

REACH



A publication of the U.S. Department of Energy for all Hanford Site employees

Hanford Fire trains with the U.S. Marines

Karin Nickola, FH

The Volpentest HAMMER Training and Education Center was awash in brown, green and tan Oct. 14-18 as the U.S. Marine Corps Chemical Biological Incident Response Force, or CBIRF, trained with the Hanford Fire Department.

It wasn't the first time CBIRF had been at HAMMER working with the Hanford Fire Department. In the spring of 1998, four CBIRF team members critiqued it as the HFD responded to a simulated nerve-gas scenario. And several Marines observed a site-wide exercise at the tank farms in 1999.

This recent experience at HAMMER, however, was the first time so large a contingent of CBIRF's Marines have trained here.

Born of necessity

CBIRF is a Marine Corps unit formed after the 1995 terrorist attack on the Tokyo subway system. The attack demonstrated the need for a U.S. chemical, biological, radiological and high-yield explosive response team. The Marine Warfighting Laboratory developed the concept, and by the spring of 1996, CBIRF was formed.

The mission of CBIRF, which is based in Indian Head, Md., is to augment civilian first-response teams in detecting and identifying agents, performing search- and-rescue operations, decontaminating personnel and providing emergency medical care. The unit has 380 Marines and sailors, and can be deployed nationally or internationally.

A special group of 90 CBIRF personnel form the Initial Response Force that maintains a 24-hour readiness posture and can be deployed within one hour.



Marines with the Chemical Biological Incident Response Force practice rappelling at Hanford's Volpentest HAMMER Training and Education Center.

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Hanford Fire trains with the U.S. Marines, cont.

Real as it gets

Accompanied by Hanford firefighters, Marines practiced rappelling and high- angle rescue at HAMMER's six-story training tower. They simulated search-and-rescue operations at the HAMMER Burn Building, the Search and Rescue Building and the Confined Space Prop.

They did "shoot-don't-shoot" exercises with the Hanford Patrol and practiced medical response using an actual Huey Helicopter from Fairchild Air Force Base in Spokane.



A U.S. Marine Corps trainee uses the HAMMER Confined Space Prop in a search-and-rescue simulation.

During an Oct. 18 exercise, both Hanford Fire and the Marines put their fine-tuned skills to the test by responding to a simulated emergency involving terrorists and chemicals. The scenario began at the HAMMER Railcar/Truck Burn Pad where the "terrorists" had caused a chlorine railcar to derail.

Those who respond to an incident involving chlorine must act quickly to minimize injuries and fatalities. The chlorine leak had to be mitigated. This was accomplished by Hanford fire-fighters, who arrived first to set up incident command. There were more than 40 live "victims" (Hanford Site workers mostly) in town-houses (the HAMMER Burn Building) and a high-rise (the HAMMER Training Tower).

The Marines attended to the rescue and decontamination of both the victims and the responders. The four-hour exercise also involved the 10th Weapons of Mass Destruction Civil Support Team of the Washington Army National Guard.

Performed well

The Hanford Fire Department received high marks for its part in the drill. In a KNDU television newscast requested by NBC Nightly News with Tom Brokaw, CBIRF commander Colonel T.X. Hammes praised the Hanford Fire Department for its response techniques and said it was better prepared than most first-response units he had worked with.

Hanford Fire Department Battalion Chief Dave Hare has been involved with CBIRF since 1997, when he spent five days giving radiological training to the Marines. "This was an absolutely wonderful experience for our local first responders," Hare said of the recent exercise. "Besides the actual training experience, there was a lot of cross training going on behind the scenes. Not only did we learn a lot, we were able to share our search-and-rescue expertise with the Marines, Seattle Fire, the National Guard, the Richland Police Bomb Squad and others in attendance at HAMMER. There was a lot of interaction."

As a result of the Sept. 11 terrorist attacks, plans are in the works to join the Marine Corps Security Force Battalion, the Marine Security Guard Battalion and the Chemical, Biological Incident Response Force under one command. The action would combine highly effective but separate anti-terrorism units into one Marine Corps unit better suited for the war on terrorism. ♦

FH intern experiences a real-world 'classroom'

Rachel Chiavaras, FH

Alma Contreras started working at Hanford as a work-study student while attending Columbia Basin College in 1998. Now a Hanford academic-year intern, Contreras is with the Landlord Project and working on the last year of her undergraduate degree at Washington State University Tri-Cities.

Contreras is one of 11 academic-year interns working with Fluor Hanford. She started her internship in 1998 as an accounting student, but the experience with the Landlord Project has given her some career insight as well as on-the-job training. "When I started, I thought I would major in accounting," Contreras said. "But after I got to do more in the Landlord Project, I started to see a bigger world than just accounting, and I decided to broaden my major to study general business with a minor in management and psychology."

One of the most important benefits of her internship, according to Contreras, is the opportunity it gives her to apply classroom experience to the workplace and see it in action. "Very often, students learn theories and concepts at school, but it's hard to appreciate the knowledge until we have the ability to apply those concepts in a real day-to-day working environment," she said. "This internship has allowed me to do just that and has allowed me to see the value of my education."

Working in the Landlord Project, which manages all the major maintenance and upgrade projects for the site's infrastructure, Contreras has gained experience by assisting in a variety of projects. She was involved in the purchase of the new fire trucks for the site, researching the costs involved and making sure the purchases stayed within budget.

She also developed and now maintains the Work Breakdown Structure. She maintains charge codes for current-year execution and out-year planning, and assists in Project Priority List meetings with customers, the Department of Energy Richland Operations Office and Fluor Hanford.

