

SITELINES

Issue 110 October 2005

A publication for all members of the NNSA/NSO family

Contents

Remote Sensing Laboratory Responds to Hurricane Katrina	1
Six Million and Counting	1
NNSA/NSO and BN/RSL Celebrate Aviation Awards	2
Weapons Accident Simulated Down to Last Detail	3
NTS Firefighters Think Outside the Box	3
Contracting Team Cleans Up Unexploded Ordnance at the NTS	4
Bechtel Nevada Recognizes Outstanding Technical Achievement	5
Patty Hartig Goes Above and Beyond	5
Partnering for Education	6
Site Safety Culture Enhanced by Lessons Learned	7
Have Your Family Disaster Plan Ready	7
Occupational Medicine Focuses on Breast Cancer	8
Environmentally Preferable Purchasing	8
Milestones	9
Calendar	10

Remote Sensing Laboratory Responds to Hurricane Katrina

by Cheryl Oar

The U.S. Department of Energy National Nuclear Security Administration's (DOE/NNSA) Remote Sensing Laboratory (RSL) has a long history of providing support to national and international emergencies.

The recovery efforts for Hurricane Katrina initiated yet another call for assistance.

First, a request was made to provide communications for the Strategic Petroleum Reserve (SPR) and then a request was made for an aerial radiological survey of the city of New Orleans and surrounding areas.

Rear Admiral Joe Krol, associate administrator for Emergency Operations, DOE/NNSA stated, "We have been developing a portable version of the Department's emergency communications network (ECN) that all of our deployable assets can use in the field to communicate with the weapons laboratories for support. We were scheduled to roll out the first unit for test this fall. When Hurricane Katrina struck, we offered three units to SPR to support their activity and sent the equipment and support technicians to them. Our equipment worked great and gave SPR the ability to communicate locally and across the complex, despite the lack of power and cell phone support in the immediate area of the storm. **Bob Jordan, Kurt Mickus,** and their team deserve the credit for this successful endeavor."

Communications for the Strategic Petroleum Reserve

At the request of DOE/NNSA, RSL provided state-of-the-art mobile communications packages and personnel

in support of the recovery efforts to address the devastation caused by Hurricane Katrina. Engineers at RSL have developed the deployable emergency communica-



Top: Joe Hassen, Hans Devouassoux, and Chris Engebretsen from RSL prepare the satellite equipment for deployment to the Gulf Region.

Bottom: The RSL aerial survey crew observes the devastation of Hurricane Katrina as they overfly the area to look for industrial and medical radiological sources that may have been displaced by the storm.

tion systems that use secure satellite protocols to provide data, video, and voice communications.

RSL personnel and equipment departed on September 2 from Nellis Air Force Base in Las Vegas to Big Hill,

continued on page 2

Six Million and Counting ...

Bechtel Nevada set a significant safety record recently by exceeding six million work hours without a lost workday case. The company recorded its last lost workday case Aug. 16, 2004. Bechtel Nevada maintains the best safety record of any contractor in Nevada Test Site history.

"This major milestone demonstrates how the Bechtel Nevada workforce is truly the best in class," said **Dr. James E. Powell**, president and general manager of Bechtel Nevada. "As we move toward seven million hours without a lost time incident, our goal is zero accidents...no compromise."

Recently, an employee took the initiative and proper corrective action to keep the Nevada Test Site and its workers safe. While driving by a work site, he noticed an individual executing an unsafe act while fixing a drill rig. The person, who was not harnessed, was standing on a palette about 10 feet off the ground that was being hoisted into the air with a forklift.

"This person was using improper equipment and it was illegal for him to be on a palette unsecured," explained **Ed Erwin**, a Bechtel Nevada safety representative for construction at the NTS. Ed immediately notified Assistant Superintendent **Mike Levine**, who then notified Stoller-Navarro, the company that had sub-contracted the individual to do the drill work. Within minutes, a representative of Stoller-Navarro got the person off the forklift and made sure he had the proper equipment to execute the job.

In addition, appropriate action was taken by Site management to ensure that subcontractors are aware of and have access to the appropriate equipment for every job.

"It doesn't matter who it is, if it's an unsafe act, we ask people to correct it immediately," said Levine. "In this case, that's exactly what happened."

Hurricane Katrina

continued from page 1

near Beaumont, Texas, which had been established as an Emergency Operations Center for SPR. Within two hours of arrival at the site, initial voice and video communications had been established to the executive team room at DOE/HQ and the Network Operations Center at the RSL. Limited and jammed phone lines were relieved as VOIP (Voice Over Internet Protocol) phones were quickly connected to the satellite.

On September 3, a second deployable communications system and personnel were deployed to the Bayou Choctaw site near Baton Rouge, La.. The Bayou Choctaw site handles the contracts for the buying and selling of oil for SPR. VOIP phones, video, and data connections were installed at the Bayou Choctaw location to facilitate oil logistics.

Later, DOE/HQ requested an additional mobile communications system to be provided to the SPR staff for the Re-entry Emergency Operations Center, located at the Marriott Hotel in Baton Rouge, La. Additional equipment was shipped from RSL Nellis and RSL personnel were deployed to Baton Rouge to set up the third system.

Kurt Mickus, Deputy Director/ECN Program Manager, Office of Emergency Operations Support said: "In my four years as ECN Program Manager, the support to SPR with our mobile ECN kits is definitely one of the best highlights of what we as a team have accomplished. Kudos to all who participated."

Aerial Radiological Survey for the State of Louisiana

On September 6, the Louisiana Department of Environmental Quality requested an aerial radiological survey of the greater New Orleans area to search for



Dave Lunder and Hans Devouassoux examine the portable satellite dish set up at the Big Hill Strategic Petroleum Reserve site.

the presence of large radiological sources that may have been displaced by the storm, flooding, or looting. The survey was requested to assess the conditions of NRC-licensed sources that could represent a hazard to emergency responders or members of the public.

