

DECEMBER 2019

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FOR THE **SECURITY** OF OUR NATION **8**

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As most of you know, the Department of Energy announced the award of the new Hanford Mission Essential Services Contract earlier this month.

MSA
Mission Support Alliance

MESSAGE FROM THE PRESIDENT



Once we receive the notice to proceed from DOE, we will begin a 120-day transition period to the Hanford Mission Integration Solutions team, a partnership of Leidos, Centerra Group and Parsons. We will continue to communicate with everyone as we learn more and receive further direction. In the meantime, if you have questions, I encourage you to ask someone in your management chain or check out the MSA [Transition webpage](#) and the FAQ's listed there.

I also want to say thank you to the MSA family once again. I have been a part of this team for almost five years and I am continually proud of the hard work, attention to detail, safety records and more, that we excel in. We celebrate our successes, find opportunities for improvement and ensure that cleanup work at Hanford is able to continue. What's more, we also make a huge difference in our community. Whether it's sorting food at Second Harvest, buying Christmas gifts for those in need, building bicycles or raising money, this team goes above and beyond to show how much we care.

As we look toward a new calendar year, a new decade and a new contract, I look forward to continuing these efforts and much more. Wishing you all a Happy New Year!

Bob Wilkinson
President

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Technical editor Jo Lynn Draper with MSA's Ecological Monitoring and Environmental Surveillance coordinates, edits and formats the Hanford Annual Site Environmental Report in collaboration with her MSA team, DOE, PNNL, CHPRC, WRPS and Bechtel.

MSA Highlighted for Best Practices in **ENVIRONMENTAL REPORTING**

At a recent DOE headquarters workshop, the Hanford Annual Site Environmental Report was noted for best practices in the areas of Executive Summary, Emergency Planning and Community Right-to-Know Reporting, Radiological Dose and Release Reporting, Maximally Exposed Individual Dose Calculations, and Groundwater Monitoring Tables and Trending.

Each year, MSA's Ecological Monitoring and Environmental Surveillance organization (as well as contributors from DOE-RL, ORP,

Bechtel, CH2M HILL, Pacific Northwest National Laboratory and Washington River Protection Solutions) prepares the report for DOE. The report demonstrates Hanford's environmental compliance and is also used to communicate information to the public, regulators, stakeholders and other interested parties living near the Hanford Site.

Thank you to the EMES team for your hard work and dedication to providing a quality product and for setting your standards high.



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Employees with subcontractor DGR Grant Construction seal the roof and seams of Fire Station 92.



Project Services used a combination of sealing ridge seams and applying a special coating to repair the roof at Fire Station 92. The finished roof is now ready for a leak-free winter.

INFRASTRUCTURE ACTIVITIES

Project Services Uses Unique Method to Repair Fire Station Roof

MSA’s Project Services recently helped the Hanford Fire Department address a long-standing safety concern at Fire Station 92. The roof at the fire station had been leaking for some time, but because the station is currently part of a feasibility study looking to consolidate fire stations, a roof replacement was not a viable option.

A leaking roof presents a number of safety concerns, such as pooling water, degradation of the roof and possible mold that needed to be alleviated in this 24/7 facility.

The project team, with support from facility personnel, assessed the situation, available options and challenges, and came up with a unique and cost effective solution to repair the roof before the winter season.

The team’s solution was to seal the ridge seams of the roof and apply a special elastomeric weather resistant coating over the entire roofing system. The coating is expected to last more than five years and will prevent any additional damage or leaking while the feasibility study is completed. Approximately 1,100 tubes of caulking, 90 gallons of primer and 375 gallons of sealant were used on the 25,000 square feet of roofing.

Project manager Mazin Kamil said, “By aggressively managing the schedule and with strong support from the subcontractor and the facility, we are pleased that we completed this project prior to winter to provide HFD a safe and leak-free facility.”

The project demonstrated success before it was even complete – partway through the application of the coating, the area received a half-inch of rain and the roof did not leak at all.

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Substation electrician Matthew Starkey (left) and environmental compliance officer Mike Demiter (right) perform oil reconditioning on a transformer in the 200 West Area and monitor for any potential off-gassing.

