaller tasks and projects with a short execution timeframe. Water and Sewer Projects, led by Jim Castleberry, manages water and sewer infrastructure projects, while Electrical Projects, also led by Jim, handles electrical and non-water infrastructure projects. Project Delivery is also responsible for performing studies of potential projects as well as long-term strategic planning.

The PD team collaborates with requesting organizations to identify, plan and execute infrastructure upgrades, relying on input and resource support from HMIS infrastructure organizations and OHCs. Once a project is identified, it moves into project initiation,



Meet the team! From left, Kyle Tolbert, Brad Pratt, Cody Gadeberg, Jim Castleberry, Frank Mendez, Jesse Mendez, Jennifer Ollero, Eric Dunford, Mazin Kamil and Eva Rains. (Not pictured, Aaron Holcomb, Bassel Younes and Patrick O'Day)

involving strategic planning and completion of tasks such as environmental screening, cultural and ecological reviews, NEPA reviews, development of functional design criteria, risk elicitation, cost estimation, site evaluation procurement and other activities as the project progresses. These actions ensure compliant execution of a project.

During execution, the project progresses through fieldwork, testing and commissioning of the system(s), turnover to the customer and project closeout. The team collaborates in the field with the HMIS Construction Management team, HMIS support resources and construction subcontractors, engaging with safety, project controls specialists, construction procurement specialists, buyer's technical representatives, the project end-user and DOE.

According to Jennifer, the greatest strength of the PD team lies in its people, "they are problem solvers. They are bright. They are dedicated. They are amazing."



The Hanford Fire Department conducts prescribed burns on accumulated tumbleweeds during wildland fire preparations.



Enhancing fire breaks in critical areas around the Hanford Site is an important step to wildland fire mitigation efforts.

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Wildland Fire Season Heating Up

Contributor: Melissa Ver Steeg

For the Hanford Site, wildland fire preparations begin long before temperatures rise. Pre-season work involves training, enhancing fire breaks and performing prescribed burns, and extends beyond Hanford firefighters. "We have heavy equipment operators, water truck drivers and other support services who all take part in preparing for the fire season," said Hanford Fire Chief Nick Thomas.

As early as February, crews were burning tumbleweeds when weather conditions cooperated and the laser at LIGO was down. In addition to burning 141 piles of tumbleweeds, teams created a 30-foot-wide fire break that stretches for 37 miles along highways 240 and 24. While this may sound straightforward, there is a lot of coordination and consideration that goes into wildland fire prep.

HFD works with our environmental team to ensure proper precautions are taken as it relates to the area's natural habitat and wildlife. From burrowing owls and ground squirrels to sagebrush and rare plant species, there is a great deal to consider before crews put equipment on the ground. "What we do is a fine science," shared Deputy Fire Chief Mark Cope.

While preventative measures continue throughout the year, when fire season picks up in May teams are often busy responding not only to fires on or immediately near the Site, but they provide mutual aid across Benton and Franklin counties and areas in Yakima. By the end of June, the HFD had responded to a pallet fire in Pasco, the cold storage facility fire in Finley and a fire near the Yakima Training Center. In addition, HFD requested mutual aid for the fire near Rattlesnake Mountain. Sharing fire resources across counties is a huge benefit to our communities.



ONE HANFORD

Migratory Bird Protection Soars at Hanford

Contributor: Melissa Ver Steeg

Migratory bird protection is a sitewide effort and one that our Environmental team executes with great care. Their efforts, specifically those surrounding the artificial burrow systems for burrowing owls, earned the Hanford Site this year's Presidential Migratory Bird Federal Stewardship Award. The annual award presented by the U.S. Fish and Wildlife Service Council for the Conservation of Migratory Birds honors actions focused on migratory bird conservation that are aligned with the goals of Executive Order 13186, which outlines responsibilities to minimize adverse impacts on migratory birds.

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With more than 200 species of protected migratory birds that pass through the Hanford Site each year, there is a lot to consider in our actions during cleanup. Conservation of migratory birds is accomplished through habitat surveys prior to ground disturbing activities, nest compliance and guidance to all One Hanford contractors, protecting administrative buffer zones for sensitive nesting areas such as those for bald eagles or ferruginous hawks, working with conservation of prey or habitat for sensitive species and performing extensive monitoring of migratory bird species, to name a few.

