

SITELINES

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A publication for all members of the NNSA/NSO family

National Security Technologies, LLC, awarded Nevada Test Site M&O contract

On March 28, 2006, the National Nuclear Security Administration (NNSA) announced the selection of National Security Technologies, LLC (NSTec) to manage and operate the Nevada Test Site (NTS) for the NNSA Nevada Site Office.

The contract, valued at approximately \$500 million annually, is for five years. There are potentially five additional performance-based award-term years available under this contract. NSTec is made up of Northrop Grumman, AECOM, CH2M Hill, and Nuclear Fuel Services.

Dr. James E. Powell, president and general manager of Bechtel Nevada, offered his own perspective on the new contractor.

"We congratulate National Security Technologies and will work with them to achieve a seamless transition over the next three months," said Powell.

In a memo to Bechtel Nevada

employees, Powell added that he would work with the new contractor to ensure that employees are kept informed of all aspects of the transition and how it may affect them. He also thanked employees for their outstanding performance and safety record.

Under the new contract, NSTec will be responsible for managing and operating the NTS and satellite facilities in North Las Vegas, Nevada; Nellis Air Force Base, Nevada; Andrews Air Force Base, Washington, D.C.; Los Alamos, New Mexico; Livermore, California; and Santa Barbara, California. The 1,375-square-mile NTS supports NNSA's national security missions, first responder training, and environmental restoration and waste management activities.

The work includes remote field experiments and operations; physical and environmental science; design and fabrication of electronic, mechanical, and struc-

tural systems; remote and robotic sensing; management of multi-laboratory facilities; engineering, construction, and mining operations; chemical, explosives, and hazardous materials systems and technologies; and waste management for various categories of waste.

"We congratulate National Security Technologies and will work with them to achieve a seamless transition over the next three months."

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NNSA/NSO Manager **Kathy Carlson** presents NNSA Administrator **Linton Brooks** with a memento during his recent visit to the Nevada Site Office. Brooks' visit included a discussion on the strategic direction of the NNSA and the important work being done at the Nevada Test Site, including stockpile stewardship.

Farewell message from Kathy Carlson to the Nevada Site Office

As many of you already know, I have reached those magic marks of 55 with 30 years of federal service. The first thing I want to say is "Thank You!" When I first came to Nevada in June 1999, I planned on serving as the NSO Site Manager for about seven years. During my meeting with Ambassador Brooks on March 21, I informed him that I would be retiring on May 3, 2006.

I am thankful and truly appreciate all of the support from everyone within the Nevada Site Office. The success of our office is a direct reflection of your dedication and commitment at all levels of the organization. I have been blessed to work with an incredible team performing our missions. I have seen you work through the formation of NNSA, new nuclear missions, environmental clean-up, record waste disposal volumes, and improving safety and security programs. I offer my heartfelt and deepest appreciation for allowing me to be your leader during these challenging years. With clear future missions identified, I know the people of this office can accomplish anything.

Now is the time for me to say "adios." I plan on traveling and playing, and will remember you all fondly. I respect you all for being true patriots.

I plan on traveling and playing, and will remember you all fondly. I respect you all for being true patriots.

Beyond the call

Tomlinson nominated for stellar Federal Engineer of the Year award

The National Nuclear Security Administration's (NNSA) very own **Laura Tomlinson**, deputy assistant manager for National Security, was recently nominated for the prestigious Federal Engineer of the Year Award (FEYA).

Tomlinson was among the top finishers nationwide to receive a nomination and was ranked 14 among 24 finalists to become a winner for the federal agency she represents. Finalists are employed at a number of agencies including the Department of Energy's Oakridge Office, the Department of Transportation, and the Environmental Protection Agency. The award is administered by the National Society of Professional Engineers through the Professional Engineers in Government (NSPE/PEG).

Linton Brooks, administrator of the NNSA, recognized Tomlinson for her recent nomination: "Laura is really a role model for this organization and embodies the positive future that lies ahead for the NNSA," said Brooks. "Her ethics and dedication to the NNSA mission is complemented by her professional expertise and enthusiasm as recognized by this award."

The award acknowledges engineers working for federal agencies that employ at least 50 engineers worldwide; candidates are nominated by their employing federal agency. The FEYA is selected by a panel of judges established by NSPE-PEG who consider engineering achievements, education, continuing education, professional/technical society activities, NSPE membership, awards or honors, and civic and humanitarian activities.

Debbie Monette, the NNSA's assistant manager for National Security, called Tomlinson "one of those rare individuals who can apply her engineer-



Debbie Monette (left) and Laura Tomlinson pose with Laura's recent Engineer of the Year Award.

ing expertise to solving problems with innovative approaches for issues that range from technical to business practices. The end result is she is a highly effective and productive manager."