Electrical Utilities Now Reconditioning Oil

Electrical Utilities recently began using an oil processing cart to recondition existing oil in electrical transformers. Oil reconditioning takes old oil and essentially makes it new again, reducing environmental waste and saving money.

With more than 700 electrical transformers on the Hanford Site, each containing anywhere from 300 to 12,000 gallons of oil, this has the potential to prevent large amounts of oil waste and generate significant cost savings. The project will also help ensure the integrity of Hanford's electrical systems by preventing large outages and system failures caused by degraded oil.

EU realized the need for this technology while taking oil samples as part of its annual preventive maintenance program. Oil condition in transformers - a critical factor in the overall health of an electrical system - was showing increased levels of degradation. Substation electricians can now recondition and reclaim transformer oil an unlimited number of times.

Using the oil processing cart, technicians hook up to the transformer and filter and heat the oil in it to remove gasses, water and other impurities. EU first used the oil processing cart on two transformers that serve the Waste Receiving and Processing Facility in the 200 West Area. Oil samples taken from these two transformers after the reconditioning showed positive results.

EU will continue to analyze data to identify transformer oil that is degrading and use the oil filtration cart to recondition it. They expect to do this up to 12 times per year at various transformers around the Hanford Site.

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Straw bales are being set to prepare for spreading over new seedlings in revegetated areas. Laying straw helps create a microclimate for the seeds to germinate during the winter months, keeping moisture in and protecting them from the elements and animals.



Jose Renteria with Biological Controls, prepares for planting shrub plugs as part of revegetation efforts near the 100N Area.

IN SUPPORT of **CLEAN UP**

2020 Revegetation Efforts Underway

While many of us are thinking about winter preparation, a few groups within MSA are working on planting. Long-Term Stewardship, Environmental Integration Services and Biological Controls are working together to revegetate over 100 acres of land this winter.

MSA teamsters have started planting native grasses, flowers, and shrub plugs (which are small seedlings that have a few inches of growth, soil and a root structure). Revegetation efforts for fiscal year 2020 will focus on the 100 N Area of the Hanford Site. Higher levels of rainfall in winter make this the optimal planting time.

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In fiscal year 2019, the central warehousing and delivery team processed more than 239,000 pieces of incoming freight, an increase of more than 30% over the previous year. Pictured from left to right are: Alex Cuello, Kent Sumner, William Keck, Ryan Johnson, Jeff Webb and Ken Jackson.

IN SUPPORT of **CLEAN UP**

That's a Ton of Freight

You see them delivering computer equipment, water bottles, jugs, and specialized tools for cleanup, but did you know the central warehousing and delivery team processed more than 239,000 pieces of freight in fiscal year 2019?

That number represents a 30% increase over the previous year. The team processed nearly 20,000 freight pieces per month; at times 1,600 a day or more.

"This is the highest volume of freight that has come through the warehouse in at least 10 years," said John Horton, manager of Property and Warehouse Management at AKIMA (subcontractor to MSA). "The increase in warehouse traffic is a reflection of cleanup progress across the site."

Horton said they were able to manage this increase and maintain their current delivery schedule without having to bring in additional staff. As the site looks to transition to 24-7

operations with the startup of the Direct-Feed Low-Activity Waste program, Horton expects the central warehousing and delivery team to stay busy receiving and delivering materials to workers across the site.

The team is responsible for receiving shipments, inspecting items for quality assurance and storing spare parts and equipment.

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From left to right: Mike Pardini, Jeannette Mason, JR Thomas, and Brian Esparza are part of MSA's Site Mission Integration and Analysis organization, which helps provide sitewide planning and objectives for the future of the site.

IN SUPPORT of **CLEAN UP**

MSA Organization Helps Guide the Future of Hanford

With the site preparing for the next phase of cleanup, MSA is playing a pivotal role in developing sitewide planning, goals and objectives that will guide the Hanford cleanup strategies well into the future.

DOE leadership asked MSA's Site Mission Integration and Analysis organization to create 5-year and 10-year plans that will set priorities and help align cleanup strategies across the entire site.

"One of the goals of our organization is to assist DOE and the other Hanford contractors with integrating near and long term plans, especially as we transition into tank waste treatment via Direct-Feed Low-Activity Waste," said Mike Pardini, director of the Site Mission Integration and Analysis organization.