An Aerial Measuring System (AMS)--consisting of two Beechcraft B-200 fixed wing aircraft, aerial measurement instrumentation, and technical personnel--was dispatched from RSL Nellis and Andrews to fly over the City of New Orleans and areas surrounding Lake Ponchartrain, Bogalusa, and the Pearl River.

Personnel and equipment from RSL Nellis and Andrews were deployed. Operating out of the Bob Sikes Airport in Crestview, Fla., the aircraft flew the survey at 1,000 feet above ground covering a 975-square-mile area. The radiological survey team looked for large industrial and medical radiography sources. The team completed the mission on September 13 and no immediate radiological hazards were identified.

Dave Bowman, NNSA-HQ Consequence Management Program manager, reflected on the results of the survey stating "I talked with the State of Louisiana and they are very pleased with the data and the manner in which it was made available to them. This mission illustrates the ideal way that field elements and headquarters can integrate to process (radiological) data."

NNSA/NSO and BN/RSL Celebrate Aviation Awards

by Cheryl Oar

The Aviation Program at the Remote Sensing Laboratory (RSL) has twice as much to celebrate these days.

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO) Aviation Program was awarded top honors by both the U.S. Department of Energy (DOE) and the U.S. General Services Administration (GSA).

"Recently, I learned that the Nevada Site Office/Bechtel Aviation Program was selected as the winner of the 2004 GSA Federal Aviation Program Award for the best aviation program in the small operation category," said **Linton Brooks**, administrator, National Nuclear Security Administration. "This is the third year in a row that a DOE aviation organization has won the Federal Aviation Program Award. I congratulate the Nevada aviation team for their accomplishments."

General Robert Jenkins presented the awards at the DOE Annual Aviation Operations and Safety Workshop at Dobbins Air Force Base in Georgia on July 21, 2005. These are the highest aviation awards that can be bestowed upon a program by the DOE Office of Aviation Management.

Joe Ginanni of the NNSA/NSO, and Tony Shoemaker, RSL, Bechtel Nevada (BN), manage the Aviation Program. Ginanni received the DOE Aviation Program Manager of the Year award for the second time in two years. The winner is judged to have made the most outstanding management contributions to the safety, efficiency, and effectiveness of one or more aspects of a federal flight program. Ginanni was presented with a trophy, a monetary award, and his name will be engraved on a permanent traveling trophy.

"I attribute this success to five years of hard work by the federal side, the contractors, the pilots, the mechanics, and the administrative staff," said Ginanni.

Deborah Monette, assistant manager, National Security, NNSA/NSO, was also delighted that Ginanni won the Aviation Program Manager of the Year award from DOE for the past two years. "Joe's leadership and an outstanding RSL Aviation Team clearly are a winning combination," said Monette. "The recognition of excellence at both the DOE and federal levels are confirmation of an excellent aviation program and a great team."

The RSL aviation program received the DOE Aviation Program of the Year Award for the first time. DOE annually presents this award and a 'traveling' trophy, to the best overall Aviation Program. A panel of independent aviation

experts evaluated the nominees for overall excellence and innovative achievement during 2004.

Then on September 22, the GSA presented to NNSA/NSO the Federal Aviation Program Award for Small Programs (under 20 aircraft) at the Fifth Annual Federal Aviation Awards Ceremony in Washington, D.C. The awards honor the safest, most efficient and effective Federal aviation operations. This is the first time that NNSA/NSO has won the federal award.

James E. Powell, President and General Manager of Bechtel Nevada, stated, "I am pleased to see the NNSA/NSO and BN Aviation Program recognized at both the DOE and government-wide levels. My congratulations to the aviation team, who has set the bar high for the rest of us."

The RSL Aviation team includes: **Tony Shoemaker, Manuel Avaro, Kathy Banninger, John Brown, Dave Butler, Gary Butler, Shawn Cadwell, William Colucci, Joe Cummings, Rick Fischer, Carl Jackson, Joe Keller, Dave Krausnick, Charles Lightfoot, Tom McKissack, Jean Momb, Jessica Pruett, Susan Roberts, William Roberts, Tim Rourke, Greg Shore, Don Smith, Dallin Wrigley, and Ed Zachman.** Team members were presented with monetary awards at special BN ceremonies.

"I am proud of the RSL aviation team," said RSL Assistant General Manager **Roger Flanagan**. "This award-winning team continues to safely perform their national security responsibilities in a manner that continues to set higher standards for aviation and for the rest of RSL."



*Top: Cynthia Rivera and Roger Flanagan congratulate Kathy Banninger as one of the RSL Aviation Team members awarded the federal top honors by GSA for Federal Aviation Program Award for Small Programs.
Bottom: The Bell 412 helicopter equipped with mounted detector pods sits on the tarmac outside the RSL at Nellis Air Force Base.*

Weapons Accident Simulated Down to the Last Detail

by Kevin Rohrer

At 8 a.m. Eastern Daylight Time on Aug. 22, 2005, a privately-owned single engine Beechcraft Bonanza airplane crashed into the south side of the Explosive Handling Wharf at the Naval Submarine Base in Kings Bay, Georgia. So started the Department of Defense exercise to test their readiness and response to an accident involving two nuclear Tomahawk Land Attack Missiles.

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO) was soon called upon and deployed members of the Federal Radiological Management and Assessment Center (FRMAC) to provide off-site radiological monitoring to support the simulated emergency.