Contreras and the other 10 academic-year interns in the program work part-time while attending school full-time. They are expected to maintain a full school schedule and keep a minimum 2.5 grade-point average. Contreras works part-time during the academic year and full-time during the summer.

A criterion when applying for an internship is that the student must be enrolled in a major that supports the work assignment. Managers who request an intern must have the workscope and budget approved. A student's performance is a very important factor for remaining in the program. The intern's performance must measure up to the expected company work ethic and have his or her mentor's approval at or above an acceptable level.

Contreras's experience an example of how the "pipeline concept" works. The mentoring organization provides the intern with meaningful learning experiences and real responsibility that increases with the student's college advancement, thus producing a well-mentored candidate for full-time employment.

Academic-year interns work 15 to 19 hours per week. Summer-hire students work assignments of 10 to 12 weeks full-time. Managers interested in requesting interns for the current academic year or next summer can view the Education Outreach Web site at www.rl.gov/communication/outreach/index.html, or contact Theresa Quezada, Fluor Hanford Education Outreach coordinator, at 373-0513. ♦



Academic-year intern Alma Contreras, right, works with her mentor and manager Jo Ann Crigler in the Landlord Project. The landlord function was transferred to Fluor Hanford recently when the workscope of former subcontractor DynCorp Tri-Cities Services was absorbed into Fluor.

Site Fabrication Services certified by Underwriters Laboratories

Fluor Hanford Site Operation's Site Fabrication Services organization achieved certification from Underwriters Laboratories as a 508A Shop on Oct. 4. This significant accomplishment allows SFS to maintain continuity of the UL verification throughout the fabrication process, and SFS can now apply UL labels to the industrial control panels that are components and assemblies for fabrications in support of various SFS customers.

UL 508A is one of the basic standards used to evaluate industrial control equipment. The UL listing mark on an industrial control panel shows that the panel complies with an acceptable safety standard. The certification also enables SFS to remain compliant with Department of Energy Order 6430.1.

To obtain UL certification, SFS personnel applied to the Underwriters Laboratory, attended a UL workshop and passed an initial production inspection. Successful completion of these activities verified that the organization had the ability to meet UL requirements. An on-site inspection by a UL representative during actual fabrication was the final step in achieving UL certification.

Journeyman electricians Jim Harris, Bruce Pittner and recently retired Charlie Snow made significant contributions toward achieving UL certification for SFS. Superintendent John Ammerman provided leadership for the effort. Ron McMurphy and Jim Bolm attended the UL training to become SFS technical administrators, which was required for certification. 200 Area production manager Terry Ostrander completed applications and resolved the many obstacles necessary to obtain UL certification for SFS. ♦



SFS achieved Underwriters Laboratories certification and can apply the UL stamp to industrial control panels that are components of fabrications for their customers. This pumping integration and control skid will be used by CH2M HILL Hanford Group.

New technology predicts contaminant migration

George Rangel, BHI

Technology deployments within the core projects of the Groundwater/Vadose Zone Integration Project are enabling scientists to create a three-dimensional representation of underground contamination left from more than 40 years of defense production at the Hanford Site.

The Integration Project, managed by Bechtel Hanford, Inc., brings together science, technology and information necessary for contaminated soil and groundwater cleanup decisions at Hanford.

The spectral gamma logging system (SGLS) and the radionuclide assessment system (RAS) are two devices being used by MACTEC–Environmental Restoration Services, Inc. to provide information to the Integration Project. The technology measures radiological contaminants in the subsurface. The systems do not require soil sampling, but instead operate with highly sensitive radiological calibrated probes.

MACTEC–ERS is a prime contractor for the Department of Energy’s Grand Junction Office in western Colorado’s Grand Valley. The Grand Junction Office manages the Hanford Geophysics Program for DOE’s Richland Operations Office and the Office of River Protection, and MACTEC-ERS maintains and operates the SGLS and RAS.

“In the 200 Area Remedial Action Project, we use the technology to gather information about contaminant distribution in the vadose zone, which in turn helps in monitoring waste sites and predicting migration time for radiological contaminants toward the groundwater,” said Bruce Ford, 200 Area Remedial Action Project lead at Bechtel Hanford.

“In the Tank Farms Vadose Zone Project, the SGLS system has been applied to provide a baseline against which any changes in contaminant position can be judged,” said Tony Knepp, CH2M HILL Hanford Group project manager. “Likewise, the RAS system is being systematically used in the farms to identify changes.”

Results without waiting

The gamma logging program gives near-real-time results and identifies radiological contaminant locations. Scientists do not have to ship soil samples to a laboratory for results. Furthermore, there is no need to create a new borehole to retrieve a soil sample. One borehole at each monitoring location can be used repeatedly for measuring changes in radiological contaminant movement or activity.

“Analyzing the SGLS data is a complex process, but a very effective method in measuring vadose-zone contaminants,” said Rick McCain, MACTEC–ERS technical lead. “The SGLS identifies man-made, gamma-emitting contaminants in the vadose zone and their location. The RAS is used to monitor changes in contaminant location so we can estimate when the contaminants might reach the groundwater.”



Mike Herman of CH2M HILL Hanford Group lowers a detector probe into a borehole at the 200 West Area SX Tank Farm. The probe is deployed from a logging system attached to the bed of a pickup truck. By comparing gamma radiation measurements collected over time, geophysicists can document contaminant movement in the soil.

Continued on page 6.

