

REACH



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

Cleanout of 324 Building's B Cell complete

The Department of Energy Richland Operations Office and Fluor Hanford have completed removal of contaminated equipment and debris from B Cell in the 324 Building in Hanford's 300 Area. B Cell is a hot cell — a shielded concrete room where radioactive material is remotely handled.

The three-story-high B Cell with 4-foot-thick concrete walls was considered the largest operating hot cell west of the Mississippi before it ceased operating in 1996. The last of Fluor Hanford's 57 shipments from B Cell was placed in the 200 Area burial grounds on July 18, completing Hanford's most challenging hot-cell cleanup task.

"Removing this equipment and debris from B Cell eliminates a major risk," said Beth Bilson, DOE-RL assistant manager for the River Corridor. "We used innovative techniques and equipment to successfully complete this very complicated task."

Hottest of cells

After years of using B Cell as a storeroom for radioactive junk, DOE estimated that the cell contained nearly 3 million curies of radioactive material. The high radiation levels made the project even more challenging because all equipment removal activities had to be conducted using hot-cell manipulators and other remotely handled devices.

To remove the resulting small equipment debris, workers used a technology new to Hanford — a robotic crawler known as the Dispersible Removal System, or DRS — to help collect and vacuum the loose contaminated debris on the B Cell floor.



The 324 Building's B Cell before...



...and after cleanup.

Continued on page 2.

Cleanout of 324 Building's B Cell complete, cont.

Workers operated the DRS remotely, using TV cameras and looking through 4-foot-thick shielded windows designed to protect them from the high levels of radiation. Once the waste was collected, workers packaged the material into waste containers and shipped the containers to the 200 Area.

"This remarkable achievement was the product of years of effort by a dedicated workforce," said Mal Wright, Fluor Hanford's director of the 324 Building deactivation project. "It didn't come easily. The 324 Building deactivation project workers worked tirelessly, overcoming many technical obstacles, to make this happen."

Forty-five of the 57 containers will ultimately be repackaged and shipped to the Waste Isolation Pilot Plant in New Mexico for final disposal. The remaining 12 containers have been disposed of as low-level waste in Hanford's 200 Area burial grounds.



The 324 Building Deactivation Project team enjoys a barbecue lunch to celebrate completion of B Cell cleanout. In left foreground is Rick Bond of the Washington State Department of Ecology.

More work ahead

The next steps toward 324 Building deactivation include removal of commercial spent nuclear fuel, which is still stored in the 324 Building's Radiochemical Engineering Cell — and, after that, the final cleanup of all four of the radiochemical engineering cells. Subsequently, the remainder of the building will be cleaned up.

Operations in the 324 Building began in 1965. B Cell was originally used for conducting studies on the chemical and physical processing of high-level radioactive materials and the physical characteristics of irradiated materials. Fluor Hanford took over deactivation activities in the 324 Building from the Pacific Northwest National Laboratory in 1996.

Cleanout of B Cell also completes the work associated with an interim Tri-Party Agreement milestone, which required DOE to remove all excess contaminated equipment, debris and loose dispersible materials from B Cell. In March of this year, DOE and Fluor Hanford completed shipping of the loose, dispersible mixed waste from the B Cell cleanout activities. ♦

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DOE donates 1,000 computers to Washington schools

Last Thursday, Aug. 9, U.S. Senator Patty Murray of Washington state joined teachers and representatives of the Department of Energy, the Office of the Superintendent of Public Instruction and the Wilderness Technology Alliance to announce the donation of 1,000 computers to more than 60 schools across Washington state.

Through a partnership with the Wilderness Technology Alliance, students and teachers will refurbish out-of-date systems for their schools and local communities. They will use the computers donated by the Department of Energy to develop Web sites for community organizations and teach low-income adults to use computers, as well as to update systems in schools and community organizations.

Senator Murray introduced legislation in 1996 to allow donations of surplus government computers to help public schools bridge the digital divide. As a member of the Senate Appropriations Committee, she helped secure \$105,000 in fiscal year 2001 to refurbish computers donated to the Wilderness Technology Alliance.

Thirty-four school districts will receive 15 computers each as part of the Hanford donation. Included in our region are the Ellensburg, Granger, Kenne-wick, Wapato, Dayton, Pasco and Wahluke School Districts. ♦

DynCorp-Fluor transition progressing

The transfer of DynCorp Tri-Cities Services workscope to Fluor Hanford is progressing ahead of schedule with the help of a transition team comprising representatives of both companies. Formal job offers have been made to DynCorp employees, and all but a very small number of people know what their jobs will be on Oct. 1.