Tomlinson, who most recently served as the test controller for the successful Krakatau subcritical experiment, certainly has a laundry list of accomplishments that are testament to her productivity and effectiveness. She currently manages national nuclear stockpile work at the Nevada Test Site (NTS), totaling \$250 million annually, while integrating and managing the work of three national laboratories (Sandia, Lawrence Livermore, and Los Alamos) with Bechtel Nevada.

Here is just a sample of Tomlinson's additional achievements:

- Personally led the design and development to implement compliance with the new 10 Code of Federal Regulations 830 require-

ments for all nuclear work at the NTS, a complex requirement because of its application to very unique and diverse facilities and operations.

- Designed the approach and secured the budget to apply these new requirements to Underground Nuclear Test Readiness.
- Developed and managed the initial sub-critical experiment program, including the documented safety analyses, independent reviews, corrective action closures, readiness validations, and the execution of five successful experiments.
- Managed the efforts of a multi-organizational team to resume nuclear operations at the NTS after Los Alamos National Laboratory initiated a full operational safety stand down.
- Designed the project plans and budgets and managed the successful start up of two new experimental facilities at the NTS -- JASPER and Atlas.

On Feb. 23, 2006, the 27th FEYA Luncheon took place at the National Press Club in Washington, D.C. In addition to the 24 agency winners, who were recognized for their engineering achievements, NSPE-PEG's judges selected the top ten engineers and the Federal Engineer of the year, John Cardarelli, II, Ph.D, P.E.

Due to Krakatau test controller activities, Tomlinson did not attend the luncheon. However, at the Test Controller dinner for Krakatau, Monette did present a surprise award to Tomlinson, who stated that "for one of the first times in my life, I'm speechless. I am so surprised and honored. The NTS is a great place to work and the NTS family is a fabulous one to be a part of."

For more information on the award and awardees, go to <http://www.nspe.org/peg/pg1-feya.asp>.

Multichannel VISAR Interferometer garners awards

Special Technologies Laboratory (STL) Site Manager **Mike Martinez** presented letters of recognition and award checks to scientists **Bruce Marshall**, **Terry Davies**, and **Dr. Gerald Stevens** Feb. 7, for their development of a fiber-array-coupled wide-field Michelson interferometer for use in multi-channel VISAR (Velocity Interferometer System for Any Reflector). The U.S. Patent Office gave official notice of the utility patent filing on Jan. 9.

This optical and mechanical design leads to significant improvements in optical efficiency and interchannel isolation. The device differs from previous designs in that the light from the fibers is not collimated in the interferometer, but instead is imaged to discrete locations at the cavity mirrors, which are curved and serve as field elements.

This approach makes possible the use of more precise fiber arrays with increased space between the fibers for greater isolation. It also allows diversion of a subset of the beams inside the cavity to a different delay path, providing simultaneous, differing delays with only a small amount of additional hardware and optics.



Mike Martinez, Site Manager for STL, presented letters of recognition and award checks on Feb. 7, 2006. From left to right: Bruce Marshall, Terry Davies, Dr. Gerald Stevens, and Mike Martinez.

News Briefs



RSL personnel assist emergency response in Argentina

Among the 200 countries in the world, Argentina is the eighth largest nation, and more than one-third of the country's 39 million people live in Buenos Aires. The country has two nuclear power plants: Central Nuclear Embalse and Central Nuclear Atucha 1, both near Buenos Aires.

These two nuclear power plants are the focus of an effort by the International Atomic Energy Agency (IAEA) to make Buenos Aires a part of the global radiological Emergency Response Network (ERNET).

The National Nuclear Security Administration's Office of International Emergency Management and Cooperation (NA-23) is working with the IAEA to help establish the regionally-based ERNET.

Under a cooperative agreement with the Argentine Nuclear Regulatory Authority, **Vince McClellan** and four Bechtel Nevada Remote Sensing Laboratory (RSL) employees traveled to Buenos Aires in late February and early March to discuss assistance from the United States.



The Central Nuclear Embalse Power Plant in Argentina shimmers in a night photograph. It is located on the southern shore of the river Tercero, near the city of Embalse in the Province of Córdoba.

The RSL team included: **Rhonda Hopkins**, manager, Radiological Emergency Responses Department; **Ernie Noriega** (Geographic Information Systems (GIS)), **James Essex** (GIS), and **Kevin Marah** (Communications).

As a result of the discussions, RSL will assist in the installation of an emergency communications network, an upgraded GIS system, and an enhanced radiological monitoring capability. The intent is to facilitate

the installation of a state-of-the-art emergency operations center for the Argentina Nuclear Regulatory Authority.

Ernie Noriega speaks Spanish and helped with the translation during the visit. "He was especially helpful," said Rhonda Hopkins, "because he could talk with the Argentineans on a technical level. He made the discussions flow so much smoother than through a hired translator."