"The development of these plans and establishment of the Hanford Life Cycle Cleanup Baseline will ensure sitewide consistency while laying the groundwork to help DOE make effective cleanup decisions."

The team is working on several system upgrades, including developing an automated tool for collecting and integrating DOE and contractor planning information for the lifecycle cleanup baseline. The tool will allow the integration team to quickly receive data, providing the necessary information to make informed decisions on the site's cleanup mission.

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Special Response Team students stand ready for their next day of training.

GROWING MSA

Hanford Patrol Special Response Team Graduates

Hanford Patrol's Special Response Team recently graduated six new elite members to the program. The SRT program's primary mission is the protection of special nuclear material and includes the ability to recapture the material, if necessary.

"Becoming a part of the SRT is not a simple endeavor," said SRT commander Jason Gessner. "Only existing Hanford Patrol men and women can apply and must be recommended by their supervisors."

The candidate must go through the SRT tryout process, which includes a minimum fitness

standard and SRT-level required shooting accuracy necessary to be eligible for the final oral board. Once accepted in the program, the training consists of a seven-week course.

To graduate from the SRT training, each student must be proficient in all tactical requirements, equipment and weapons, have a minimum shooting score of 90% and pass multiple written exams.

"Graduating into the SRT program is a great honor as it is the most difficult course in the DOE complex with a dropout/failure rate of ~33%," said Gessner.



Special Response Team student shooting through the '9-hole board.' The board is designed to challenge the students with different shooting positions and weapon angles.

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Grant Ryan, MSA's chief engineer presented the Hanford Site Engineer Basics training course to more than 30 students from MSA and WRPS.

GROWING MSA

Engineering Basics Offers New Employees Hanford Fundamentals

MSA's chief engineer Grant Ryan recently presented the Hanford Site Engineer Basics training course to more than 30 students from MSA and WRPS. This entry-level course, which is available to MSA, WRPS, and CHRPC, offers new engineers or engineers new to Hanford, an overview of the engineering processes used on site.

This course was developed about two years ago as a means to provide a basic understanding of the skills and knowledge needed to successfully work in Engineering at Hanford facilities.

A few of the course topics include:

- An overview of the importance of engineering at Hanford
- An introduction to the engineering design process
- The importance of engineering configuration management
- Engineering's interface with work planning processes

The three-hour course offers engineers basic information about the Hanford Site, an overview of their role, practical exercises associated with the engineering design process and other helpful resources.

"I most enjoy leading the practical engineering design process activities that are incorporated into the course materials," said Grant Ryan. "These exercises typically foster a high-level of interaction and discussion by the attendees that help reinforce the concepts presented."

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Jessica Esparza of Human Resources and Neil Corrigan from Information Management.



MSA cyber security employees Neil Corrigan, Kevin Stafford, Vernon Littlewolf, and Bri Mostoller.

GROWING MSA

HR and IM Team Up to Build the Next Wave of Cyber Experts

MSA's Human Resources and Information Management teams recently participated in a series of events for college students who are preparing to enter the workforce. As part of the recent 2019 DOE CyberForce Competition at PNNL, MSA participated in a job fair, where they met with students and discussed careers in cyber security. During the competition, MSA's cyber team challenged students from WSU Tri-Cities and other universities by launching a series of simulated cyberattacks, which tested the student's ability to respond.

The Coding Cougs Resumé Workshop at WSU Tri-Cities was targeted toward students in computer science and cyber security. MSA spoke with students, reviewed resumé and helped students search for jobs and internships.

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Kristine Studniski, Dalton Morgan, Pam Williamson and Cindy Stroud hold up their safety posters, made during their monthly safety meeting.

FOCUS ON SAFETY

Making Safety Fun for Employees

Kristine Studniski and Libby Butler engaged employees with a safety related activity during one of their monthly EZAC safety meetings. Groups were given an envelope with information relating to a safety topic and were asked to create a poster representing the topic and present it to the group.

This activity was a great team building exercise where employees could be creative and speak about safety in a relatable manner. Kudos to the EZAC chairs for their creativity and for keeping safety a priority!