New technology predicts contaminant migration, cont.

“The technology we use will aid Hanford in defining cleanup goals and in monitoring facilities where contamination is a potential risk,” said Jim Bertsch, MACTEC-ERS associate vice president. “Ultimately, the technology will help Hanford cleanup with efficient and cost-effective measurements.”

Sharing the data

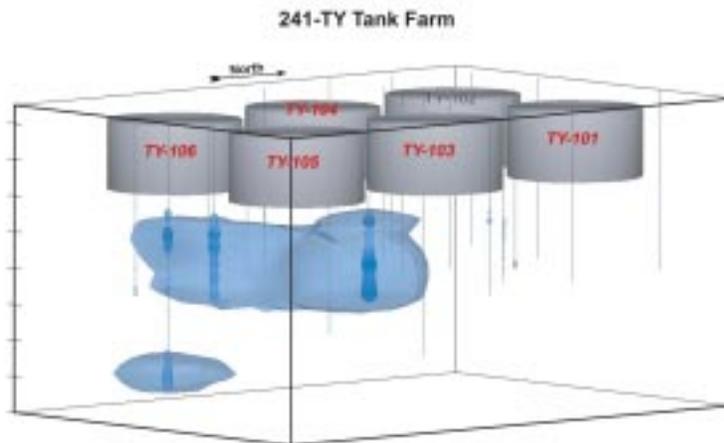
Once scientists have an understanding of contaminants and their concentrations below the surface, the data are entered into a Hanford-wide Web site. A series of charts and graphs are then constructed from the data, and the data are entered into the Integration Project’s System Assessment Capability, an integrated system of new and existing computer models and databases.

Scientists and workers use the models and databases to help DOE, the Washington State Department of Ecology and the U.S. Environmental Protection Agency reach site-specific cleanup decisions.

“DOE’s Office of River Protection and Richland Operations Office are benefiting from this technology,” said Richland Operations Office project manager John Silko. “Successful deployment of technology like the SGLS and RAS help DOE be an effective steward on the central plateau. In addition, the information will help us prepare for more cleanup in the Columbia River corridor and beyond.”



Teresa Musial, a MACTEC-ERS logging engineer, manipulates a hydraulic arm to lower a spectral gamma logging system probe into a monitoring well in Hanford’s 200 West Area. The gamma logging system provides high-resolution measurements that allow geophysicists to identify different radiological contaminants in the soil.



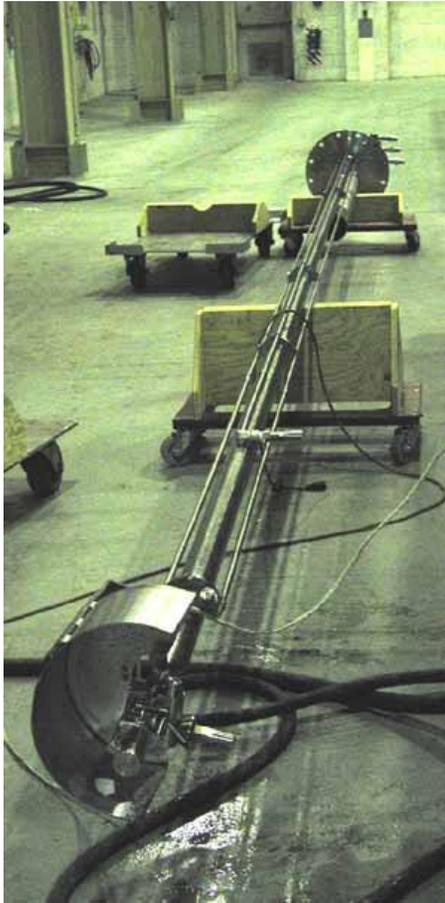
TY Tank Farm visualization of subsurface contaminant plume as determined from SGLS geophysical data.

The Groundwater/Vadose Zone Integration Project Internet site can be accessed at www.bhi-erc.com/projects/vadose. ♦

ORP, CHG combine preparation efforts for Tank U-107

Geoff Tyree, CHG

Pumping of retrievable liquids from single-shell Tank U-107 began on Sept. 30. To save money and improve efficiency, the Department of Energy Office of River Protection and CH2M HILL Hanford Group combined preparations for that effort with another project — the installation of equipment that will be used during an upcoming waste retrieval demonstration.



The Office of River Protection and tank-farms contractor CH2M HILL Hanford Group combined upgrades needed to pump the retrievable liquid waste from Tank U-107 with the installation of equipment — such as this sprinkler assembly — for an upcoming proof-of-concept demonstration on saltcake dissolution.

Pumping out the liquid portion of the waste in Tank U-107 is part of the project — called Interim Stabilization — to move liquids from the aging single-shell tanks to newer, safer double-shell tanks by 2004. Taking out the retrievable liquid reduces the possibility of future tank leaks. In the past, 67 of the 149 single-shell tanks have leaked or are assumed to have leaked approximately a million gallons of highly radioactive and hazardous waste.

“Getting the liquid waste out of these tanks reduces the risk to the groundwater and the Columbia River,” said Dale Allen, CHG senior vice president of Operations.

“We also saw an opportunity to combine this effort with our first field work to demonstrate a new way of removing the remaining solid waste in Hanford tanks,” said Rick Raymond, CHG vice president of Projects.

Removing saltcake

After pumping an estimated 40,000 gallons of liquid waste from Tank U-107, the demonstration — called a proof-of-concept — to remove some of the underlying solid waste, or saltcake, will begin. Saltcake waste, with the consistency of wet beach sand, was created when tank liquids were processed in evaporation facilities over the decades.