Within hours, 30 federal and Bechtel Nevada personnel were deployed to Georgia. FRMAC Director **Bill Suiter** established the team's priorities for sampling and off-site monitoring during an Advance Party Meeting with the Navy, local governments, and other federal agencies playing in the exercise. By sundown,

continued on page 4

NTS Firefighters Think "Outside the Box"

by Jennifer Morton

What happens when firefighters cross a wildland fire suppression system with an All Terrain Vehicle (ATV)? A lot of interest.

In fact, the success of the ATV Wildland Fire Suppression System has attracted interest not only among area fire departments but also commercially. Wildland includes areas that have not been settled or cultivated. The system is used by the Nevada Test Site (NTS) Fire and Rescue (F&R) team to mitigate fire risk and incorporates innovative methods and concepts to protect NTS workers, property, and the environment there. The team is composed of employees from Bechtel Nevada and is managed under NTS Operations.

"This is real ingenuity and an impressive use of our resources," said Bechtel Nevada NTS Operations Manager **John Howanitz**. "Not only do the ATVs get our firefighters to the scene, they get there with new and very effective fighting capabilities."

The system is so innovative that the vendor who supplies the firefighter backpacks used in it recently commented that the company has been trying to come up with a similar concept for years. And with the excessive amount of rain that fell at the site this past winter-causing a 67 percent higher-than-average vegetation growth rate-the system became an excellent tool to mitigate the fire risk created by this overgrowth.

The system certainly takes an innovative approach. For example, the F&R team created a firefighting compressed air foam system backpack that can be mounted on the back of a typical ATV. They did so by using parts and pieces from a standard compressed air foam system and a 14-gallon plastic tank with a fan tip spray nozzle.

"These ATVs enable us to get to and defeat fires in remote areas quickly, minimizing not only the fire's damage but also the physical impact to our firefighters," said NTS Chief **Chuck Fauerbach**.

Six ATVs, equipped with the "homemade" wildland fire suppression system, are towed by trailer to get as close to a fire scene as roads allow. Using water, foam, and compressed air to produce 25 gallons of foam per gallon of water (with no external water or power source) the firefighters can conduct containment activities safely and quickly. When supplies run low, the ATV operators return to the fire truck to replenish their materials

"The benefits are obvious," Fauerbach explained. "Time is essential and these ATVs not only get us to the fire scene quickly with the ability to conduct effective fire suppression, but also give us the ability to keep our firefighters on the fire line longer."

The NTS F&R team provides fire and rescue support to the 1,375 miles of federally funded land that comprises the NTS. This summer, the team responded to approximately 31 wildland fires that burned more than 13,000 acres, threatening radiological and cultural areas, communications towers, and power lines. Because of the efforts and a new proactive philosophy called Aggressive Initial Attack, which emphasizes to aggressively attack when the fire is small, the site's assets were not impacted by the fires.



NTS F&R Firefighter **Dan Cloes** lays down fire suppression foam in advance of the leading edge of the BREN Tower fire, June 2005.



NTS F&R Firefighter **Dan Cloes** uses an All Terrain Vehicle to patrol a power line during the BREN Tower fire, June 2005.

photos courtesy of James Brown

Face-to-Face



Name: Susie Pak
Company: Bechtel Nevada
Job Title: Office Assistant
Hometown: Honolulu, HI
Hobbies/Interests: Reading, snowboarding, oil painting, swimming, and watching movies.

The following acronyms appear frequently in SiteLines:

- | | |
|--------|--|
| BEEF | Big Explosives Experimental Facility |
| BN | Bechtel Nevada |
| CTOS | Counter Terrorism Operations Support |
| DAF | Device Assembly Facility |
| DOE | Department of Energy |
| EM | Emergency Management |
| EM | Environmental Management |
| ES&H | Environment, Safety, and Health |
| FRMAC | Federal Radiological Monitoring and Assessment Center |
| JASPER | Joint Actinide Shock Physics Experimental Research (gas gun) |
| LANL | Los Alamos National Laboratory |
| LLNL | Lawrence Livermore National Laboratory |
| NNSA | National Nuclear Security Administration |
| NSO | Nevada Site Office |
| NTS | Nevada Test Site |
| PIP | Process Improvement Project |
| RSL-A | Remote Sensing Laboratory - Andrews |
| RSL-N | Remote Sensing Laboratory - Nellis |
| SC | NNSA Service Center |
| SCE | Subcritical Experiment |
| SNJV | Stoller-Navarro Joint Venture |
| SNL | Sandia National Laboratories |
| STL | Special Technologies Laboratory |
| WSI-NV | Wackenhut Services Incorporated - Nevada |

Contracting Team Cleans Up Unexploded Ordnance at the NTS

by Joe Johnston

From February 2 to April 29, 2005, Stoller-Navarro Joint Venture (SNJV), a contractor for the National Nuclear Security Administration Nevada Site Office, coordinated an extensive effort to clear munitions and explosives of concern (MEC) remaining at Areas 7 and 18 on the Nevada Test Site. The objective of this project was to safely locate, identify, remove, destroy, detonate, and/or finally dispose of these materials below ground.

In order to find these potentially dangerous materials, technicians used special, anomaly-finding equipment. A device known as a towed array, which consists of three high-sensitivity metal detection sensors, was used to perform digital geophysical mapping. A global positioning system hand-held magnetometers, and other metal detectors, were also used. Weston (one of the five contractors that make up the SNJV) carried out the clearance action of unexploded ordnance (UXO). The team performed well over 6,000 excavations and identified more than 1,000 MEC.

All excavated debris was segregated into appropriate categories (e.g., potentially hazardous and non-hazardous scrap), prepared for onsite transfer, and then staged for onsite disposal by SNJV. Materials with the potential for explosion and UXO were evaluated to determine whether they could be safely moved to a detonation area or required detonation in place.