The people are very gracious, very friendly, and very eager to participate," Hopkins continued. "It was interesting to hear them worrying about the same issues and similar problems that we have. They were so appreciative. It was nice to see our emergency response capabilities through someone else's eyes. It made me feel good about the work we are doing here."

Since returning to Las Vegas, the team has been searching for information on Argentina to provide a GIS-database that eventually will be utilized at the Argentina Emergency Operations Center. They are acquiring the equipment and supplies they will need when they return to Buenos Aires in the late summer. The team is also working with other RSL employees to design training on the new systems by leveraging off existing training and then translating the training into Spanish.

"The city has a very European feel and look. Our hotel was on a street lined with shops," said Hopkins. "You would go out at night and there would be Tango dancing in the street."

Elite WSI Special Response Team will enhance services to the NTS



Wackenhut Services, Inc., (WSI) has begun the initial training for its Special Response Team (SRT) program.

The SRT is a specially selected and trained unit that will be embedded within the existing Nevada Test Site (NTS) Protective Force. They will employ special weapons, vehicles, and tactics similar to our nation's elite military forces.

If you happen to see one of these individuals in the protective force you may recognize the equipment from the combat photography in Iraq and Afghanistan. That is because the Special Response Team borrows heavily from the lessons learned in overseas campaigns in order to complete its mission.

WSI NTS began initial training for its SRT leadership with the selection and training of six of its Protective Force Lieutenants. This included the SRT Coordinator at the National Training Center's Security Police Officer III Basic Course, which took place from mid-January 2006 until Feb. 10 in Albuquerque, N.M.

These six Lieutenants and their leadership are to be commended for completing the rigorous, four-week-long course conducted at the National Training Center, with its thin air and long training days, and for sacrificing time away from family and friends in order to make the SRT program a reality.

Special note and recognition goes to Lieutenant **Brian Hartman** for receiving the course award for best of class, and Lieutenant Mathew Vierig for winning the class shooting competition. With the completion of this course, including two existing SRT Lieutenants, WSI-NTS has gained eight of the planned 12 field SRT leadership positions for the SRT program.

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 |
| R-MAD | Reactor Maintenance, Assembly, and Disassembly Facility |
| 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 |

WSI NTS Special Response Team graduates as of Feb. 10, 2006:

- Lieutenant Levar Bell**
- Lieutenant Casey Grove**
- Lieutenant Brian Hartman**
- Major Pete Reimer**
- Lieutenant Jeff Stobbe**
- Lieutenant Mathew Vierig**

McKissack earns 10,000 accident-free flight hours



Bechtel Nevada (BN) Deputy General Manager Cynthia Rivera presents Thomas McKissack, a chief pilot with BN, an award from the Helicopter Association International. The award recognizes McKissack for 10,000 accident-free flying hours.

McKissack served 22 years in the U.S. Army in numerous assignments world wide after graduating from flight school in 1970. He is a FAA Certified Flight Instructor and has been in his present position with Bechtel Nevada for 10 years; he has over 1,300 hours in the Bell 412.

Humble Bower cabin reveals a rich and varied history

Archaeological research at the Nevada Test Site led to the discovery of a famous writer's homestead dating to the 1920s.

At the northern edge of the Test Site, in a box canyon at the base of Oak Butte, sits a rock cabin built by B.M. Bower. The site features a small storage structure, and remnants of a second cabin, an outhouse, and living quarters for her extended family and hired hands.

Bower, a prolific writer of western stories, used the initial moniker as a pen name throughout her career for two reasons - to have consistent name recognition and to hide her gender in order for the stories to appeal to a wider range of audience, particularly male readers.

Born Bertha Muzzy in Minnesota in 1871, Bower's writing career spanned more than forty years until her death in 1940. She penned at least 70 novels and over 100 short stories and was inducted into the Western Writers of America Hall of Fame in 1994.

Eleven of the novels were written during the time she spent at the cabin site. Skull Mountains, Specter Range, and the Skeleton Hills were used as landscape backdrops in some of the stories, and three of them incorporated the camp itself.

Although not as well known today, Bower is considered to have been on par with her contemporaries, who included Max Brand, Zane Grey, Willa Cather, and Owen Wister, author of *The Virginian*. She also delved briefly into motion pictures as a screenwriter and at least nine of her works were the basis of movies, starring such notable Western

actors of the time as Tom Mix, Hoot Gibson, and Johnny Mack Brown. Bower's writing style, however, contrasted with the other writers in that, being part of the West, she possessed the intimate background and knowledge of her subject material that other writers lacked.



The cabin nestles at the northern edge of the NTS.

Bertha and her family moved from Minnesota to the Big Sandy area of Montana in 1889, where she met the first of her three husbands, Clayton Bower. All three of her husbands were cowboys and all from the Montana area.