The decision to combine equipment installations for both the Interim Stabilization effort and the upcoming proof-of-concept demonstration has reduced project costs and employee time in the field.

“Even though the activities in Tank U-107 are managed under different programs, we’ve worked together to get everything accomplished,” said A.C. Youngblood, Interim Stabilization Program manager for CHG.

“As we support ORP in demonstrating new methods for removing solid waste from the tanks, making sure this work is integrated with ongoing operations at the tank farms is a key part of our effort,” said Ralph Wilson, single-shell tanks project director for CHG.

Tank U-107 contains approximately 408,000 gallons of waste, including an estimated 360,000 gallons of saltcake. This single-shell tank was built in the 200 West Area in 1944 and went into service in 1948. ♦

Interim Stabilization — at a glance

Efforts to move retrievable liquids out of Hanford’s older single-shell tanks into newer, safer double-shell tanks continue to reduce the risk of future tank leaks. Here’s what’s been done:

- 1.3 million of the estimated 3.6 million retrievable gallons have been moved since 1998.
- Pumping of 129 of 149 tanks has been completed (S-109 being the latest).
- Of the 20 tanks left, 19 are covered by a consent decree with the State of Washington that requires completing pumping of these tanks by October 2004.
- Of the 19 remaining “consent decree” tanks, pumping has been started on 11 tanks and remains to be started on eight tanks.

Stay safe at home; install and maintain smoke detectors

Throughout this month the National Fire Protection Association has helped us “Strike Out Fire” by covering our home fire safety bases. We sprinted for first base by learning more about cooking safety. Then we headed for second base with heating safety suggestions. Last week we rounded third base with information on electrical safety. Now we are safe at home with the following home fire safety tips.

- Install at least one smoke detector on every floor of your home, including the basement and in or near every sleeping area.
- Know the sound of your smoke alarms. Newer models feature a universal signal pattern – three beeps followed by a one-and-a-half-second pause.
- Replace batteries in smoke detectors once a year or when the alarm “chirps” to tell you the battery power is low. To help you remember, pick a significant date, such as Jan. 1 or your birthday, to replace the batteries.
- Test all smoke detectors every month and replace any alarms more than 10 years old.
- Consider having an automatic home fire sprinkler system installed.
- Keep combustible materials and flammable liquids away from furnaces, water heaters and other heat sources.
- Have your entire household help develop a home fire escape plan and practice it at least twice a year.
- Know two unobstructed exits (usually a door and a window) from each room in your home. ♦



SNF Project innovations will save \$40 million

Michele Gerber, FH

Through two major changes adopted in September, the Spent Nuclear Fuel Project is projecting savings of \$40 million over the life of the project.

The largest savings, \$31 million, is expected to come from deactivating the K Basins and approximately 50 other project facilities by the end of September 2006 — 10 months earlier than previously scheduled. An additional \$9 million will be saved through a plan to accelerate the capture and removal of sludge.

According to Bob Heck, Fluor Hanford vice president for the SNF Project, the changes in sludge removal and deactivation plans came about logically after FH proposed and won acceptance of major changes in the fuel-removal sequence last spring. In March, 17 SNF Project Tri-Party Agreement milestones were changed, deleted or added to allow transfer of the K East Basin fuel to the K West Basin for processing.

“As a result of the changed fuel-removal strategy, we saw that irradiated fuel would be out of the K East Basin sooner than formerly planned,” said Heck. “We then knew we could get at the sludge and the basin debris and water earlier in that more contaminated facility. This realization suddenly opened up windows and possibilities for creative planning. Our people looked and found ways to optimize available resources in a thoughtful, healthy way that led to these project savings.”

Major deactivation

Deactivation agreements in place call for Fluor Hanford to place essentially all of the facilities in the 100K Area into safe, long-term storage to await final decommissioning in the future. The largest and most complex deactivation work will be needed at the K Basins — especially the more contaminated K East Basin.

In K East Basin, high radiation source terms in the basin floors and walls below the grating may make it necessary to remove portions of the concrete. Core sampling of the concrete to determine specific isotope levels is scheduled to begin in 2002. Once characterization data are obtained, Fluor will begin identifying and acquiring equipment needed to remove concrete safely.

The K West Basin contains hundreds of thousands of pounds of fuel processing equipment and electronics used in fuel packaging and removal operations. Additionally, both basins contain large racks that now hold fuel storage canisters in upright positions. All of these items will go to Hanford's Environmental Restoration Disposal Facility as nuclear “debris,” beginning in late 2004 after fuel, sludge and water have been removed from the basins. Large and small drying equipment in the nearby Cold Vacuum Drying facility also will go to the ERDF beginning in late 2004.

Additionally, FH will deactivate 18 mobile offices, 12 shop or storage buildings, 12 potable and service water facilities and three electrical service facilities in the 100K Area by Sept. 30, 2006.



Equipment such as this in Hanford's K Basins will be handled as nuclear debris after its work is done, eventually ending up in the Environmental Restoration Disposal Facility.

Continued on page 10.

SNF Project innovations will save \$40 million, cont.

“This deactivation workscope is large and complex, since we’ll be dealing with multiple facilities that are more than 50 years old,” explained Bob Suyama, SNF Intra-Site Projects manager for Fluor Hanford. “However, during detailed planning sessions, we’ve found ways to streamline the work.”

The K East and K West Reactors themselves were deactivated shortly after they were shut down in 1970 and 1971. They’re already in Hanford’s decommissioning program.