Managers say Fluor and DynCorp continue to remain closely aligned on the various aspects of the transition process, helping to ensure a seamless changeover at the beginning of the next fiscal year. ♦

ERC Team continues Columbia River corridor work

George Rangel, BHI

Last month, two outfall structures that once released water from B and C Reactors' cooling retention basins into the Columbia River were demolished and removed by Bechtel Hanford and its subcontractor RCI Environmental. The third and final outfall structure will be removed later this month.

The soil, steel and concrete material cleaned up in July near the Columbia River shore were part of a larger project by the Environmental Restoration Contractor to remove nearly 25,000 feet of contaminated effluent pipeline in the 100 B/C Area. The remediation work begun in January at the river's edge will eventually take crews to B and C Reactors. The project is scheduled for completion in 2005.

"There is an immense amount of contaminated material that must be safely transported and permanently disposed of," said Jeff James, Bechtel's project task lead. "Work this close to the Columbia River takes people and equipment that are going to get the job done safely and efficiently to maintain our focus of protecting the river."

Removing the contaminated pipeline and soil is one of the last legs of the ERC team's challenge of restoring a 22-square-mile portion of the Columbia River corridor from the Vernita Bridge to just beyond the 100 B/C Area. Once the pipelines are removed and some future burial ground remediation is completed, the land will be evaluated for alternative use.

Radiological and hazardous-chemical monitoring determined the 58-year-old outfall structures were contaminated and met the waste acceptance criteria for permanent disposal at the Environmental Restoration Disposal Facility. The concrete was contaminated from transporting cooling water for reactor operations, and water that leaked through cracks and mechanical joints contaminated the surrounding soil.

Along with radiological and hazardous chemical monitoring, crews also take daily air samples while constantly hosing down the soil to ensure the working environment meets required air-quality standards. "Our dust-control methods are important for environmental reasons," said Mike Quattro, RCI Environmental's project safety manager. "The measures we take are to prevent potentially contaminated dust from traveling downwind toward the Columbia River or reaching our crews."

With the protection of the Columbia River in mind, silt fences were constructed at the edge of each outfall structure work site to stop runoff soil and water from reaching the river. The two-foot-high silt fences made of plastic netting were reinforced by hay bales to stop any potential runoff in heavy rainfall.

While the three outfall structures are being demolished, their final lengths of steel and concrete piping that extend well into the Columbia River will remain until an appropriate method of removal is developed.

"This project is important because it's what the Environmental Restoration Project is aimed at," said Glenn Goldberg, DOE Environmental Restoration Division project manager. "Remediating waste sites close to the Columbia River is crucial in restoring the site and eliminating the possibility of contamination continuing to harm the river and its resources." ♦



Employees of the Environmental Restoration Contractor team work to remove the last of three contaminated 58-year-old outfall structures in the 100 B/C Area near the Columbia River shore. The three outfall structures released cooling water from B and C Reactors' effluent retention basins into the river.

Two million safe work hours achieved at PFP

Jean McKenna, FH

Employees in the Nuclear Material Stabilization Project at Hanford's Plutonium Finishing Plant have performed two million safe work hours without a day lost to injury. The accomplishment by approximately 500 employees of Fluor Hanford and its subcontractors demonstrates the PFP team's focus on working safely with an extremely challenging workscope.

PFP is considered to be one of the most urgent cleanup challenges on Hanford's central plateau. Before its contaminated buildings can be deactivated and dismantled, 4 tons of plutonium metals, oxides, solutions, residues and polycubes must be converted into a stable form and repackaged for long-term storage. The sheer volume and variety of plutonium forms make PFP one of the most challenging projects at Hanford.

"I am extremely proud of the PFP team's achievement of two million safe work hours," said George W. Jackson, Fluor Hanford vice president for the Nuclear Material Stabilization Project. "PFP is gearing up to apply for OSHA Voluntary Protection Program status in February of next year, and we're using the VPP process on a daily basis to understand any weaknesses and effectively address them."

"We have been able to achieve our two million safe work hours because of our workforce working hand in hand with management at PFP," said Rich Layman, HAMTC safety representative for the Nuclear Stabilization Project. "This partnership is also how we will reach our goal of VPP Gold Star status next year."

The previous record of one million safe hours was set last October. PFP employees have achieved the new record while completing installations and startups and simultaneously operating several state-of-the-art processes for stabilizing and packaging all its forms of plutonium.

The variety of challenging tasks at PFP during the period of this safety accomplishment includes:

- Removing plutonium from solutions using the new Magnesium Hydroxide Precipitation Process. Nearly 600 liters of the 4,000-liter inventory have been processed. Adding a second two-boat hot plate to speed drying of the solids is expected to double the rate of solutions stabilization.
- Packaging plutonium materials into the new DOE 3013 standard containers using the Bagless Transfer System. This system, started up last September, is used to seal plutonium into the inner container of the new



A PFP nuclear chemical operator is shown removing the sealed inner container of plutonium from the Bagless Transfer System after it has been filled with helium and welded. The Outer Can Welder, below, which features a viewing window for monitoring the automatic welding process, welds plutonium packaged in two nested containers into the slightly larger outer container, making up the complete 3013 storage package.