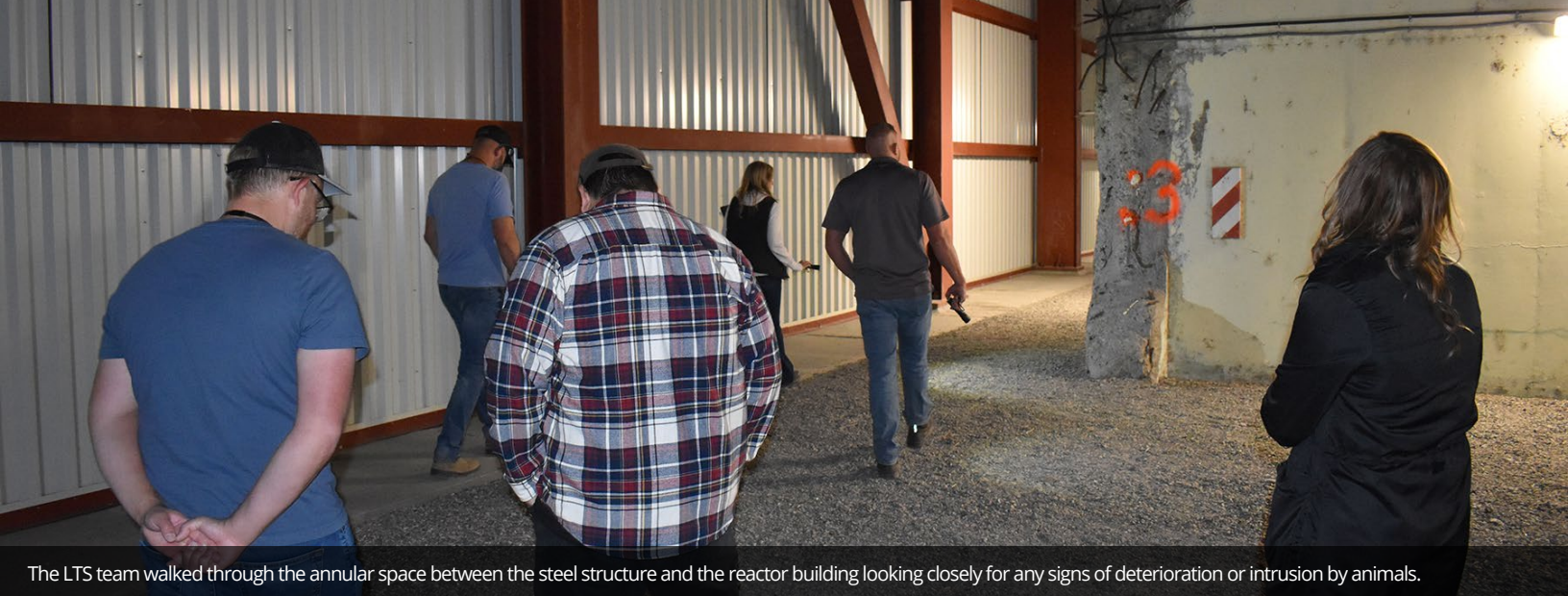
These actions take place to ensure the cleanup mission does not adversely impact protected or sensitive species, both plants and animals. Through our monitoring program, we can take action to make sure species will be around for future generations, which is exactly what happened with the burrowing owl. Long-term monitoring determined that the number of burrowing owls were on the decline. Trending uncovered that only three breeding pairs of burrowing owls still called Hanford home by 2019.

After reviewing this data, the Environmental team took action to install artificial burrows to provide more nesting opportunities to the owls. Since the efforts began, with over 70 burrows installed, the Site has seen an increase to more than 30 pairs of burrowing owls! "Protecting sensitive species and implementing effective actions when needs arise benefits Hanford's entire ecological system," shared Biologist Justin Wilde.



Western burrowing owls prosper at Hanford thanks to artificial burrow systems installed by our Environmental team.

Artificial burrow systems provide additional nesting areas for burrowing owls, increasing the overall population on Site.



The LTS team walked through the annular space between the steel structure and the reactor building looking closely for any signs of deterioration or intrusion by animals.



Justin Wilde with the Ecological Monitoring and Compliance team uses a flashlight to inspect the walls for any signs of intrusion by birds or bats.



The LTS team walked the exterior of 105KE reactor before heading inside.

ONE HANFORD

LTS Team Completes First Inspection of 105KE Reactor

Contributor: Shane Edinger

Some dark corners and spiderwebs greeted the Long-Term Stewardship team as they recently took their first look inside the 105KE reactor, a little more than a year after it was turned over to the Long-Term Stewardship program. The annual inspection is part of DOE's Post-Cleanup Surveillance and Maintenance Program, and it gave the LTS team a chance to look for any signs of intrusion by birds or other animals, or deterioration of the structure.

"We weren't expecting to find a lot of deterioration since the reactor has only been cocooned for a little over a year," shared Deanna Breckon with the Long-Term Stewardship program. "We did take a very close look at the concrete footing of the Safe Storage Enclosure to see if any birds or critters were able to find a way inside the steel structure."

The sUAS team was able to fly their drone inside the annular space between the steel structure and the reactor itself, allowing the team to inspect the reactor's roof as well as its outside walls. The drone was also used to inspect the roof of the steel enclosure.

"That has been a game changer from a safety perspective," Breckon added. "We can get a birds' eye view of the roof while keeping everyone safely on the ground."

The LTS team does an exterior inspection of all reactors every year, while interior inspections are completed every ten years, with the next round in 2025.