For all facilities used in the SNF Project in the 100K Area, the deactivation work is expected to cost about \$90 million. “Many of the 100K facilities date from the 1950s and have the familiar problems that reside in older facilities, such as the presence of asbestos and other hazards,” said Suyama. “However, we have developed plans that are economical and efficient. Our cost and schedule projections show that we can get this work done on time between 2002 and 2006. Just ending the SNF Project 10 months sooner than planned saves a substantial amount of money.”

Sludge containers

Savings expected in removing approximately 51 cubic meters of sludge from the K Basins will come from multiple changes. Under previous plans, the sludge going to Hanford’s T Plant for longer-term storage was to be transported in steel containers inside the same casks now used to move Multi-Canister Overpacks to the CVD facility and then to the Canister Storage Building. So the sludge containers had to be narrow enough to fit inside the approximately 4-foot-diameter fuel casks.

Under new plans, much larger high-integrity containers, called HICs, will hold the sludge inside two new and larger transfer casks. The larger containers can function safely because recent data obtained since fuel-removal operations began indicate that sludge from the basin floors and service pits contains lower radiation levels than originally assumed.

“We’ll be making vastly fewer trips with sludge between the K Basins and T Plant in the 200 West Area,” said Jim Crocker, manager of FH Construction Projects for Spent Nuclear Fuel. “Fewer trips mean greatly reduced costs, because transfers are heavily controlled to make sure they are done safely.”

In total, about 100 fewer HICs will be used than the number of sludge containers under previous plans.

Pumping the sludge

Additionally, a new Sludge Water System is being designed to pump both sludge and some of the water out of the K East Basin in a combined manner. A slurry pump will be used in this basin, which contains about 90 percent of the K Basins sludge.

K Basins sludge is a unique, non-homogeneous mixture possibly containing corroded fuel (uranium oxides, hydrates, hydride), cladding pieces, debris such as windblown sand or insects, rack and canister corrosion products, ion exchange resin beads, polychlorinated biphenyls or fission products.

Construction of the Sludge Water System, which is scheduled to be complete next September, eliminates the need for both the Integrated Water Treatment System and the Sludge Loadout System in the K East Basin, thus saving the costs for those two systems. ♦

Picture Pages



HOLDING KOHRT: Carl Kohrt (left), new president and chief executive officer of Battelle, shares a lighthearted moment with Bill Rogers, center, associate laboratory director for Pacific Northwest National Laboratory, and PNNL researcher Paul Ellis. They were in the Nuclear Magnetic Resonance Lab of the Environmental Molecular Sciences Laboratory on a tour of PNNL last week. Battelle, based in Columbus, Ohio, operates PNNL for the Department of Energy. Kohrt joins Battelle after a 29-year career with Kodak.



Flu shot clinics start next week

Here's an updated schedule.

Flu Shot Schedule

Area	Date	Time	Building	Room
100N	Nov. 5	10 a.m.-2 p.m.	1103-N	Conference Room C4
400	Nov. 6	9 a.m.-1 p.m.	4706	Conference Room 302
100KW	Nov. 8	12:30-6:30 p.m.	MO-500	Conference Room East
Battelle	Nov. 9	9 a.m. -3 p.m.	Battelle Auditorium	Lobby
200E	Nov. 12	9 a.m.-3 p.m.	2101-M	Cosmos/Bijou Room
300	Nov. 13	9 a.m.-2 p.m.	3763	Conference Room
200W	Nov. 15	11 a.m.-5 p.m.	MO-287	Conference Room A-111
Battelle	Dec. 3	9 a.m.-3 p.m.	Battelle Auditorium	Lobby
Bechtel	Dec. 4	9 a. m.-1 p.m.	Bechtel Building, 3350 G.W. Way	Assembly Room
Stevens Center	Dec. 5	9 a.m.-3 p.m.	2440 Stevens	Conference Room 1200
Federal Building	Dec. 6	9 a.m.-2 p.m.	825 Jadwin	Auditorium

Regular Features

LETTERS



Employees are invited to write letters of general interest on work-related topics. Anonymous letters will not be printed. We reserve the right to edit letters or not to accept letters for publication. Send your letters to the *Reach*, B3-30, or to *Hanford Reach on e-mail. Letters are limited to 300 words, and must include your name, company, work group and location. Opinions expressed are those of the author and not of DOE-RL, ORP or their contractors.

Morale booster

All Hanford workers seem to be seeking something to boost their morale during these trying times. One way would be to maintain all the Hanford signs around the site. Some of these signs are so bad the paint is peeling off. Can't we afford to refurbish these signs and give them a fresh coat of paint?

It would give the Hanford workforce a sense of pride in their site, and it would look 100 percent better. Let's give the workers and our visitors something to be proud of — the Hanford Site.

Cliff Ledford
Fluor Hanford

SHOEMOBILE



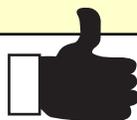
Sound Safety Products

100K _____
parking lot south of MO-401
Nov. 21 7 to 8 a.m. Iron Age

200 East Area _____
northeast gravel parking lot of 2101-M
Nov. 21 9 a.m. to 12:30 p.m. Iron Age

200 West Area
parking lot east of MO-281
Nov. 21 1 to 2:30 p.m. Iron Age

BRAVO



Stewart named Employee of the Quarter at FFTF

The Fast Flux Test Facility recently named Rory Stewart Employee of the Quarter for his high standards and devotion to innovative thinking. Stewart consistently exhibits a wide range of plant knowledge and administrative

procedures in his work as the FFTF Fix-It-Now Team operations engineer. In addition to maintaining his qualifications as an operations engineer, he is also a system expert on a number of FFTF plant systems and the Operations cognizant engineer for the Bottom Loading Transfer Cask.