When they married, Bower moved with her last husband (Robert Cowan) from California to Nevada, where they took up residence near Oak Spring. They subsequently located a number of mining claims and formed the El Picacho Mining Company. Bower served as president of the company - the only woman at that time having such a position in the West.

They later moved to Las Vegas, where Cowan was elected city marshal in 1925. They returned to Los Angeles in 1926, but still worked the El Picacho mining claims until 1928.

Fittingly, in keeping with the theme of Bower's writing and screenwriting career, the abandoned camp was used in the early 1930s by outlaws from Utah and Arizona, whose escapades were later featured in a Death Valley Days radio episode narrated by Ronald Reagan.

Today, much of the cabin has collapsed from time and from the weather, having served its purpose in history. Many of the novels and stories by B.M. Bower are not easily available today either, most being out of print or in rare book status, but there has been a recent revival and interest by scholars of the West and her stories are being introduced to the public once again.

During a recent visit to the Bower Cabin, **Linda Cohn**, Cultural Resource manager for the NNSA, and **Kathy Carlson**, manager of the National Nuclear Security Administration Nevada Site Office, heard a mountain lion up the canyon from the cabin site. "It was as if we were being told that we were trespassing on the mountain lion's territory. It is easy to see how Ms. Bower's work was inspired by the scenery and remoteness of the site," stated Cohn.

Despite the ravages of time and nature, the knowledge gained from the research on the Bower Cabin site on the NTS helps preserve the memory of B.M. Bower, an extraordinary woman of her time, and of the historic Oak Spring Mining District.

In the next issue of SiteLines

- Lecture series created by **Warnick Kernan** on nuclear threat and detection
- Employees in Russia performing joint emergency response demos and exercises
- Environmental work conducted at the Marshall Islands
- More on **Kathy Carlson** ...
- Christmas in April
- E-mentor program
- Yellow Belt training for the Albuquerque Service Center
- Fresh crop of WSI graduates

Are you a member yet?

Become a steward of history.

Join the Nevada Test Site Historical Foundation to preserve and foster public accessibility to the history associated with the Nevada Test Site and the nation's nuclear weapons testing program.

Membership is open to any individual or organization, public or private, interested in preserving the history of the Nevada Test Site.

Annual membership benefits include:

- Free admission to the Atomic Testing Museum and special exhibitions
- Invitations to member previews and special events
- The informative quarterly *News Nob* newsletter
- Free admittance to Atomic Testing Museum film showings
- Special discounts

Join today!

Contact the

Nevada Test Site Historical Foundation
 755 East Flamingo Road
 Las Vegas, NV 89119-7363
 702-794-5151



Environmental Management activities at Project Shoal area

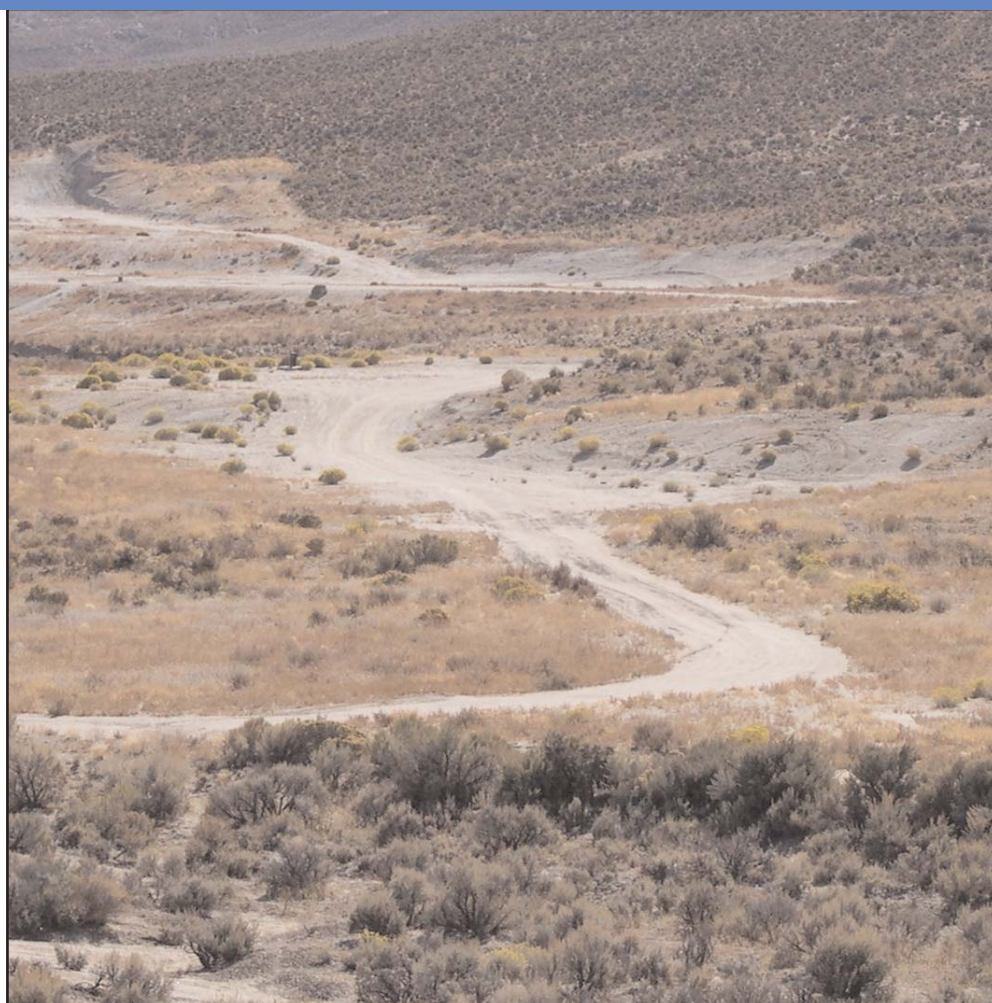
This spring, Stoller-Navarro Joint Venture (SNJV) will begin drilling three new monitoring wells ranging in depths between 1,640 ft. and 1,990 ft. at the Project Shoal Area, located approximately 30 miles southeast of Fallon, Nev.