Continued on page 7.

Two million safe work hours achieved at PFP, cont.

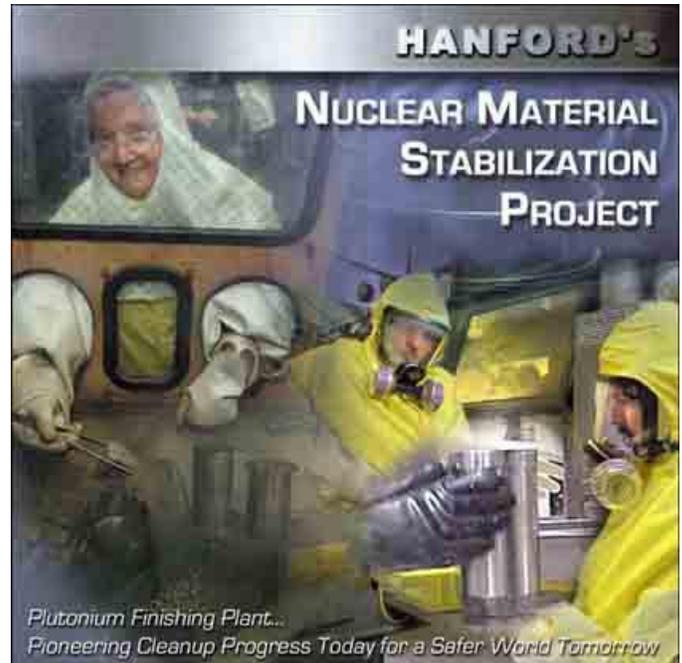
two-container package made of heavy welded stainless steel.

- Startup of the Outer Can Welder this past April, which made Hanford the first DOE site to fully comply with the new DOE 3013 standard for plutonium packaging. With this method, an inner stainless steel container is welded into the outer container. Approximately 300 complete storage packages have now been processed.

- Repackaging various plutonium residues not requiring further stabilization for future shipment to the Waste Isolation Pilot Plant, using a technique called “pipe-and-go” developed at the DOE Rocky Flats Site. This safe and effective technique eliminates unnecessary processing, reduces waste volume and minimizes dose rates to workers.

- Stabilization and packaging of plutonium metals. The metals are brushed, which removes loose rust-like oxides. This leaves a stable metal that is packaged into the new stainless steel containers, and the oxides are stabilized in the muffle furnaces. The PFP staff is working toward completion of metals brushing and packaging, and the stabilization and packaging of the oxides, by an Aug. 31 milestone date.

- Construction of a second stabilization and packaging system — the W460 Project — in the 2736-ZB Building, which is nearing completion. When this system is started up sometime this fall, all the pieces will be in place to complete stabilization and packaging of PFP’s 4 tons of plutonium by the mid-May 2004 milestone. ♦



PFP THE MOVIE: A 10-minute documentary video on the Plutonium Finishing Plant’s Nuclear Material Stabilization Project has just been completed. The video, which is available on a CD as well as on tape, will be used to brief key decision-makers, media representatives, local, state and federal agencies, employees, interest groups and the public on PFP technologies. The technologies that have been brought on line will safely stabilize and package all of the plant’s plutonium forms for ultimate shipment off-site. PFP employees can borrow a CD or VHS tape from their senior managers; other employees on the site should send e-mail to Jean McKenna.

Site-wide exercises prepare Hanford for emergencies

Michael Turner, FH

Some say that those who are most thoroughly prepared for emergencies are those who perform best under duress. The rationale is that, if an individual or group has been prepared through frequent emergency drills, when a real emergency occurs the individual or group will rely on training and operate almost subconsciously. They will block out any feelings of panic and focus completely on the job at hand.

This is why the Department of Energy Richland Operations Office, the Office of River Protection and Hanford contractors conduct emergency preparedness drills regularly involving various organizations and facilities on site.

In addition to these frequent drills, Hanford's Emergency Preparedness group conducts a full-scale, site-wide emergency exercise each year, featuring scenarios designed to involve facility emergency response organizations, other field personnel and representatives of several off-site agencies.

The annual exercise takes months to plan and is built around a fictional catastrophic event taking place at a facility on site, with an accompanying "plot" that plays out over the course of an entire day.

The goal is to assess how personnel react in a crisis and test everything from fire and rescue response to how the site's communications specialists deal with hordes of actors playing the roles of reporters, concerned citizens and employees.