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Stewart

Stewart is an integral part of the FIN Team, challenging traditional methods in order to produce continuous improvement in the area of effective and efficient corrective maintenance work. The FIN Team completes 40-50 work packages per

month in addition to assisting the shops as necessary on milestone work. Stewart continually works with the Work Control, Operations, Maintenance and Engineering organizations, seeking new ways to allow the FIN Team to operate at maximum flexibility while staying within the bounds of plant integrity.

Stewart recently negotiated a new agreement with the Operations and Maintenance organizations for managing the FIN Team backlog while still contributing to the health of the facility milestone and reducing the scheduling documentation required for those packages. ♦

Regular Features



CALENDAR

NAPM tours Framatome

On Nov. 1 the National Association of Purchasing Management will tour the Framatome ANP plant at 2101 Horn Rapids Road in Richland. The tour begins at 5:30 p.m. After the tour, members will meet at Roundtable Pizza on Torbett in Richland. For information, call Nancy Kenner at 372-7201.

HAB meets Nov. 1-2

The Hanford Advisory Board meets on Nov. 1 from 9 a.m. to 5 p.m. and on Nov. 2 from 8:30 a.m. to 4 p.m. at the Red Lion Hotel in Richland. The public is invited. For information, call Gail McClure 373-5647.

Safety and Health Conference at HAMMER

“Initiatives in Safety and Health for the 21st Century,” a safety and health conference, will take place on Nov. 2 from 8 a.m. to 5 p.m. at the Volpentest HAMMER Training and Education Center. The Lower Columbia Basin Chapter of the American Society of Safety Engineers, the Tri-City Education Committee of the Pacific Northwest Section of the American Industrial Hygiene Association and the Northwest Chapter of the System Safety Society are sponsoring the conference. Attendees will receive 0.7 continuing education credits for the certified safety professional and one point for the certified industrial hygienist maintenance of certifications. Eight quality speakers from our region, plus a nationally known keynote speaker and a HAMMER tour, are planned. The fee is \$85 (\$45 for students).

For more information on registering for the conference, contact one of the following individuals: John Hinckley at 371-4856 or at jhinckley@bechtel.com; Chad Ungerecht at 373-3042 or at chad_r_ungerecht@rl.gov; or James Morse at 371-4897 or at morse.james@worldnet.att.net.

To register, send a check (no money orders) for the fee made payable to “ASSE” and your name, company name, company address, home address, work telephone number and e-mail address to: Regional Safety and Health Conference, Lower Columbia Basin Chapter, ASSE, P.O. Box 1522, Richland, WA 99352. Registration before Nov. 2 is preferred;

however, registrations will be accepted on the day of the conference.

For information about setting up a table or booth at this conference, contact Joseph Samuels at 373-3144 or at Joseph_K_PhD_Samuels@rl.gov.

Nov. 13 AQP meeting

Jamie Cox, director of The Empowerment Group, will share strategies for improving resiliency, leadership and productivity at the Nov. 13 meeting of the local chapter of the Association for Quality and Participation at the Richland Shilo Inn. The networking and social hour begins at 5 p.m., the buffet dinner is at 6 and the presentation starts at 7. The price is \$16 for AQP or ASQ members, \$19 for non-members, or \$5 for the presentation only. Make your reservation by Nov. 8 by calling 547-6548 or register through the chapter’s Web site at <http://www.3-cities.com/~gates/AQPQuest.htm>.

November at the Hanford Technical Library

The following events will take place in room 101R at the Consolidated Information Center, Washington State University Tri-Cities campus:

- **Library Tour** — Thursday, Nov. 1, 8:30 a.m. Take a tour of the library and find out what services are available to you in the library and on your desktop.
- **How to Find Information on the Internet** — Thursday, Nov. 8, noon. Learn how to tunnel through the mountains of information, and discover Internet sites that are useful for your day-to-day work.
- **Physics Information Resources** — Thursday, Nov. 15, noon. Physicists, meteorologists, atmospheric scientists, physical chemists and nuclear scientists, as well as anyone doing physics-related research, will want to know about databases, electronic journals and services available via their desktops from the Hanford Technical Library.

The library staff is also available for presentations at group meetings or brown-bag sessions. For more information, contact Mary Frances Lembo at 372-7441 or at mf.lembo@pnl.gov. Visit the Library’s Web site at <http://library.pnl.gov>. The Hanford Technical Library is a site service operated by Pacific Northwest National Laboratory.

Continued on next page.

Regular Features



C A L E N D A R continued

Native American Heritage Month events

Native American Heritage Month is observed in November, and to celebrate the Department of Energy is sponsoring these activities:

- Alan Cliff, an Assiniboine Mountain Sioux and Cayuse, will make a cultural heritage presentation on Nov. 2 from 10 to 11:30 a.m. in the Federal Building Auditorium.
- Native cuisine food tasting will take place on Nov. 2 from 11:30 a.m. to 1 p.m. in room 142 of the Federal Building.
- The Richland Library will host storytelling on Nov. 7, beginning at 7 p.m. Dr. John Cox, a Cow Creek Umpqua, will be the storyteller.
- An 8-kilometer fun run will be held on Nov. 18 at 1 p.m. at the Big Cross Course in Pasco. Call Ernest at 375-3809 for more details.
- Tri-Cities libraries will feature Native American culture displays throughout the month.