Currently, there are eight monitoring wells at Project Shoal, of which four were put in place in 1996 with an additional four wells drilled in 1999. Based on data collected by the existing monitoring wells, two corrective action objectives have been identified: 1) to prevent or reduce exposure to groundwater contaminants of concern at concentrations exceeding regulatory maximum contamination levels or risk-based levels; and 2) to reduce the risk to human health and the environment to a feasible extent.

With these two objectives in mind, SNJV will be drilling an additional three monitoring wells to be placed down gradient from where the nuclear test took place. These wells will monitor for potential movement of contamination to make sure that it does not go past set compliance boundaries. The distance between the monitoring wells and the boundary will take into account the need to provide early warning to allow time for reaction in the event of unanticipated contaminant migration.

The long-term monitoring of these wells will provide the following:

- A means to evaluate the groundwater transport model
- A system with high-detection probability that takes into account uncertainty in the migration pathways
- A system for early detection of radionuclide migration rates in excess of what has been predicted by the model
- Assurance to the public and the regulators that public health is not compromised
- Compliance monitoring of physical parameters to demonstrate that groundwater conditions have not significantly changed from those simulated in the previous model
- Achieving site closure and minimizing long-term risk of public exposure to contaminated groundwater
- Achieving all of these objectives while providing the best value to the taxpayers



The Project Shoal test area as it appears today. (photo courtesy of Michelle Meade)

Although the U.S. Department of the Interior - Bureau of Land Management maintains ownership of the land, a land withdrawal allows the DOE and the U.S. Department of Defense (DoD) to manage the site.

Project Shoal Area, located in Northern Nevada, was the site of an underground nuclear test conducted jointly in 1963 by the DoD and the U.S. Atomic Energy Commission (predecessor to the U.S. Department of Energy - DOE). As part of the Vela Uniform program, the test was designed to improve the nation's ability to identify and locate underground nuclear explosions.

Lessons Learned

Serious Accidents throughout DOE complex increase in January

In a recent Department of Energy (DOE) Environment, Safety and Health Advisory, it was reported that in the first month of calendar year 2006, the DOE complex had already experienced 19 events where individuals suffered broken limbs, severe burns, or lacerations.

Three of the injury events required Class B Accident Investigations, which are at a level just below a fatality accident. Here are examples of the events:

- On Jan. 3, 2006, while installing floor grating panels at the K-25 Building at Bechtel Jacobs in Oakridge, Tenn., an employee fell approximately 40 feet when a concrete floor panel collapsed under him. The employee suffered a broken leg and broken arm.
- On Jan. 11, 2006, while operating a table saw at the Heyrend Way Facility in Idaho Falls, a worker suffered a severe hand injury when the saw blade amputated his pinkie finger and cut across the palm. The injured worker underwent surgery and was hospitalized for more than five days.

Based on the information provided, here are some contributing factors to these events:

- Behavioral lapses
- Inattention to work surroundings
- Failure to properly identify and analyze hazards
- Noncompliance with written procedures and the required Occupational Safety and Health Administration requirements

To prevent the DOE and its contractors from letting these events become a trend for this year, the Office of Environment, Safety and Health recommends that work planners and supervisors reflect on the following suggestions:

- Are key work processes implemented as designed and are they periodically assessed to eliminate weaknesses that could affect human performance? Key work processes include planning and scheduling, plant modifications, work controls, and use of operating experience documents such as lessons learned to prevent future adverse events or improve performance.
- Do work preparation and pre-job briefings identify critical actions, potential human errors, and effects on the facility, contingency plans, and applicable operating experience?
- Are procedures and other work documents verified and validated for accuracy and usability? Are deficiencies corrected promptly?
- Are changes to work plans and work schedules

critically reviewed for unanticipated conditions that can cause errors or have an undesirable effect on the facility?