Emphasis is placed on carrying out the exercise in a safe manner. Safety considerations include high temperatures and the deployment of large emergency response equipment.

After the facility declares the emergency, the scenario continues with the Patrol Operations Center implementing protective actions at and around the event scene. The Occurrence Notification Center notifies off-site agencies, and the Emergency Operations Center, or EOC, in the basement of the Federal Building is activated.

Inside the EOC, people staff telephones and capture the latest data from the event scene on large computer screens. At the same time, the Joint Information Center, or JIC, the communications center of the EOC, begins operations to alert and update Hanford employees, the media, the public

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A "doctored" photo of an imaginary tornado lends realism to an emergency exercise.

How to respond to a Hanford emergency

If you discover an emergency, such as a fire, leak, spill, medical emergency or transportation accident, call 911 from all phones on the Hanford Site — or, if you're using a cellular telephone, call 373-3800 for the Patrol Operations Center.

Provide the following:

- The nature of the emergency
- The location
- Your name
- A call-back number

Do not hang up until you're instructed to do so. Remain a safe distance from the scene, but near enough to direct a crew to the emergency.

In addition, report all adverse conditions to your manager immediately. If you're unsure or don't know the proper response to an on-site emergency, ask your manager. Safety is everyone's responsibility, but managers and supervisors have additional responsibilities for protecting the health and safety of their employees in both normal and emergency situations.

Site-wide exercises prepare Hanford for emergencies, cont.

and off-site agencies. While all of this action takes place, evaluators assess responder performance while logging their observations.

Other observers

Other independent observers are also invited to witness the drill. In this year's exercise, held June 21, observers included members of Japan's Nuclear Energy Cabinet, along with their equivalent of our Secretary of Energy. Also present were members of the Fort Lewis Army National Guard and the Defense Nuclear Facilities Safety Board.

Information continues coming in from the event scene. In this case the accident scenario entails a fire, possibly two, at the Waste Encapsulation and Storage Facility. There is word of injuries as well.

Throughout the day, as information comes in, it becomes apparent there were two fires, an injury and a fatality. Although it's an unpleasant thought, a fatality is always a possibility in an industrial accidents.

Because of that possibility, the Franklin County Coroner is a participant in the exercise, along with a score of medical personnel.

By mid-day, the event status is officially upgraded because of the severity of the accident and airborne radiological releases. The upgraded status, in turn, means a mandatory, precautionary evacuation of Columbia River traffic from the Vernita Bridge to Leslie Groves Park in Richland.

Local county emergency management officials stationed in the EOC have the responsibility of communicating with their EOCs regarding affected off-site populations.

Detailed, realistic

Every detail of the exercise accident scenario has been thought out — even the production of mock photos from the accident scene. The exercise also includes at least one news conference featuring actors portraying reporters and questioning the spokespersons for DOE, the site contractors and off-site agencies.

Another feature tested during this year's exercise was the first-time use of live video streaming from the accident scene via the Internet. "The use of real-time video will greatly enhance the ability of those coping with an emergency," said Guy Schein of the DOE-RL Office of Intergovernmental, Public and Institutional Affairs. "A wall-sized display of the accident being projected via a computer screen in the EOC will enable our EOC responders to visualize much more rapidly the event scene and provide more timely information to the public and the media." The video streaming trial was a success, according to Schein, and the intent is to have it available next fiscal year.

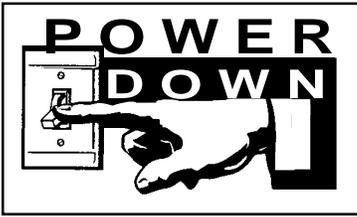
After the exercise was officially terminated, site Emergency Preparedness staff members began compiling exercise evaluation information to use as part of the official report and a lessons-learned document. According to the exercise report, noteworthy practices included the safe conduct of this very complex exercise; event scene responders promptly recognizing event indicators that led to timely declaration of the emergency; and teamwork and good drillmanship demonstrated at all locations throughout the exercise.

Gary Loicano, acting director of DOE-RL Security and Emergency Services, complimented the emergency response staff members for their use of procedures and their commitment, dedication and teamwork. ♦



In the June 21 site-wide emergency exercise, this composite photo was used to show emergency responders and the actors who portrayed reporters what the simulated emergency was all about.

President orders agencies to buy energy-efficient products



On July 31, President George W. Bush signed an executive order requiring federal agencies to purchase appliances — including computer equipment, cell phones and copy machines — that meet a one-watt energy efficiency standard in standby or “sleep” mode. Standby power enables devices to turn on quickly or to maintain memory.