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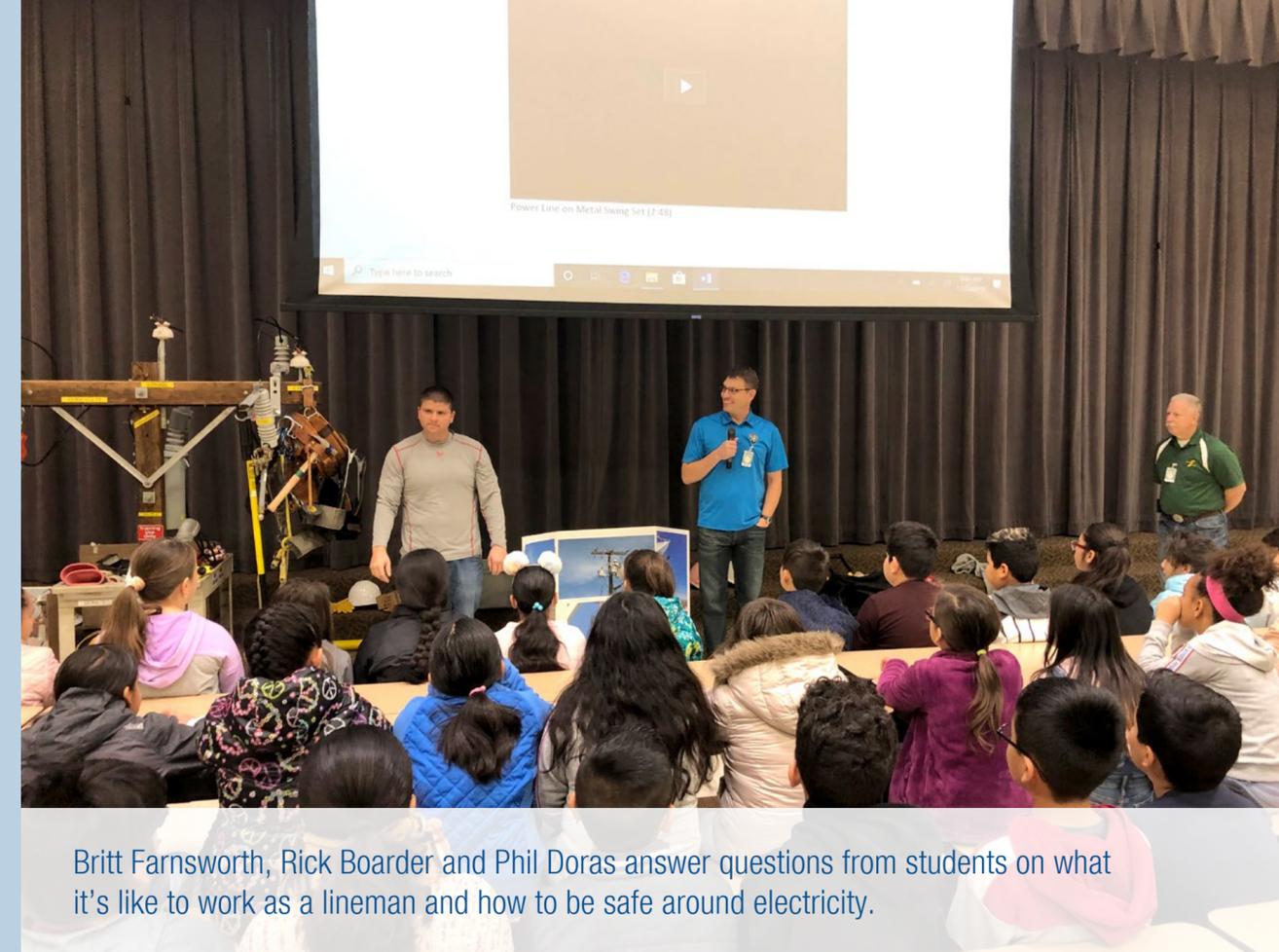
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A fourth grader at Marie Curie STEM Elementary tries on some of the equipment used by EU linemen with the help of Britt Farnsworth.



Britt Farnsworth, Rick Boarder and Phil Doras answer questions from students on what it's like to work as a lineman and how to be safe around electricity.