- Do our root cause analyses identify the organizational process and individual contributors to human performance events?

Additionally, individual workers must ask:

- Am I alert and ready to perform work? Are there personal situations on my mind that could distract me from performing work safely?
- Am I watchful for conditions or activities that can have an undesirable effect on my work performance or safety?
- Do I stop work when I encounter changed or uncertain conditions?
- Do I properly follow procedures and other work documents?

Do I promptly report deficiencies and suggested improvements in processes, documents, equipment, and the workplace?

Reviewing the questions provided by Environment, Safety and Health can provide work planners and supervisors, as well as individual workers, assistance to benefit from the mistakes of others to keep us safe at the Nevada Site Office.



The Occupational Medicine Department focuses on lung cancer

Lung cancer is the leading cause of cancer deaths in the United States for men and women.

And the recent death of actor Christopher Reeves' wife Dana due to lung cancer suggests that not every cause is known with certainty.

In 2002, over 180,000 men and women were diagnosed with lung cancer; of those, about 157,000 died from the disease.

While smoking accounts for nearly 90 percent of lung cancer, other causes include exposure to second hand smoke, radon, asbestos, vinyl chloride, nickel chromates, arsenic, and coal products. There is some evidence that genetics play a role in an individual's susceptibility to develop lung cancer.

Fortunately, unknown causes of lung cancer are uncommon while the known cause - tobacco use - remains the most common risk factor. Therefore, it seems logical that major preventive and control efforts should be directed toward smoking cessation.

What is lung cancer?

Most lung cancers start in the lining of the airways called bronchi. It appears that lung cancer actually develops over many years with the first suspicious changes occurring without any evidence of their presence detected through testing. By the time detectable changes occur on chest x-rays and CT (computerized axial tomography) scans, some of these now fully cancerous cells may have spread to other parts of the body. Once cancerous cells have metastasized (or spread), the chances of curing the lung cancer or improving survival are significantly reduced.

Can we screen for lung cancer?

Screening for lung cancer means the detection of changes of lung cancer before symptoms are present and would result in an improved chance of survival. Unfortunately, lung cancer has often already metastasized before being detected.

Scientific studies have been done on the use of periodic chest x-rays and testing the sputum of high risk individuals. These studies have concluded that such testing could not find many lung cancers early enough to improve a chance for a cure. However, there is currently a large scientific trial underway using "spiral or helical low dose CT scanning" of high risk people, where about 50,000 people have been studied so far.

In the near future, we should discover if this more sophisticated testing technique is able to detect lung cancer soon enough to save lives.

Unfortunately, there is one problem with this new CT technique - it can find "abnormalities" that turn out not to be cancer and result in unnecessary testing and even surgery. To summarize, there is no current scientific evidence that screening helps people (with lung cancer) live longer.

What can be done to prevent lung cancer?

According to the National Cancer Institute (NCI), cigarette smoking causes 87 percent of lung cancer deaths. Furthermore, the U.S. Environmental Protection Agency has estimated that "environmental tobacco smoke" (e.g. second hand smoking) causes about 3,000 lung cancer deaths each year in the United States. Other lung carcinogens include radon gas, asbestos, arsenic, silica, chromates, and coal-based products. Radon exposure occurs in our homes as a naturally occurring substance in the soil

while the others listed above are usually industry-based exposures.

Additionally, the Centers for Disease Control and Prevention recommend the following measures to reduce the risk to develop lung cancer:

- Don't smoke, which includes cigars and pipes as well as cigarettes.
- Avoid second hand smoke.
- Make your home and workplace safer. Radon detectors are commercially available. Follow worker and safety guidelines at your workplace.
- Eat lots of fruits and vegetables.
- Future developments in "chemoprevention," which studies substances (medications, foods, vitamins, chemicals, minerals) that may decrease the risk of lung cancer. See the NCI Fact Sheet on Chemoprevention on the Web.

Lung cancer is one major killer of Americans that we can impact in a positive manner if cigarette use is stopped. Nine out of ten cases of lung cancer could conceivably be prevented with that one public health effort. And while all lung cancer cannot be completely eradicated, current research may yet discover the cause of the remaining 13 percent of those with lung cancer who don't smoke and thus, prevention may be possible.

Other sources of good information about lung cancer and other types of cancer are listed below:

- www.cdc.gov/lungcancer
- www.mayoclinic.com/health/lung-cancer
- www.cancer.org
- www.cancer.gov/cancertopics



Face-to-Face

Name: Theresa Jefferson
Company: Wackenhut Services, Inc.
Job Title: Security Specialist
Hometown: Alexandria, La.
Hobbies/Interests: Arts and crafts (with granddaughter), family, friends, going to movies, watching classic television movies, and music



Safety tips for the garden

According to the National Gardening Association, two out of three American households take part in some gardening activity each year. Whether you're a master gardener or an amateur, keep these safety tips in mind.