The order is part of the administration’s efforts to make the government more energy efficient. “One of the ways that our nation wastes energy is through what they call vampire devices,” Bush said. “These will be a battery charger, cell phone chargers, computer systems that we really think [are] not using energy when plugged in but, in fact, are. And so we’ve set what we call a 1-watt standard throughout the federal government, that we expect our agencies to be ridding themselves of the vampires and using energy conservation devices.”

Dave Kelly, who oversees Fluor Hanford’s energy efficiency efforts for the site, said no mandatory action should be taken until formal contract direction is received. But he added that it’s important to be aware of the “resting” power usage of appliances and other electric devices.

Significant power savings can be realized, according to Kelly, by shutting off unneeded devices that have high electrical usage when in rest or standby mode. He advises researching the resting power requirements of new devices before procuring computers and other electronic devices. ♦

Picture Pages



ROBOTICS ADVENTURE: Theresa Quezada (far left), coordinator of Fluor Hanford's Education Outreach program, helps middle-schooler Warren Sogg with a mini-robot designed by Hanford engineers. In two one-week summer sessions at the Columbia River Exhibition of History, Science and Technology, 5th, 6th and 7th graders learned about robotics technology and its practical uses. In the photo at right are students Britanay Bond — operating a tabletop grapppler — Daniel Clark and Kelley Hostetler. In the background is junior counselor Amanda Boomer.

DOE evaluating FFTF medical isotope proposal

The Department of Energy has begun a 60-day review of one expression of interest in using the Fast Flux Test Facility to produce isotopes for medicine, research and industrial applications.

A review and report on options for reactor restart or shutdown was commissioned by Secretary of Energy Spencer Abraham in April. The final report was submitted on July 27 by Mike Holland, director of the review team.

Based on the review of all options and the expressions of commercial interest, the review team concluded that one submittal provides new information worthy of further consideration for potential commercial use of the FFTF and other surplus Hanford facilities such as the Fuels and Materials Examination Facility for the production of medical and industrial isotopes.

A working group that includes DOE's real property and procurement specialists and legal counsel will evaluate the proposal by the end of September. The Secretary of Energy will then decide whether to pursue disposition of the FFTF for commercial use or move ahead with facility deactivation.

The final report forwarded to the Secretary includes a summary of 20 existing studies, reports, assessments of need and environmental reviews that have been done. They provide background information about isotope production, plutonium and tritium production, nonproliferation programs, research and development, Hanford Site waste cleanup and Hanford stakeholder input regarding the FFTF.

The FFTF was shut down in 1992, and its nuclear fuel was removed. The reactor is currently maintained in a safe standby condition. ♦



MACTEC employee Bill O'Neil likes to build his own aircraft. He built the plane pictured above and flew it to Oshkosh, Wis., where it took high honors for workmanship at Airventure 2001.



Hanford employee honored for results of unusual hobby

Hanford's Bill O'Neil has a high-flying hobby that can really take off!

Since May 23, when he flight-tested his new hand-built aircraft, O'Neil has been giving it the finishing touches and preparing to enter it in the Experimental Aircraft Association's Airventure 2001 in Oshkosh, Wis.

Airventure is an annual fly-in. This year, it drew more than 10,000 aircraft and 750,000 visitors from all over the world, giving credence to the Oshkosh tower's claim of being the world's busiest airport — for one week a year! Three thousand of the visiting planes were entered in various Airventure competitions.

O'Neil's blue-and-white aircraft, designated N204BL and named "Checkmate," is a Glasair II -S-RG which required six-and-a-half years and more than 5,000 hours to build. The plane has been flown at speeds exceeding 220 miles per hour. This was the second plane O'Neil has built.

O'Neil flew out of Pasco on his way to Oshkosh on July 21. In McCall, Idaho, he picked up friend and fellow traveler Rob Wilson, who had helped to build the plane's electrical system. The men arrived in OshKosh on schedule despite encountering bad weather in the Midwest.

On July 29, O'Neil was awarded "Outstanding Workmanship for a kit-built airplane" by Airventure judges.

O'Neil doesn't think he'll be going back to Airventure anytime soon. "There is no way to top this experience," he said. "This chapter is over, but the next one will be flying and enjoying the benefits of a very fast airplane."

"There is a comfort flying a plane you built yourself," O'Neil said. "You've been all over every part."

O'Neil works for MACTEC and is the Change Control administrator for Fluor Hanford. He assists the projects with Baseline Change Requests and facilitates the FH Change Control Board, which is now part of the Resource Management Board. ♦

Hanford pioneers take one more tour of 'home'

Connie Eckard, FH

"You can't go home again," wrote Thomas Wolfe.

Actually, the surviving former residents of Hanford and White Bluffs *can* go home again — but only on one weekend a year. And then it's only a brief car ride or bus tour of the home sites that were swallowed up to prepare for the wartime production of plutonium.