Crews proceeded extremely carefully when working with the MEC materials. The items in question were visually examined for markings and other external features such as size, shape, and external fittings. MEC items were handled by UXO-qualified personnel only, and activities were restricted to daylight hours. As materials were removed, the remaining holes in the ground were rechecked to ensure no other material remained, and the holes were refilled and packed.

After all site reconnaissance and intrusive collection activities were completed, SNJV successfully detonated all recovered MEC items. Items included fuses, motors, landmines, small arms, rockets, bombs, mortars, and various warheads. As a precautionary measure, the Nevada Test Site Fire Department and emergency medical personnel were present during the detonation phase.

The project was a success because safety was the top priority. Observing this philosophy, along with strict guidelines, allowed SNJV to produce positive results... as well as gain valuable experience that will benefit future projects.

For many years, the U.S. government has utilized the expansive Nevada Test Site for defense training exercises and missions. Unexploded ordnance and MEC are the result of such training activities.



photo courtesy of Environmental Management

Unexploded ordnance removal activities in Area 18 of the Nevada Test Site.

Weapons Accident Simulated Down to the Last Detail

continued from page 3

teams were ready to begin monitoring and sampling efforts. Over the next two days, sampling and monitoring data confirmed the location and extent of on- and off-site contamination. The data products developed by FRMAC were instrumental in helping the Navy and local governments make decisions related to public health and safety. For the exercise, evacuation and shelter-in-place recommendations were all simulated.

A sense of realism was added to the exercise through a media and public inquiry simulation cell. Media calls flooded the Joint Information Center. Information briefed at mock news conferences was later published in the Georgia Peach Pit, the simulated local paper.

"The scenario was extremely realistic. The exercise accident site had airplane parts and missile pieces and parts scattered across the wharf," commented **Deborah Monette**, senior energy official coordinating response activities for the Department of Energy. "The Accident Response Group had their hands full, as did the Navy. We were all able to work together to successfully recover the damaged nuclear weapons."

Exercise play shifted to the Nevada Test Site (NTS) the following week. One of the simulated damaged weapons used during the exercise was transported to "G-tunnel" at the NTS. It was there that weapons experts continued their work to stage and fully characterize the status of the weapon. Had this been a real

event, a decision would eventually be made on final disposition of the weapon.

This is just one of several recent exercises FRMAC personnel have participated in over the last year. "In addition to these large-scale exercises, we regularly work with state and local government to participate in exercises at nuclear power reactor sites across the country. Should there ever be a real accident involving radiological contamination, we are ready to respond," said **Colleen O'Laughlin**, NSO Consequence Management Program manager. For additional information on FRMAC, please visit the Nevada Site Office Web site at www.nv.doe.gov.

"The scenario was extremely realistic. The exercise accident site had airplane parts and missile pieces and parts scattered across the wharf."

News Briefs

Bechtel Nevada Recognizes Outstanding Technical Achievement

After a rigorous nomination and review process, the Bechtel Nevada Science and Engineering Review Panel named **Stephen S. Lutz**, principal scientist, and **Stuart A. Baker**, senior engineer, winners of the third annual Science & Engineering Award for their significant contributions to the Armando Pulsed X-Ray Radiography Imaging System project.

"Bechtel Nevada is proud to recognize the achievements of our scientific and engineering staff," said **Dr. James E. Powell**, president and general manager of Bechtel Nevada. "This is the third year we have named a Science & Engineering Award winner and the nominated achievements keep setting the bar for excellent work higher and higher." Previous winners include **Charles C. Madsen**, **Gene A. Capelle**, **Morris I. Kaufman**, **Robert M. Malone**, and **Phillip W. Watts**.



Steve Lutz receives his cash award from Jim Powell at the Special Technologies Laboratory on Sept. 5, 2005.

Lutz and Baker, along with Los Alamos National Laboratory collaborators, developed and designed the state-of-the-art radiographic imaging diagnostic system to capture x-ray images of an explosive event at two different times during the execution of the Armando subcritical experiment.

The experiment produces essential scientific data and technical information that is necessary to obtain in the absence of nuclear testing. Experiments are termed "subcritical" because no critical mass is formed and no self-sustaining nuclear chain reaction can occur. Thus, there is no nuclear explosion.

The x-ray pulses that occurred during the event were generated by the CYGNUS 2.2MeV X-ray source, an important spectroscopic tool to produce and observe the high-energy environments created by subcritical experiments. The award-winning pair also developed a novel new technique to improve the data analysis of the image, which significantly contributes to the information gathered by the experiment. This work directly supports one of the National Nuclear Security Administration's milestones for its Stockpile Stewardship program.



Beyond the call

Patty Hartig Goes Above and Beyond



The Above and Beyond the Call of Duty award was recently presented to **Patty Hartig** of Wackenhut Services, Incorporated (WSI). Hartig was congratulated and recognized by WSI for exceeding expectations to prepare a major document - the Site Safeguards and Security Plan (SSSP).

Hartig currently works in the Human Resources department for WSI. She assisted the Nevada Site Office (NSO) to prepare the SSSP, a comprehensive security plan that encompasses NSO activities, both onsite and offsite. Hartig is well-versed in technical writing, a skill which proved valuable in gathering information, proofread

ing, and revising this important plan. She put the 200-page document together by using Microsoft Word, and also included a table of contents, which has never been done for this particular plan before.

In spite of numerous revisions, roadblocks, and time constraints, Hartig was able to present the document before the established due date. **Leo Price**, WSI's plans analyst, said Hartig finished the project in about two weeks. "Without Patty's incredible efforts, the plan would have taken another month for completion," said Price.

Face-to-Face

Name: LaTonya Burke

Company: NNSA/NSO

Job title: Administrative Assistant; Office of the Assistant Manager for Business & Contract Management

Hometown: Lansing, Mich.