- **Warm up** - Take a brisk walk and/or stretch before heading to the garden area.
- **Avoid exposure to the sun** - Limit the time you spend working in direct sunlight by gardening in the early morning, late afternoon, or early evening. Use sun screen and wear a wide-brimmed hat.
- **Use personal protective equipment** - Wear gloves, sturdy shoes, and safety glasses; use a dust mask in a dusty or dirty environment; wear earplugs to reduce noise.
- **Lift by using your arms and legs** - Lift steadily with your legs. Use your hands, not just your fingertips, to get a firm grip on the load.
- **Carry objects close to your body** - This reduces the risk of neck and back strain. Make sure you can see over and around the object carried.
- **Find a comfortable position** - Move with your work and use tools to assist you.
- **Protect your back** - Rise up from a sitting or a crouched position by straightening your legs at the knees, not by lifting your torso at the waist.
- **Rotate tasks** - Working too long in one position, especially one that is awkward or unusual, reduces circulation and restricts mobility.
- **Be careful with power equipment** - Read the equipment manual and follow all instructions. Handle gas carefully; fill up before you start when the engine is cold. Never work on equipment when it is running.
- **Don't overexert** - Know your strengths and limitations and take regular rest breaks.

Be careful of children and pets during gardening activities - Both are curious and fascinated with tools, liquids, and moving parts. Provide supervision to ensure their safety.

MILESTONES

Bechtel Nevada

- 35 years** Nevada Test Site - Lyn Young
- 30 years** Las Vegas - Edward McCrea, Theresa Zellers; Nevada Test Site - Wilma Oyer; Remote Sensing Lab - Nellis - Timmy McCreary
- 25 years** Las Vegas - Nancy Gines; Nevada Test Site - Richard Fairbanks, Chuck Fauerbach, , Kenneth Parker, John Pernice, Michael Ray, Lawrence Tudor
- 20 years** Las Vegas - Robert Gasperino, Patricia Hellebrand, Lisa Robinson; Nevada Test Site - Rodney Webb
- 15 years** Las Vegas - Diane Pienkos, Dillard Vincent, John Whiteman; Nevada Test Site - James Millan
- 5 years** Las Vegas - Gary Hammock, Suzanne Lee, Teresa Nightengale, Ricky Reiger; Nevada Test Site - Dennis Burkhart, Thomas Collens, Gregory Doyle, John Dwyer, Timothy Hammond, Paul Lipkowitz, Mark Remington

Desert Research Institute

- 20 years** Brenda Cristani
- 15 years** Paul Buck, Harold Drollinger

Team CNSI

- 5 years** Richard Stegner

Wackenhut Services, Inc.

- 20 Years** Bruce Gasta, Carrie McClain, Maurice Mulcahy, John Poulos, Lloyd Sydnor

New Hires

- Las Vegas: Raymond Angell, Bobby McDaniel, Jonathan Myers;
- Nevada Test Site: Michael Casselbury, James Donovan, Jerry Griggs, Daniel Jensen, Rebecca King, Gerry McCutcheon

Retirements

- Dwight Burch, Bechtel Nevada
- Edward Cowle, Bechtel Nevada
- Victor Dunn, Bechtel Nevada

In Memory

- Janet Benson, former contractor
- Thomas Hadden, former contractor
- Wallace L. Hammer, former contractor
- Sandra Owens, Bechtel Nevada
- Edward Polosky, Bechtel Nevada
- William Shimek, former contractor

Face-to-Face



Name: Ryan Bellow
Company: Bechtel Nevada
Job Title: Software Specialist (projects include The BN Front Page, PAMS, and Plateau)
Hometown: Las Vegas, Nev.
Hobbies/Interests: Chiefs football, playing football, music, computer gaming, going out with friends.

Face-to-Face



Name: Steve Hommel
Company: Stoller-Navarro Joint Venture
Job Title: Communications Specialist
Hometown: Las Vegas, Nev.
Hobbies/Interests: With two kids, my hobbies are heating bottles, changing diapers, and watching Elmo and Bear in the Big Blue House. I also like to go "indoor skydiving" or to the movies and I am chapter advisor for UNLV's Delta Sigma Phi Fraternity and a Sunday school teacher for my local church.

Did you know that there are a number of news releases related to the Nevada Test Site on the World Wide Web?
 Go to <http://www.nv.doe.gov/library/news/default.aspx>

CALENDAR OF EVENTS

May 24

NTS Public Tour, open to interested members of the public. Sedan Crater, Frenchman Flat, Non-Proliferation Test and Evaluation Complex, T-1 Training Area drive by, Bilby Crater, Area 5 Low-level Radioactive Waste Management Site, Apple II houses. Contact Brenda Carter, BN (702) 295-0944.