COMMUNITY OUTREACH

Recruiting the Next Generation of Linemen

Employees from Electrical Utilities recently had the opportunity to speak to fourth graders at Marie Curie STEM Elementary School in Pasco.

Manager Rick Boarder and linemen Phil Doras and Britt Farnsworth, gave a presentation on the lineman field and the important work they do. Using a mobile electrical pole mock-up, Phil and Britt demonstrated the tools they use and talked about the importance of safety around power poles and power lines. Afterwards, one student shared the most important thing they learned, "Don't let balloons go... it can cause (electrical) explosions."

EU shared several videos as part of the presentation, including one about women linemen, which was a huge hit for the approximately 50% of the students that are female. One young woman was excited after the presentation and wrote in her recap, "GIRLS can do it!" With nearly 200 students in two sessions, the presentation was a great lead-in to their section on energy.

"This was a great opportunity to plant seeds with these students and teach them about a future career possibility," said lineman Phil Doras. "The students were engaged and asked great questions and we had fun seeing them get excited about learning."

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Members of Hanford Patrol were a major part of the Special Olympics Fall Games opening ceremonies and competitions throughout the weekend. In total, more than 50 officers from 12 different law enforcement agencies were involved in the Torch Run and event, more than any other state run.



Dan Irish with Hanford Patrol helped carry the torch for the torch run as part of the Special Olympics Fall Games. Dan is pictured with athlete James Gerhard.

COMMUNITY OUTREACH

Special Olympics Fall Games Come to Town

Many MSA employees were on hand to volunteer and cheer on the athletes at the Special Olympics of Washington Fall Games held in the Tri-Cities. As the State Coordinator for the Law Enforcement Torch Run, which also benefits Special Olympics, Dan Irish with Hanford Patrol played an important role in having the Fall Games held here for the first time.

Dan shared, “It has been a dream of mine since I started working with Special Olympics to bring the games here locally – something that has never been done in eastern Washington.

With the help of many volunteers and fellow members of Hanford Patrol, we were able to get the attention of other motivated companies who believed in Special Olympics and in us. I’m very excited I get to be a part of all of this and see the impact this great event has made on our athletes and the Tri-Cities, and can’t wait to be a part of it for years to come.”

Congratulations to the athletes and thank you to the many dedicated volunteers who made this a reality!



Julie Toon with Water & Sewer Utilities, Jennifer Ollero with Operation Support Services, Kim Knight (retired MSA employee), and Jon Toon with Radiological Controls, served as volunteers during the bowling competition for the Special Olympics of Washington Fall Games.

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Custodial Services EZAC chairs, Josh Smedley, Tim Clements, Hiedi Schell and Jeanette Cirignano presented cancer awareness and prevention strategies.



Doug Henderson made sure that even the equipment got in on the “pink-out” fundraiser to support several people in Custodial Services that have been impacted by cancer.



Eva Cisneros (Project Services), Kristin Strankman (Performance Reporting & Reliability Projects), Debbie Strankman (Enterprise Customer Support Services) and Lynn Tanasse (SES Services) all participated in the Thanksgiving Day Turkey Trot.



Safety rep Gordy Denman closes in on the finish line during the Turkey Trot.

COMMUNITY OUTREACH

▲ Custodial Services Gives Back

Earlier this fall, the Custodial Services team came together to raise more than \$3,300 for three of their team members who are either battling cancer or have a loved one battling cancer! One event was a great demonstration of their commitment to safety AND helping one another – they “pinked out” their monthly EZAC meeting while learning about cancer awareness.

▲ Thanksgiving Day Turkey Trot

MSA employees and their loved ones braved a cold and windy morning on Thanksgiving to participate in the annual Turkey Trot, benefitting our local American Red Cross. Despite the cold, attendees had a great time running or walking a one-mile or 5k course in Columbia Park.