Interests/Hobbies: Family, friends, cooking, entertaining, music, arts and design, health and fitness, and participating in various volunteer projects to inspire others.



Face-to-Face



Name: Kym Hook
Company: Wackenhut Services Inc.
Title: Senior Administrative Clerk II
Hometown: Napa, Calif.
Hobbies/Interests: Pets, gardening, reading, swimming.

Partnering for Education



BN donates money to Focus School



Sonya Snyder and Cody Wall of Jim Bridger Middle School show off items they received from the recent focus school supply drive.

photo courtesy of Jennifer Morton

Employees Deliver Once Again: School Supply Drives are a Success!

Backpacks, lunch boxes, calculators, protractors-these are just a few of the many school supplies Bechtel Nevada (BN) and Wackenhut Services, Inc. (WSI) employees donated for this year's Focus School supply drives at area facilities. BN donates to Jim Bridger Middle School and Kit Carson Middle School while WSI collected items for the students of Quannah McCall (QM)Elementary School.

The focus school program is part of the Clark County Partnership Program, which connects at-risk Clark County schools with corporations willing to assist with monetary donations, in-kind donations, and volunteer efforts.

BN collected approximately \$1,500 worth of school supplies for its focus schools while the WSI's Community Outreach Committee delivered 740 packaged items to QM just in time for the first day of school. This figure translates into only a fraction of the total item count once packaged supplies are opened and distributed individually to the students.

For more information on BN's Focus School Program contact **Jennifer Morton** at (702) 295-4376. For information on WSI's program, contact **Katie Reynolds** at (702) 295-0804.

Site Safety Culture Enhanced by Lessons Learned

To enhance communications about negative and positive events occurring at the Nevada Test Site, Bechtel Nevada (BN) changed its process for writing and distributing lessons learned in October 2004.

Company Directive, CD-3200.013, "Lessons Learned Program," was rewritten to require the submission of a Lessons Learned after any critique and any follow-on Root Cause Analysis (RCA). Critiques and RCAs are conducted after an incident to capture the facts and timelines associated with that event.

Prior to this time, personnel were encouraged, but not required, to write a Lessons Learned after the critique/RCA was written. In addition, a network of personnel was established to support the program.

Currently, 35 department Lessons Learned Coordinators support BN departments and divisions in the feedback and continuous improvement process. The positive results of this change were that the number of lessons written in fiscal year 2005 doubled from the previous year. There was also a 600-percent

increase in the number of feedback forms received by the coordinators.

Feedback forms indicate how the lesson was disseminated to personnel within a group. Also, staff proactively used Occurrence Reports as "mini" Lessons Learned to identify whether issues exist at BN that are reported from another site. This information supplements the formal Lessons Learned program.

BN has submitted over 40 percent of the lessons that were generated from local events to the DOE Lessons Learned Database. This communication assists sites who have processes similar to the Nevada Test Site (NTS).

Now, more people are communicating Lessons Learned to ensure that all personnel are aware of incidents. Lessons Learned have been incorporated in the work planning process and in the lesson plans used by the Training department to permanently document negative events. Lessons Learned from the NTS are shared with the national laboratories, Stoller-Navarro, Wackenhut, Defense Threat Reduction Agency, and NNSA personnel.

Have Your Family Disaster Plan Ready!

Disaster can strike quickly and without warning. It can force you to evacuate your neighborhood or confine you to your home. What would you do if basic services—water, gas, electricity or telephones—were cut off? Local officials and relief workers will be on the scene after a disaster, but they cannot reach everyone right away.

Follow the steps outlined in this article to create your family's disaster plan. Knowing what to do is your best protection and your responsibility.

Your Steps to Safety

Discover What Could Happen to You

- Contact your local emergency management or civil defense office and American Red Cross chapter—be prepared to take notes:
- Ask what types of disasters are most likely to happen. Request information on how to prepare for each.
- Learn about your community's warning signals: what they sound like and what you should do when you hear them.
- Ask about animal care after disaster. Animals may not be allowed inside emergency shelters due to health regulations.
- Find out how to help elderly or disabled persons, if needed.
- Next, find out about the disaster plans at your workplace, your children's school or daycare center, and other places where your family spends time.

Create a Disaster Plan

- Meet with your family and discuss why you need to prepare for disaster. Explain the dangers of fire, severe weather, and earthquakes. Plan to share responsibilities and work together as a team.
- Discuss the types of disasters that are most likely to happen. Explain what to do in each case.
- Pick two places to meet:
 - Right outside your home in case of a sudden emergency, like a fire.
 - Outside your neighborhood in case you can't return home. Everyone must know the address and phone number.
- Ask an out-of-state friend to be your "family contact." After a disaster, it's often easier to call long distance. Every family member must know your contact's phone number.
- Discuss what to do in an evacuation. Plan how to take care of your pets.

Complete This Checklist

- Post emergency telephone numbers by phones (fire, police, ambulance, etc.).
- Teach children how and when to call 911 or your local Emergency Medical Services number for emergency help.
- Show each family member how and when to turn off the water, gas, and electricity at the main switches.
- Check if you have adequate insurance coverage, including flood insurance, which is not normally included in homeowners' insurance.
- Teach each family member how to use the fire extinguisher (ABC type) and show them where it's kept.
- Install smoke detectors on each level of your home, especially near bedrooms.
- Conduct a home hazard hunt.
- Stock emergency supplies and assemble a Disaster Supplies Kit.
- Take a Red Cross first aid and CPR class.
- Determine the best escape routes from your home. Find two ways out of each room.
- Find the safe spots in your home for each type of disaster.