"Next spring will be very busy because we'll be opening up all the reactors for their 10-year inspections," Breckon said. "It will be a lot of work, but it's exciting because we've got some newer folks

on the team and this will be their first chance to see inside the cocooned reactors."

The exterior of 105KE will continue to be inspected annually, while the interior will be inspected again in five years, and then again in 2035, which will line it up with the 10-year inspection schedule for the other cocooned reactors.

ONE HANFORD



Attendees at the One Hanford Leadership Intern Roundtable.

One Hanford Hosts Intern Event

Contributor: Shyanne Palmus

On July 11, a group of 120 interns from across the Hanford Site converged to learn more about the mission and impact of each One Hanford contractor. The One Hanford intern event provided interns the opportunity to engage with Hanford leadership, who highlighted the mission and goals of each of their organizations, fostering a deeper understanding and appreciation of the collective efforts that are driving the One Hanford mission forward.

Interns heard short presentations from the leaders, including our own Amy Basche and Todd Synoground, followed by a panel discussion to get to know these leaders a little better.

Interns were left with a greater understanding of the role of each organization, some career advice from leadership and insight into the individuals that are leading the companies they are working for. Twenty-five interns are working for HMIS this summer and we look forward to their contributions, and those of all of the interns, as part of the One Hanford team.



HMIS COO, Todd Synoground (left) and Amy Basche, president (right), speak to interns at the One Hanford intern event.

ONE HANFORD

200 East Emergency Sanitary Water Pump Returns to Service

Contributor: Shyanne Palmus

Operational Acceptance Testing and the return to service of the 200 East area emergency sanitary water pump has officially been completed. The pump was out of service from February 2020



The repaired and returned to service Metron fire pump cabinet in 200 East.

through May 2024, due to a breaker burning up during an annual flow test.

Along with its twin in the 200 West area, the two serve a fire water supply function, as either of the two, 1.1-million-gallon emergency sanitary water tanks can be used to provide a reliable supply of water to fight fires on the Central Plateau, thanks to a cross-site tie in the water grid.

A team including HMIS engineers, electricians and stationary operating engineers (SOEs), along with vendor support personnel, thought previous pump failures may have been partially the result of incorrect settings on the diesel generator powering the pump. Thorough investigation found this to be true - settings on components of the diesel generator, which had been replaced in 2015, played a major role.



Team members who worked to troubleshoot the settings on the 282-ED diesel generator (left to right): Derek Judy, Justin Dubois, Bryan Hills, Scott Benson, Larry Lozier, Pierce Jones, Paul Brown and Jonathon Jennings.

“It was just two small screws needing rotation,” said Pierce Jones, electrical design authority for the project when referring to the technical nuances and troubleshooting aspects of the project. “Once we had the right team together, everything went smooth from there.”

“Nothing was easy on this project,” according to Anthony Gatlin, design authority for the sanitary water system for much of the project. “But in the end the team figured it out and got the pump working again.” The team is now applying lessons learned from the project to prevent similar failures from affecting the 200 West emergency sanitary water pump.

“Restarting emergency fire pumps is not something that we do every day on the Hanford Site,” said Jonathan Kon, director of Water & Sewer Utilities. “But this team brought together the right skill sets for a systematic and thorough approach.”

Principal team members, besides Jones and Gatlin, included field work supervisors Shane Burkhead and Bryan Hills, and SOEs Jon Jennings, Dave Keller and Robert Vanderburg.



Vice President of Engineering & Projects Diane Cato (on stage, far right) participated in a panel discussion as part of a luncheon celebrating International Women in Engineering Day.

Celebrating Women in Engineering with Lunch, Lively Discussion

Contributor: Shane Edinger

Recent data shows that women make up about 48% of the workforce in the U.S., but only account for about 15% of all workers in the engineering field. That's one of the many challenges the Society of Women Engineers is working to overcome, and it's a big reason why events like last month's Women in Engineering luncheon are so important.

HMIS Vice President of Engineering & Projects Diane Cato helped organize the event to celebrate International Women in Engineering Day. Any woman working in an engineering field with HMIS was invited to attend. After a light lunch, the group held a

panel discussion which featured Cato, Jenny Kadinger with WRPS and Heidi Schuette with Veolia Nuclear Solutions.

The trio talked about what inspired them to pursue a career in engineering, the challenges they've faced as a woman in the field, and how the work environment in engineering has changed since they started their careers.

"It is important to me that we celebrate our women in engineering," Cato shared. "This event gave them a chance to hear from several female engineering leaders in our community, and the panelists shared openly about the things they struggle with and how they work to overcome them."

After the panel discussion, attendees broke off into small groups to discuss specific challenges and misconceptions about women in engineering, and to brainstorm potential ways to support and empower more women to pursue careers in engineering.

"Women in engineering still face many challenges their male counterparts do not, and sometimes they can feel isolated, like they're the only ones facing those challenges," Cato added. "The small group discussions were a great opportunity for us to share concerns with each other and identify strategies to make improvements."



Attendees discuss the challenges women often face in the engineering field.