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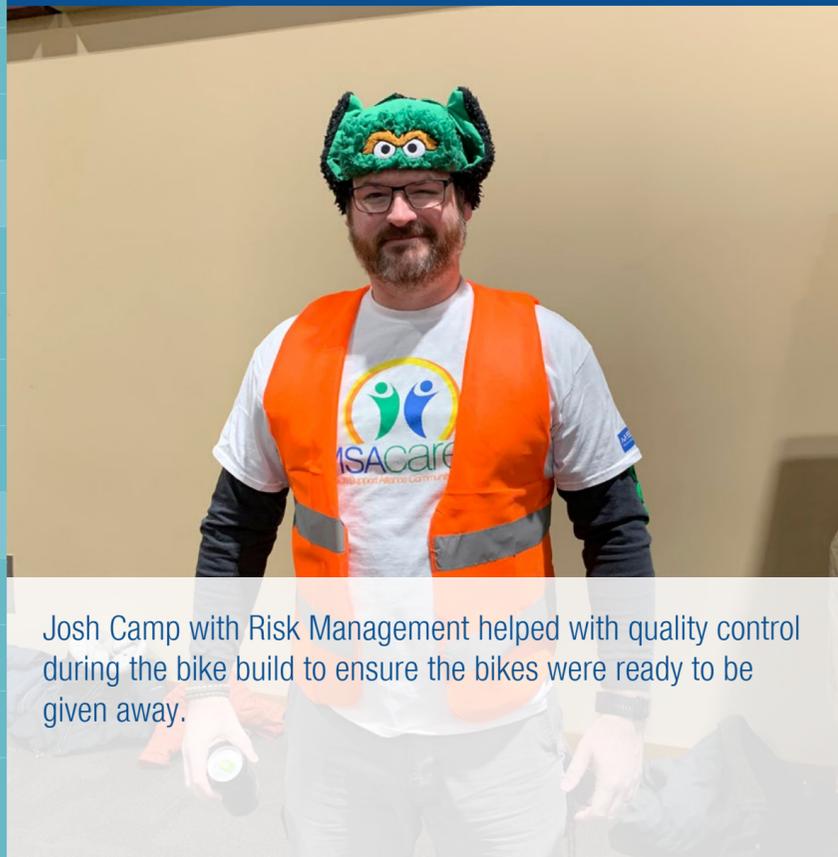


Chris Shannon with Information Management and Mike Eddy with DOE pose with one of the many bicycles they built.



(Left to right) MSA employees Oudone Voraphaychith, Harry Bajwa, Keisha Garcia and Kayla Kinion take a quick break from building bicycles for a photo opportunity with Santa Claus.

COMMUNITY OUTREACH



Josh Camp with Risk Management helped with quality control during the bike build to ensure the bikes were ready to be given away.

Bikes for Tikes 2019

MSA employees were excited to once again volunteered to help assemble bicycles alongside students and community members for Bikes for Tikes.

Bikes for Tikes is celebrating their 10th year and it broke records. Two-thousand bicycles were built and will be distributed to local kids, along with helmets.

This is the fifth year in a row that MSA employees have volunteered through MSA Cares and we broke our own record with 100 volunteers – the most we've had for a single event!

Thank you to the MSA employees and their loved ones for their hard work and making the holidays brighter for so many.

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Thank you to the Information Systems team for making a difference in our community.



Project manager John Rider didn't hesitate to jump right in to volunteering... literally. When Second Harvest's bin tipper wouldn't work he made sure the team still got to the bottom of the onion bin!

COMMUNITY OUTREACH

Information Systems Team Gives Back

MSA's Information Systems team, led by Ashley Ward, wanted to do some team building while helping a local organization. In November, more than 30 IS team members and some of their loved ones got together to volunteer with Second Harvest.

The group sorted more than 33,000 pounds of onions, bread and spaghetti squash, which equates to 27,997 meals for people in our community.



Ines Zozaya-Geist, Sue Hood and Dashia Huff sort and package bread at Second Harvest.

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COMMUNITY OUTREACH



Gifting the Gift of Service

MSA employees and family members know how to kick off the holidays by serving their community at Second Harvest.

Volunteers helped with Second Harvest's Turkey Drive, which provides local families everything they need to enjoy a nice Thanksgiving dinner with their loved ones.

In a matter of hours, they helped fill 1,500 turkey boxes. Their act of service helps so many and we're grateful to have so many caring volunteers!



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On behalf of MSA Communications, we want to say a special thank you to Ginger Benecke. Ginger has had oversight of Streamline for many years. She recently moved to a different MSA organization and we wish her the best of luck.

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