The weekend of Aug. 3-5 was billed as the 58th reunion of these White Bluffs and Hanford pioneers. But that's the number of years they've been former residents, not the number of years they've actually been getting together for reunions and tours. It was 25 years before non-employees were allowed back to visit on what is now the Hanford Site.

This year, the Saturday bus tour of the site included almost as many children and grandchildren as it did former residents of the area. These descendants were there to connect with a past they have only heard about in countless stories.

Many of the same people show up each year for this weekend of reminiscing and storytelling about the days before the government condemned their homes and sent them packing in the spring of 1943. Those old enough to remember where the farms were in the area are now in their 70s and crowding 80.

The accuracy of their memories borders on uncanny. The bank is the only structure still standing in White Bluffs, but when the Saturday tour bus stopped south of the railroad tracks and Route 2, Elroy Wiehl provided the riders with a virtual walk down Main Street of the long-vanished townsite.

He recalled the dentist's office across from the bank as well as Keller's Tavern, Shuster's Meat Market, the Wilkinson Telephone Company and the offices of the *White Bluffs Spokesman*. Silent movies were shown at Liberty Hall. And when dances were held, the old car seats were moved back against the wall and an orchestra provided music from the stage.

A banner at the Shilo Inn notes the 58 years that have passed since Hanford and White Bluffs residents were forced from their homes.



During a break from their bus tour, descendants of White Bluffs residents check the city map at the old townsite. From the left are Karen Roberts, Gaynet Sutton, Bernie Sutton and Kathleen Hitchcock.



Continued on page 15.

Hanford pioneers take one more tour of 'home', cont.

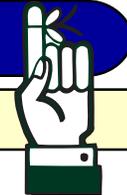
A railroad siding is still there. Gone, however, are the lumber company, train station and ice plant, where residents brought fruit from their orchards to be iced for shipment to market. And the fruits of their labors were taken to be deposited in the bank building down the street, the lone landmark now standing in silent reminder that this was once a thriving, prosperous community.

It was a community that gave up everything for a secret project that ultimately brought an end to the war — everything, that is, but the memories. ♦



Walt Grisham, left, Alene Clarke and Don Skelton share stories of what it was like growing up in farm country along the Columbia River.

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.

CALENDAR

NMA talent night scheduled for Aug. 16

Join the Hanford Chapter of the National Management Association as it hosts a family talent night Aug. 16 in the Battelle Auditorium. The evening begins with a 15-minute business meeting announcing July and August Super Heroes at 6:30 p.m. All past and present Hanford NMA members are invited to attend.

Recovers badge

I want to thank the person who took time on July 31 to pull off Highway 240 and pick up my badge.

I was about to get a temporary badge when I learned someone had dropped my badge off at the checkpoint.

I didn't see you, but thanks again.

Richard Freeland
Fluor Hanford

NEWSBRIEFS



Recycle your transparencies

Did you know that most overhead transparencies are made from Type 1 polyester, the same material that soda bottles are made from? That means that transparencies can be recycled.

Unfortunately, transparencies are not accepted by most recycling centers. Over 15 million pounds of polyester from transparencies are dumped into landfills each year. The 3M Corporation recognized this problem and started a recycling program for its own transparencies. 3M also accepts transparencies for recycling from other organizations and individuals.

Upon their arrival at 3M, the transparencies are shredded to ensure confidentiality. The shredded material is then converted to fiberfill that is used to make carpets, office chairs, insulating products, automotive products and more transparencies.

If you have transparencies you would like to recycle, send them to

3M Recycle Program
C/O Gemark 99 Stevens Lane
Exeter, PA 18643.

At Hanford, several organizations participate in the transparency recycling program. This pollution prevention activity helps reduce the amount of unnecessary waste going to landfills. On site, send the transparencies to Dionetta Freeman, A0-25, or directly to 3M. ♦

PNNL workshop for entrepreneurs Aug. 30

Pacific Northwest National Laboratory will host the workshop, "Rainmaking in a Capital Drought: Everything You Need to Know About Raising Capital in this Dry Climate," on Thursday, Aug. 30, from 8 a.m. to 5 p.m. at PNNL in Richland. This workshop will give entrepreneurs the practical knowledge necessary to assess, structure, position and present their ventures to maximize their opportunities for receiving equity financing. Three equity experts from Seattle will lead the workshop. The cost is \$30 and includes lunch. Space is limited and entrepreneurs will be given preference. For more information, visit the Web site at <http://www.pnl.gov/edo/rainmaking.stm> or contact Gary Spanner at 372-4296 or gary.spanner@pnl.gov. Register by Aug. 22 by contacting Gracie Downard at 375-2803 or gracie.downard@pnl.gov.