Check upcoming issues of the *Hanford Reach* for more information on additional events. ♦



C L A S S E S

MicroShield course offered at HAMMER Nov. 6-8

Project Enhancement Corporation will conduct a comprehensive training course for users and potential users of MicroShield Nov. 6-8 at the Volpentest HAMMER Training and Education Center. MicroShield software is used for analysis involving gamma and X-ray radiation. The cost is \$950. Call Yvonne Miller at (301) 668-7177 to register.

DOE-RL sponsors training on USQs

The Department of Energy Richland Operations Office will sponsor the Epsilon Unreviewed Safety Ques-

tions class Nov. 13-15 at the Consolidated Information Center at Washington State University Tri-Cities. This course is intended for DOE and DOE contractor personnel who are involved with the preparation, review and approval processes for Unreviewed Safety Questions. The course presents the purpose and terminology specific to the USQ process and the key aspects of the process — specifically the inputs, key steps and outputs. The course incorporates the most recent application and implementation interpretations for this process from DOE Headquarters. The cost of the course is \$843 per person. To register, go to the Parallax Web Page at <http://www.parallax-engr.com> and then to Parallax, Inc. Training Center (DOE Training Administration Office). For more information, call Marcy George at 376-8284.

CBC Small Business Development Center offers:

- **How Good is My Business Idea?** – Nov. 5, 6-9 p.m. Instructor: Bill Henderson. Cost: \$30.
- **The ABCs of Business Start-ups** – Oct. 30, 6-9 p.m. Instructor: Debbie Bone-Harris. Cost: \$25.
- **Considerations in Starting a Minority or HUB Business** – Nov. 15, 6-9 p.m. Instructor: Cruz Gonzalez. Cost: \$25.
- **Records and Bookkeeping** – Nov. 13, 6-9 p.m. Instructor: Ellen Bowman-Fairbanks. Cost \$30.
- **Market Research and Analysis** – Nov. 7, 6-9 p.m. Instructor: Melanie Jones. Cost: \$30.
- **Marketing Your Business** – Nov. 29, 6-9 p.m. Instructor: Melanie Jones. Cost: \$30
- **How Computers Can Help Manage Your Business** – Nov. 20, 6-9:30 p.m. Instructor: Carrel Landess. Cost: \$30. Location: Kennewick Senior Center, 500 S. Auburn, Kennewick.
- **Setting up a Payroll** – Nov. 21, 6-9 p.m. Instructor: Erica Shockley. Cost: \$30.
- **Who Needs Job Descriptions?** – Nov. 8, 6-9 p.m. Instructor: Adele Haar Redburn. Cost: \$30.
- **How to Fund Business Growth** – Nov. 27, 6-9 p.m. Instructor: Jerry Ball. Cost :\$30.
- **Cash Management** – Nov. 1, 6-9 p.m. Instructor: Glynn Lamberson. Cost: \$30.

Unless otherwise noted, all classes will be held at the Tri-City Industrial Development Council at 901 North Colorado, Kennewick. To register or for more information, call 735-6222. ♦

Regular Features



H.anford **E**.mployee **R**.ecreation **O**.rganization

PLEASE MAIL YOUR TICKET REQUESTS TO THE APPROPRIATE LISTED TICKET SELLER — It saves the ticket sellers' time and your tickets will be sent to you the same day.

HRA — Questions about the Hanford Recreation Association should be directed to Denise Prior at 376-2258.

HERO POLICY FOR NSF CHECKS — Associated non-sufficient fund bank fees will be passed on to check issuers. HERO will not absorb the cost.

YAKIMA AREA REPRESENTATIVE — Area representative is needed for Yakima. If you are interested, if your company is part of the Fluor Project Hanford team and if you have your manager's approval, e-mail Phyllis Roha.

HOLIDAY GREETING-CARD CATALOGS — Now available through Employee Printing Services. Books can be checked out from Marvene McChesney (T4-61) or Jan Dickinson (H2-23).

DISCOUNTED MOVIE TICKETS — Limit now 10 per purchase. Carmike tickets are \$4.50 each with restrictions applying only to Sony DDS movies. Regal tickets are \$5 each and applicable restrictions are identified in the *Tri-City Herald* with a star. Yakima Mercy tickets are \$5 each with no restrictions. For Regal or Carmike tickets, send checks made payable to "HERO" to Linda Meigs (H3-12), Linda Sheehan (T4-40), Nancy Zeuge (X3-74), Michelle Brown-Palmore (A7-51) or Patti Boothe (T6-04). For Yakima Mercy tickets, send checks to Flu Garza (T4-01) or Nancy Zeuge (X3-74).

BIG BIRD'S SUNNY DAY CAMP OUT — Nov. 2-4, Tri-Cities Coliseum. On Friday, all seats are \$10 for the 7 p.m. show. Prices for the Saturday (10:30 a.m. and 2 p.m.) and Sunday (2 p.m.) shows are \$18 for floor seating, \$12 for lower Q to Y and \$7 for upper Q to Y. Children and their families are invited to go on a musical camping trip with Big Bird, Elmo, Cookie Monster and the rest of their friends on Sesame Street. They're setting off on a toe-tapping, eye-popping, imagination-grabbing excursion in a Sesame Street Live musical extravaganza. Make checks payable to HERO. Ticket sellers are Linda Meigs (H3-12) and Sheila Kirk (T4-05)

CHILDREN'S HOLIDAY PARTY — Saturday, Dec. 1, from 12 to 4 p.m. at Chief Joseph Middle School cafeteria. This is an "open house" holiday party, so come anytime! Fun for all the kids with games, crafts, door prizes and even get a picture taken with Santa! Tickets will be \$1.50. Ticket sellers to be listed soon on the HERO Web site.