Practice and Maintain Your Plan

- Quiz your kids every six months so they remember what to do.
- Conduct fire and emergency evacuation drills.
- Replace stored water every three months and stored food every six months.
- Test and recharge your fire extinguisher(s) according to manufacturer's instructions.
- Test your smoke detectors monthly and change the batteries at least once a year.
- Keep enough emergency supplies in your home to meet your needs for at least three days, including: water (one gallon per person per day); necessary medications; one change of clothing per person; a first aid kit; emergency tools; an extra set of car keys and a credit card and cash or traveler's checks. Store these supplies in sturdy, easy-to-carry containers such as backpacks that will be accessible and easy to carry in an evacuation.

For more information, please contact your local emergency management or civil defense office and your local American Red Cross chapter. Request free family protection publications by writing to: FEMA, P.O. Box 70274, Washington, D.C., 20024.

Retirements

David M. Butler - Bechtel Nevada
Dorothy Dwyer-Butler - Bechtel Nevada
Adrienne Grant - Bechtel Nevada
Thomas Holleran - Bechtel Nevada
Robert R. Rommel - Bechtel Nevada

In Memory

William Barsotti - former contractor employee
Adrick Batalona - former contractor employee
Patrick Bishop - former contractor employee
Sidney Gibson - former contractor employee
Amiee Gilles - former contractor employee
Warren Hayes - former contractor employee
Burt Smith - former Bechtel Nevada employee
James Wheatley - former contractor employee

In the Next Issue of SiteLines

- Congressional staff visit to ASP testing site/Department of Homeland Security Activity regarding Advanced Spectroscopic Portals program
- BN Mentoring Program
- Community Environmental Monitoring Program
- Community Outreach Events
- Southern Nevada Hispanic Employment Program
- Story on E-85 Fuel Tank Used at NTS to Conserve Unleaded Gas
- D&D Work at RMAD Facility



The Occupational Medicine Department Focuses on Breast Cancer

October is national breast cancer month. Are you aware that every adult is at risk for breast cancer?

Breast cancer is rare in men but can occur. It is the most common cancer in women other than skin cancer. Approximately 211,300 women in the United States will be diagnosed with breast cancer this year. Your chances of getting breast cancer rise with age and become significant by age 50.

Risk factors that increase a woman's chance to develop breast cancer:

- You may be at increased risk if you have a family history of breast cancer in first degree relatives known as a mother, sister, daughter.
- If your first child was born after the age of 30 or if you have no children.
- If you began menstruating early (before age 12) or stopped late (after age 50).
- Breast cancer occurs more in Caucasian women than in Asian, African American, or Hispanic women, but African American women are more likely to die of this disease. Also, Asian women who have moved to the United States have an increased risk, leading researchers to believe that there is a connection between environment and breast cancer.
- If you have had cancer of one breast.
- Women with a non-cancerous lesion in the breast (called a radical scar) are at an increased risk to develop breast cancer at the site of the scar.
- Prior radiation exposure, especially if exposed before the age of 30.
- Scientists have discovered that mutations in certain genes put women at a greater risk for developing breast cancer. There is an increased prevalence of this gene in women of Ashkenazi Jewish descent.
- There is a slight risk for women taking birth control pills. Women who have stopped taking the pills for 10 years do not seem to have an increased risk. Women over the age of 45 who are taking birth control pills are at a greater risk.
- Long-term use of hormone replacement therapy may increase your risk.

- Use of alcohol is linked to breast cancer. Doctors suggest you limit your alcohol consumption to one drink per day.
- A weight gain after age 18 may increase breast cancer risk after menopause.
- There may be a link between physical activity and a risk of breast cancer.

Signs and symptoms of breast cancer:

- A lump within the breast or underarm area.
- A discharge from the nipple. This may be perfectly normal in women who are breastfeeding. A spontaneous discharge without squeezing the breast is of greater concern.
- Changes in the size or shape of the breast.
- Swelling of the skin that covers the breast. The breast tissue may feel thicker. Pain or redness of the skin, skin dimpling.
- The nipple may be sore or retract inside the breast, scaly skin on the nipple.
- Any changes in veins in the breast.
- As breast cancer progresses the signs can include skin ulcers, swelling and redness of the breast and/or arm, and the nipple and/or breast may retract.

American Cancer Society Guidelines for early detection of breast cancer:

- Women age 40 and older should have a mammogram every year.
- Discuss with your doctor a need for a mammogram if you are under age 40 and have a family history of breast cancer.
- Clinical breast exam performed by your doctor as part of your health exam.
- Examine your breasts monthly and report any changes to your doctor.

After diagnosis, prompt treatment is essential and may include surgery, radiation, or chemotherapy. The National Cancer Institute's toll free number is 1-800-4-CANCER. The following Web sites have additional information:
<http://health.yahoo.com/health/women/dealing1.html>;
<http://www.feminist.org/other/bc/bcfact.html>

Submit questions to **Sharon Mulhall @ M/S NTS276** or **Karen Sondrol-Maxwell @ M/S NLV029**.



Environmentally Preferable Purchasing - Closing the Recycle Loop

by Al Karns

Federal facilities are required by law to recycle. Placing recyclable materials into recycling containers is the first step of the recycle loop. The second step of the loop is making new products out of the material, such as plastic bottles melted down to make carpeting. The third step is called Environmentally Preferable Purchasing (EPP), the process of buying goods that have been made with recycled or remanufactured materials.

The Resource Conservation and Recovery Act (RCRA), is a federal law that requires employees at federal facilities to purchase certain items made with recycled materials. This law is governed by the Environmental Protection Agency (EPA), which has published a list of items that, when purchased, must contain recycled materials. The EPA-designated list contains a number of product categories, which are outlined below.