Learning Landscape Child Care Center openings

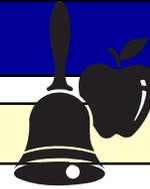
The Department of Energy-sponsored Learning Landscape Child Care Center has openings in the pre-school room for children 3-5 years old. Contact Sharon or Suzanne at 946-4609 to enroll or obtain more information about the center. The center offers an educational curriculum for infants, toddlers and preschoolers.

NAPM holds meeting on Sept. 6

The Sept. 6 meeting of the National Association of Purchasing Management will feature Bill Craven, the Northwest regional manager for Audit, Compliance and Business Ethics for Bechtel National, Inc. The meeting will be held at the WestCoast Hotel in Kennewick. The educational workshop begins at 5 p.m., the social at 6, and the dinner and program at 6:30. The cost is \$14.50. Call 372-7201 for reservations. ♦

Regular Features

C L A S S E S



Continuing Training offered at HAMMER

The Volpentest HAMMER Training and Education Center offers Continuing Training Offering Plan sessions regularly. There is no charge for participation in the sessions, but students must register in advance. Register online at <http://www.rl.gov/trs/ctop/ctop.htm>. Click on the selected session and complete the registration form, or send an e-mail message to Vikki Ballew with student name, Hanford identification number, organization name (not code), company name, session date and session title. Upcoming sessions include:

- **Integrated Training Electronic Matrix (ITEM)** – Aug. 21 and Dec. 5, 7:30 a.m. in room 16. ITEM is the site-wide program for tracking training requirements. This session includes a general overview of ITEM, discusses how to access various reports and provides an explanation of the role instructional staff members may play in providing input that feeds into the system.
- **Applying the SAT Model to Driver Performance Improvements** – Aug. 23, 7:30 a.m. in room 12. This session identifies the processes involved in developing training activities using the DOE Systematic Approach to Training (SAT) Model as described in DOE-HDBK-1078-94 and prescribed in DOE Order 5480.2A.
- **Dealing with Training Disrupters** – Sept. 5, 7:30 a.m. in room 12. This session covers types of classroom distractions, student motives, what actions are allowed, prevention methods and class-solicited recommendations.
- **S/RIDs: What They Are and How They Apply to Training Activities** – Sept. 12, 7:30 a.m. in rooms 18 and 19. This session will provide a history and overview of standards/requirements identification documents as they apply to the Project Hanford Management Contract.
- **A Hands-on Approach to Procedure Process Training** – Oct. 17, 7:30 a.m. in room 11. This interactive session provides an example of how one organization used a novel approach to provide procedure compliance expectations training.

Introduction to statistical process control on Aug. 20

The August session of the Hanford Performance Indicator Forum will be held Aug. 20, 7:30-9:30 a.m. or 2:30-4:30 p.m. at HAMMER in administration room 14. The session will provide an introduction to control charting (Statistical Process Control) including the following topics: SPC fundamentals, how to respond to a trend detected on a control chart, how to use Pareto charts in conjunction with control charts and Fluor Hanford trending procedure requirements. The session is free. Contact Steve Prevette at 373-9371 for more informati

Safety classes offered at HAMMER

- D2000 Safety Solutions will offer the classes listed below at the Volpentest HAMMER Training and Education Center. All classes qualify for Continuing Education Units.
- **Confined Space Rescue** – Aug. 23-25. Cost is \$695. The course is designed to meet the requirements of the OSHA standard 29 CFR 1910.146. Participants are taught to recognize confined space hazards, assess potential hazards during a mock rescue and learn the requirements of the new laws.
 - **Trench Rescue** – Sept. 5-7. Cost is \$695. The course is designed for individuals or organizations that provide trench rescue services. Subjects include scene assessment and safety; team organization; emergency shoring using speed shores, screw jacks and lumber; patient packaging, ropes and related equipment; and mechanical advantage systems. Scenario-based exercises will measure student competency.
 - **Confined Space Train the Trainer** – Oct. 2-5. Cost is \$695. The course covers the OSHA standard 29 CFR 1910.146. The course focuses on tunnels, sewers, boilers and other spaces adequate in size and configuration for employee entry, with limited means of egress and not designed for continuous employee occupancy. Hands-on scenarios are also included. Students will conduct actual confined-space entries.

Continued on page 18.



Regular Features

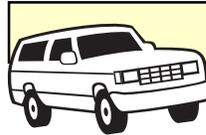
C L A S S E S, cont.

To register for any of these courses, contact D2000 Safety Solutions at (800) 551-8763 or visit the Web site, www.d2000ss.com.