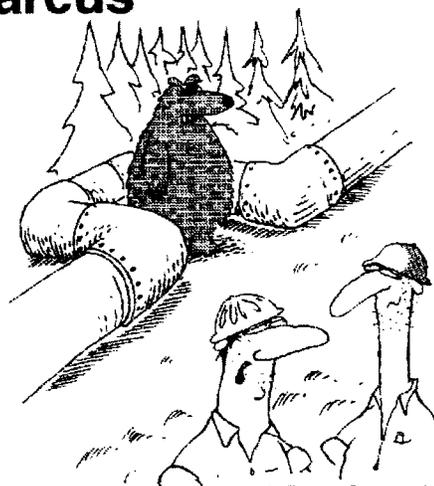
UPCOMING TRIPS

• **Bellevue Square Shopping Trip** — Dec. 7 (an "off" Friday). Join us on this one-day shopping trip to the Bellevue Square Shopping Mall. Snacks and beverages will be provided on the relaxing bus trip. The bus will depart the Federal Building parking lot promptly at 7 a.m. Price is \$25 per person. Make your check payable to HERO, and mail it to Denise Prior (L6-81).

• **Leavenworth Bus Trip** — Join us for the tree lighting in Leavenworth on Dec. 8. The buses will leave the Federal Building parking lot at 7 a.m. and return after the tree lighting. Snacks, drinks and a movie will be provided. A \$27 per person non-refundable deposit is due to reserve your spot. Make checks payable to HERO and mail to Marvene McChesney (T4-61).

• **Fantasy in Lights Cruise on Lake Coeur d'Alene** — Climb aboard the Fun Fleet of Coeur d'Alene Cruises for a holiday tour of the lighted displays, complete with caroling and onboard Christmas treats, all in climate-controlled comfort. Package includes round-trip bus, guest room at the Coeur d'Alene Resort, breakfast and one-hour lake cruise. Depart Saturday morning and stop at the Post Falls Outlet Mall for Christmas shopping, then it's off to Coeur d'Alene for your relaxing evening cruise. There are additional shops close to the resort. Dec. 15-16, \$105 per person based on double occupancy and \$144 per person single occupancy. Payment in full is due at signup to reserve your place on the second bus. E-mail Sheila Kirk. ♦

Farcus



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I wasn't going to ask him to move.

Regular Features



VAN POOLS

Vanpool ads are run for two weeks. Ads must be resubmitted to run in subsequent issues of the Hanford Reach. Day & Zimmermann Protection Technology Hanford reminds employees to wear their badges. For more information, look on the Hanford Web in the Projects and Activities section, Safeguards and Security at <http://www.rl.gov:1050/sas/pg1v3htm>.

KENNEWICK

8x9 vanpool is looking for a replacement primary driver. The van starts at Costco with one pick up at the Federal Building and then drops off at 222-S, West Area Power House and WSCF. Contact **Rampur Viswanath** at 372-1616 or **Dore' Peterson** at 373-1371. 10/29

Van No. 97, 8x9s, has an opening. Picks up at ShopKo at 6 a.m. and at the Federal Building at 6:10 a.m. Drops off at 2750-E and 2704-HV. For information contact **Emilia Salinas** at 373-4228 or 373-1889. 10/22

PASCO

Looking for two or three individuals who would like to form a carpool to 200E. Alternate driving weeks, 8x9s, 7 a.m.-4:30 p.m. shift, meet at central location. Call **Vanessa Cray** at 376-1791 or 543-9790. 10/29

RICHLAND

8x9 vanpool, 7 a.m.-4:30 p.m., to 200E, has an opening. Starts at the Federal Building, picks up along Jadwin and at Hanford Bus Lot. Stops at 274-AW, 2025-EA and 2750-E. Contact **Kip** at 373-7399, **Dave** at 372-3304 or **Mandrake** at 372-0713. 10/29

Ride wanted to PFP from North Richland home, 8x9s, 7 a.m.-4:30 p.m. Will pay \$75 per month. Call **Marilyn** at 375-1594 or 373-0311. 10/29

Vanpool No. 187 is looking for riders. Starts at the Richland Wye, makes a stop at the Federal Building and ends up at PFP. 8x9s, 7 a.m. to 4:30 p.m. Contact **Kim Hosfield** at 373-2632 or **Sandi Gross** at 373-4104. 10/22

Vanpool No. 117 has openings for 8x9 riders to locations inside the 200W Area perimeter fence. Originates near Vacuum City, 1019 Wright Avenue. The 200W Area stops include 217-W (Fab Shops), MO-412, MO-278/MO-279, MO-287 and MO-556 near the Powerhouse intersection and 272-WA, MO-720 and MO-281 near CWC (due west of PFP). Contact **Gary Bush** at 372-2531 or via e-mail. 10/22

WEST RICHLAND

Ride wanted from Flat Top Park to MO-414 in 200E. 8x9s, 7 a.m.-4:30 p.m. shift. Call **Sara Helton** at 376-9253 or 967-7244. 10/29 ♦



Distribution questions:
call the Mailroom, 375-5170

See the *Hanford Reach* on the Web at:
www.Hanford.gov/reach/index.html

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