Every employee is responsible to check whether a purchased item is on the EPA-designated list. If it is, it must contain recycled material. In accordance with the Requisition Compliance Review list, if you cannot purchase items made with recycled materials, your requisition worksheet must be submitted to Environmental Services for review, along with your justification explaining why. Following are the only EPA-accepted justifications:

- Not available within a reasonable period of time

- Does not meet appropriate performance standards
- Is only available at an unreasonable price
- No adequate competition

Requisition preparers, buyers, P-Card holders, and anyone issuing blanket releases must ensure that EPP requirements are met. This stimulates a market for these products, which brings down their price, making them more competitive with similar items made with virgin materials. EPP closes the recycle loop.

When an item is purchased that falls into one of the following categories, it must be purchased containing a minimum amount of recycled or remanufactured materials:

Construction Products

- **Building insulation products** - rock wool; fiberglass; cellulose loose-fill and spray-on; perlite composite board; rigid foam; foam-in-place; glass fiber reinforced; phenolic rigid foam; plastic, non-woven batt
- **Carpet** - polyester carpet face fiber; carpet cushion - bonded polyurethane, jute, synthetic fibers, rubber
- **Cement and concrete** - containing coal fly ash, ground granulated blast furnace slag, cenospheres, silica fumes
- **Latex paint** - reprocessed, consolidated
- **Floor tiles** (commercial use) - rubber, plastic,

flowable fill, laminated paperboard

- **Shower and restroom dividers/partitions** - steel, plastic
- **Structural fiberboard**

Landscaping Products

- **Garden and soaker hoses**
- **Plastic lumber landscaping timbers and posts**
- **Lawn and garden edging** - plastic or rubber

Nonpaper Office Products

- **Binders** - plastic-covered, paper-covered, press-board, solid plastic, misc. plastics
- Plastic clipboards, clip portfolios, file folders, presentation folders, envelopes
- **Office waste and recycling containers** - plastic; steel; corrugated paper; solid fiber boxes; industrial paper board; Plastic trash bags
- Plastic desktop accessories
- Toner cartridges and printer ribbons

Paper and Paper Products

- **Printing and writing papers** - reprographic paper (e.g., copier paper and bond paper); offset paper (e.g., offset printing paper and book paper); tablet paper (note pads, stationery, and other writing papers); forms bond; envelope paper; white and colored (including manila); unbleached; cotton fiber (e.g., ledger, stationery and matching envelopes, and other writing papers); text & cover (e.g., cover stock, book paper, stationery and matching envelopes, and other writing paper); high gloss calendars;

MILESTONES

Bechtel Nevada

- 35 years *Las Vegas - Charles McNeel; Nevada Test Site - Nira McCoy, Robert Myles; Los Alamos Operations - Jesusita Sandoval*
- 30 years *Nevada Test Site - Russell Scott*
- 25 years *Las Vegas - Bill Bellow, Chet Chuang; Nevada Test Site - Carolyn Carder, Harold Davis, David Milligan, John Schoppmann, Judith Scrogum; Remote Sensing Laboratory - Patricia Denison, Kevin Forcade, Bart McGough*
- 20 years *Las Vegas - Sandra Kiehl; Nevada Test Site -- Frederick Beecher, Keith Doering*
- 15 years *Las Vegas - Randall Ferguson, Anita Hirschy, Susan Livenick, Catherine Tharin; Nevada Test Site - Elizabeth Calman, Gerald Dries, Michael Gilmartin, Richard Moore Sr., David Young; Remote Sensing Laboratory - Sherrell Paulson*
- 10 years *Nevada Test Site - Matthew Weaver*
- 5 years *Nevada Test Site - Katherine Boles, LaMoyne Galloway, Mark Pappalardo, Paul Perez, Charles Sheville, Richard Venedam; Remote Sensing Laboratory - Don DeCaria, Carl Jackson, Timothy Rearich, Marcus White*

Air Resources Laboratory, Special Operations and Research Division (ARL/SORD)

- 30 years **Marc Pitchford**

Desert Research Institute

- 20 years **Thomas Swafford**
- 15 years **Colleen Beck, Mark Green, Barbara Kennedy, James Romaggi**
- 10 years **James Hopkin**
- 5 years **Steven Lambert, Glen Wilson**
- Team CNSI
- 5 years **Phillip Molzen, Marvin Best**
- New Hires *Las Vegas: Frederick Alsup, Joan Balgame, Richard Burns, Dennis Fulkerson, Kathi Haughn, Linda Krey, Kimberly Kruskie, Kaykham Mavaday, Stanley McKenzie, Alberto Morales, James Murphy, James Phillips, Linda Sams; Melissa Robinson, Peter Thornock; Livermore Operations: Jim Mirador, Los Alamos Operations: Claudio Lopez; Nevada Test Site: Maria Apodaca, Shirley F. Burns, Richard Cheval, Richard Costa, James Davis, Charles Gamache, Dorothy Jew, William Lee, Pamela McGinley, Lisa McIntire, Brian Musick, Mark Reinier, Todd A. Schmelzinger, Marquita Smith, Michael Twork; Remote Sensing Laboratory: Scott L. Battocchi, James D. Brownell, Robert B. Hayes, Stephen Kegeler, Andrew Murphy, Allan Rogers, Thomas Selfridge; Special Technologies Laboratory: Carol Baccash, Victoria Burmeister, Jason Burmeister, Katharine Streecon*

Environmentally Preferable Purchasing continued ...

machine finish groundwork; check safety paper; coated printing paper; carbonless; file folders (manila and colored); dyed filing products; cards (index, postal); pressboard report covers and binders; tags and tickets