Upcoming Conferences, Meetings, and Trade Shows

April 10-12

The National Contract Management Association presents World Conference 2006 at the Hyatt Regency Atlanta in Atlanta, Ga. The general topic is Achieving High Performance in Global Business Leadership, Outsourcing, & Risk Management. Keynote presenters will cover the following topics: Leadership in Global Business; Rising to the Challenges of Global Business, and Risk Management at NASA. For more information, go to <http://www.ncmahq.org/meetings/WC06/index.asp>.

April 17-21

The International Society for Optical Engineering presents the Defense and Security Symposium 2006 which includes the following topics: Technologies for Homeland Security and Law Enforcement; Tactical Sensors and Imagers; Laser Sensors and Systems; Intelligent and Unmanned Systems and Sensor Data Exploitation, and Target Recognition. The symposium takes place at Gaylord Palms Resort and Convention Center Orlando (Kissimmee), Fla. For more information, go to <http://spie.org/conferences/programs/06/dss/>.

April 22

The NNSA/NSO will feature a Kid's Display exhibit at the Earth Day celebration in Pahrump at Honeysuckle Park that will feature a number of activities, including educational games. This year, Earth Day is being sponsored by the Pahrump Nuclear Waste and Environmental Advisory Board. For more information, contact Karen Williams at (702) 295-7024 or David Swanson with the Nye County Nuclear Waste Repository Office at (702) 525-5260.

April 24 - 27

Representatives from U.S. Department of Energy and U.S. Department of Defense facilities across the United States will be meeting at the Nevada Support Facility for the NTS Waste Generator Workshop. Participants represent sites engaged in environmental cleanup activities which generate low-level and mixed low-level waste that is shipped to the Nevada Test Site for permanent disposal. The Workshop provides a

forum for participants to learn and share information and experiences related to cleanup and disposal activities at the Nevada Test Site and generator facilities. For more information, contact Dona Merritt at (702) 295-3082.

April 30-May 4

The American Nuclear Society presents the 2006 International High-Level Radioactive Waste Management Conference which takes place in Las Vegas, Nev. at the Texas Station Hotel and Casino. The conference is a forum for the discussion of the scientific, technical, social and regulatory aspects of the "back end" of the nuclear fuel cycle. These issues include waste generation, transportation, storage, treatment, disposal, and associated aspects (such as facility remediation, regulation, and stakeholder involvement). The conference is an opportunity for an exchange of information on current topics of interest among the international participants in nuclear waste activities. For more information, go to <http://www.ans.org/meetings/index.cgi?c=#ihlrwm06>.

May 7-12

The International Society for Optical Engineering presents the SPIE International Conference on High Power Laser Ablation at the Sagebrush Inn and Conference Center in Taos, N.M. Topics include fundamental theory; simulations; laser ablation propulsion and high power laser advances. For more information, go to <http://spie.org/Conferences/programs/06/hp/>.

May 13-16

The American Industrial Hygiene Association presents the 2006 conference, Practical Application of Ventilation for Emission and Exposure Control featuring prominent researchers, designers, equipment suppliers, engineers, practitioners, and government officials to explore the latest developments in ventilation-related emission and exposure controls. VENT 2006 will be held concurrently with AIHce 2006 at McCormick Place in Chicago, Ill. For more information, go to <http://www.aiha.org/Content/CE/aihce/aihce.htm>.

May 18-20

The American Society of Civil Engineers presents the 2006 Structures Congress on structural engineering and public safety at the Adam's Mark St. Louis in St. Louis, Mo. Early bird registration ends April 15. The conference will highlight theory, practice, and application of computation related to the analysis and design of engineering structures. For more information, go to <http://content.asce.org/conferences/structures2006/>.



April is:

National Alcohol Awareness Month

and

National Child Abuse Prevention Month



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 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, restivnm@nv.doe.gov, or 702-295-7045

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|-----------------------------|--------------------|-----------------------|
| Editor: | Steven Hommel | Kelly Snyder |
| Norma Restivo | LeeAnn Inadomi | Karen Sondrol-Maxwell |
| Bechtel Nevada | Al Karns | Nancy Tufano |
| | Michelle Meade | B.J. Willeford Jr. |
| Layout and graphics: | Darwin Morgan | |
| Norma Restivo | Jennifer Morton | |
| Bechtel Nevada | Gary Mousseau | |
| | Cheryl Oar | |
| Contributors: | Major Pete Reimer | |
| Doris Burnett | Norma Restivo | |
| Nick Duhe | Katherine Reynolds | |
| Elizabeth Federmack | Mitzi Sears | |
| Ron Gibson | | |