Washington State University Tri-Cities will offer

- **Statistical Methods for Management** (Decision Science 412) – Tuesdays and Thursdays, 4:15-5:30 p.m., 3 credits. The course covers analysis of variance, regression models and non-parametric statistics as applied to business.
- **Principles of Management and Organization** (Management 301) – Tuesdays and Thursdays, 1:30-2:45 p.m. or 5:45-7 p.m., 3 credits. The course covers principles of management and administration aimed at improving the effectiveness of all types of organizations.
- **Personnel and Human Resources Management** (Management 450) – Tuesdays and Thursdays, 7:15-8:30 p.m., 3 credits. The course covers policy and practice in human resource utilization; selecting, training, motivating, evaluating and compensating employees; labor relations and equal employment opportunity legislation.
- **Database Management Systems** (Management Information Systems 372) – Tuesdays and Thursdays, 5:45-7 p.m., 3 credits. The course covers database management systems and non-procedural languages, principles of file design and optimization.
- **Electronic Commerce and the Internet** (Management Information Systems 375) – Mondays and Wednesdays, 5:45-7 p.m., 3 credits. The course covers capabilities of the Internet to support and enable electronic commerce, effective design and implementation, and managerial issues.

Fall semester classes start Aug. 27 and run through Dec. 15. To sign up for any of these classes, call the registrar's office at 372-7350 or check the WSU Tri-Cities home page at www.tricity.wsu.edu and follow the "Apply now" link. Once you have been admitted, you may register for classes by calling 372-7250 or online using the University's METRO service at www.metro.wsu.edu. If you have questions about the courses, call the Business Department at 372-7360. ♦



V A N P O O L S

Vanpool ads are run for two weeks. Ads must be resubmitted to run in subsequent issues of the *Hanford Reach*. The deadline for submissions is Thursday, 10 days prior to publication.

Day & Zimmermann Protection Technology Hanford reminds employees to wear their badges. Vanpool and carpool drivers are responsible for ensuring riders are badged. If a passenger forgets his or her badge, Patrol must be informed at the barricades. 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

Excellent opportunity! Ride in comfort and peace. Stop fretting about wear and tear on your car. Opening in vanpool from Richland Wye Park 'n Ride to 200W. Call **Fred Sargent** at 373-2106. Discount for drivers. 8/6

Riders needed for vanpool leaving Kennewick Albertson's at 6 a.m. with one stop at Chief Joseph Middle School in Richland. Drops off at 222S, PFP and fab shop area. Ridership low for comfort. Contact **Leann Spurlock** at 376-8703. 8/6

PASCO

Vanpool No. 139 to 200E and 200W needs riders, 8x9, 7 a.m. to 4:30 p.m. Picks up at Road 100 Sleep Inn and at Federal Building. Contact **Robert Spears** at 372-0984 or **Sarah Larinaga** at 372-2826. 8/13

WEST RICHLAND

Vanpool No. 120 to 200E needs one 8x9 rider. Leaves Flat Top Park at 6:10 a.m. Drops off at 2750-E, WESF, 2727 and 2025-EA. Contact **Marion** at 372-0383. 8/6

YAKIMA

Two openings for vanpool riders to 200W, 8x9. Picks up in Yakima at 40th Ave. Bi-Mart only. Contact **Ed Boettcher** at 373-4345. 8/13 ♦



Employee Activities

H.E.R.O.

AREA REPRESENTATIVES AND SECRETARY NEEDED

— Area representatives are needed for the 600/400 Area and Yakima. The position of secretary to the HERO Board is also open. 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. ♦

Regular Features



WORKING SOLUTIONS

Finding Your Passions in Life

You say you've got the blahs? The zing seems to have evaporated from your life? Sounds like you could use a little jolt of energy, fun, passion!

Working Solutions has some great articles that can help you kick your life up a notch:

- Focusing on Fun
- Exploring and Reviving Creativity
- Catch Up on the Classics
- What Color is Your Retirement Parachute?

To access the Information

Don't forget to browse our extensive online library of articles on the Working Solutions Web site at www.todayslife.com. Your PIN is 5161.

To access the packet of articles, click on "Check out our Monthly Theme" or click on the Newsletter button in the menu bar at the top of the page.

You can also get your free "Finding Your Passions in Life" articles by:

- Calling the automated Materials Request Line at (877) 318-9400
- E-mailing information on the form below to articles@wsi-or.com
- Mailing the form below to

Working Solutions
9700 SW Capitol Hwy., Ste 200
Portland, OR 97219.

YES!

Please send me the FREE "Finding Your Passions in Life" packet.

Name _____

E-mail _____

Home Address _____ City _____

State _____ Zip _____

Home Phone _____

Work Phone _____

Employer _____

Worksite _____

Working Solutions provides free and confidential counseling, resources, referrals and educational materials through Hanford Family Care Services to help employees and family members meet the demands of life and work.