- **Miscellaneous papers and Newsprint**
- **Commercial/industrial sanitary tissue products** - bathroom tissue, paper towels, paper napkins, facial tissue, general purpose industrial wipers
- **Paperboard and packaging products** - corrugated containers; solid fiber boxes; folding cartons; industrial paperboard (e.g., tubes, cores, drums, and cans); miscellaneous (e.g., pad backs, covered binders, book covers, mailing tubes, protective packaging); padded mailers; carrierboard; brown papers (e.g., wrapping paper and bags)

Park and Recreation Products

- Park benches and picnic tables - plastics, aluminum, concrete, steel
- Plastic fencing and running tracks

Transportation Products

- **Channelizers, delineators, and flexible delineators** - plastic, rubber, steel
- **Parking stops** - plastic, rubber, concrete
- **Traffic barricades** - plastic, steel, fiberglass; traffic cones - plastic, rubber

Vehicular Products

- **Engine coolants** - recycled; vehicular parts - rebuilt; lubricating oils - re-refined; and tires - retreads

Miscellaneous Products

- **Awards and plaques** - glass, wood, paper, plastic and plastic/wood composite
- **Industrial drums** - steel, plastic, fiber
- **Mats** - rubber, plastic, rubber/plastic composites
- **Pallets** - wooden, plastic lumber, plastic thermoformed, paperboard
- **Signage** - plastic or aluminum signs, plastic or steel sign posts/supports
- **Sorbents** - paper, textiles, plastics, wood, other organics/multi-materials
- **Manual-grade strapping** - polyester, polypropylene, steel

For more information on proper recycling, contact **Al Karns** at **(702) 295-5689**.



CALENDAR OF EVENTS

October 10

NNSA/NSO offices closed in observance of Columbus Day.

November 11

NNSA/NSO and contractor offices closed in observance of Veterans Day.

November 22

NTS Public Tour, open to interested members of the public. Sedan Crater, Frenchman Flat, Non-Proliferation Test and Evaluation Complex, Bilby Crater, Area 5 Low-level Radioactive Waste Management Site, Apple II houses. Contact **Brenda Carter, BN (702) 295-0944.**

November 24

NNSA/NSO and contractor offices closed in observance of Thanksgiving.

Declassified Film Showings

For information on declassified film showings at NTS CP-1, call (702) 295-4015. For information on declassified film showings at NTS Yucca Mountain, contact **Rod Rodriguez (702) 295-5825.**

Upcoming Conferences, Meetings, and Trade Shows

October 3 - 7

The International Society for Optical Engineering (or SPIE) presents the 25th Annual BACUS Symposium on Photomask Technology in Monterey, Calif. For additional information, go to <http://spie.org/conferences/calls/05/pm/>.

October 4 - 7

The International Conference on Control and Synchronization of Dynamical Systems takes place in Leon, Guanajuato Mexico. Features the latest research in theory of control and synchronization of complex systems. For more information, go to http://www.cio.mx/CSDS-2005/CAOS_1.html.

October 5 - 7

Join SPIE for the XIV International Workshop of Multiple Scattering Lidar Experiments (MUSCLE XIV) taking place in Quebec City, Canada. For more information, go to www.spie.org/app/conferences/index.cfm

October 22-25

The 20th Annual Professional Conference on Industrial Hygiene, entitled "2005: The Summit for New Opportunities." Takes place in Denver, Colo. Contact: **(703) 849-8888** or visit www.aiha.org/pcih.htm for more information.

October 27-28

Professional Development Conference Sponsored by AIHA Chesapeake Section, the National Capital Chapter of the Academy of Certified Hazardous Materials Managers and Johns Hopkins University. Takes place in Baltimore, Md. Contact: **Jim Lewis; (410) 537-3300** or visit jlewis@mde.state.md.us.

October 28

Nevada Test Site Historical Foundation offers an evening with the photographer Paul Shambroom. Museum admission free to Nevada residents with an ID. Go to <http://www.ntshf.org/news.htm> for more information.

October 31 - November 2, 2005

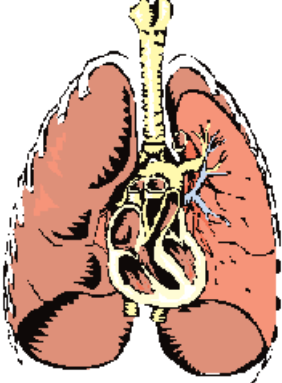
Department of Justice and the Department of Homeland Security present Technologies for Critical Incident Response Conference and Exposition 2005 in San Diego, Calif. Visit <http://www.regonline.com/eventinfo.asp?EventId=21494> for more information.

November is:

Diabetes
Awareness
Month

and

National
Lung Cancer
Awareness Month



: Face-to-Face :



Name: Tamiko Brown
Company: Stoller-Navarro Joint Venture
Title: Data Analyst II
Hometown: Las Vegas, Nev.
Hobbies/Interests: Movies, dancing, and spending time with family and friends.

SiteLines

Bechtel Nevada
P.O. Box 98521, M/S NLV 106
Las Vegas, NV 89193-8521

PRSR STD
U.S. Postage
PAID
Las Vegas, NV
Permit No. 155



*Published for all members of the NNSA/Nevada Site Office family
Kathleen A. Carlson, Manager, NNSA/Nevada Site Office
Darwin J. Morgan, Director, Office of Public Affairs
Submit articles or ideas to the editor at M/S NLV106,
restivm@nv.doe.gov, or 702-295-7045*

Editor:

Norma Restivo
Bechtel Nevada

Darwin Morgan
Jennifer Morton
Robert Noto

Layout and graphics:

Norma Restivo
Bechtel Nevada

Cheryl Oar
Norma Restivo
Kevin Rohrer
Katherine Schwartz

Contributors:

Doris Burnett
Joe Johnston
Al Karns
Michelle Meade

Karen Sondrol-Maxwell
Nancy Tufano

