



## *Nevada Operations Office News*

National Nuclear Security Administration

**News Media Contact:**

La Tomya R. Glass, 702-295-3521

*glass@nv.doe.gov*

Kirsten L. Kellogg

*kelloggk@nv.doe.gov*

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### **NNSA Dedicates \$18 Million Communication System**

At 9 a.m., Thursday, June 13, the National Nuclear Security Administration Nevada Operations Office (NNSA/NV) in conjunction with Motorola, Inc. and WebLink Wireless, Inc., will host a dedication ceremony for the recently installed Base Support Trunk Radio and Wireless Data system. The dedication ceremony will take place at the NNSA/NV's Nevada Support Facility, located at 232 Energy Way, North Las Vegas, Nevada.

“We are pleased to partner with Motorola and WebLink Wireless in this first-of-a-kind communication system in the state of Nevada, that has resulted in mutual benefits for Nellis Air Force Base and Nevada Highway Patrol,” said Kathleen Carlson, Manager, NNSA/NV. Additional, “The primary advantages of the system are faster access, better channel efficiency, user privacy, and flexible expansion.”

As part of a Congressional mandate to reduce the bandwidth of the federal wireless radio channels, the NNSA/NV embarked on an \$18 million project to replace and modernize the two-way radio and wireless data systems. The wireless data system portion of the project resulted in the installation of a new messaging computer, 14 transmitter and receivers sites, and antenna systems working in communication with a satellite downlink. The resulting network provides not only local coverage but nationwide, state-of-the-art, advanced messaging services. The two-way radio network replacement provided the engineering, design, installation, and site support for 10 mountain-top sites for the communications system. This trunking design is the mutual sharing of a small number of communications paths by a large number of users covering the Nevada Test Site and the metropolitan Las Vegas area.

The radio system is part of Motorola's extensive portfolio of integrated communications and information solutions to address mission-critical public safety and security requirements worldwide. Motorola is a leading provider of integrated communications and information

solutions with 65 years of experience in meeting the mission-critical requirements of public safety, public service, government and enterprise customers worldwide. The company's extensive public safety and security portfolio includes: interoperable two-way radio communications solutions with encrypted security capabilities; command and control equipment and software applications, including computer-aided dispatch, 9-1-1 and 3-1-1 systems, and automated records management systems; identification and tracking solutions, including palm/fingerprint and photo-imaging systems, as well as comprehensive information management capabilities for criminal justice and civil needs; and physical security and monitoring solutions, including remote monitoring and diagnostics.

“When work first began on this new digital communications system, the challenge simply was to design a wireless communications system that would provide the features, capabilities, security, and technological flexibility that the Nevada Test Site thought it might require for years to come,” said Jim Tucker, Motorola Communications and Electronics Vice President and Area Manager, U.S. Federal Government Markets Division. “Obviously, no one at that time knew how the Sept. 11 tragedy would alter the importance of mission-critical and interoperable communications. Yet, what we have learned is that this robust system provides the Department of Energy the platform it needs to meet the unknown challenges of the future. Motorola is extremely pleased to have been part of the team effort that has made this system a reality.”

WebLink Wireless was selected to upgrade the NNSA/NV's one way paging system to full two way wireless data communications. WebLink Wireless' network, based on the ReFLEX 25 protocol, is the largest of its kind, thus offering greater flexibility to employees as they travel throughout the Nevada Test Site and the United States. Due to the advanced technology of multiple simulcast transmission, WebLink's network offers reliability during times of disaster and crisis. Furthermore, the network offers superior signal penetration that allows Security Administration employees to receive messages deep inside buildings as well as below ground level. WebLink's network flexibility also benefits the NNSA/NV as it supports customized applications such as instant notification or emergency dispatch software that the organization may want to develop.

“WebLink Wireless is pleased to work with the NNSA/NV to update their communication system and to offer messaging devices that will make their communications more efficient,” said Rick Nelson, senior vice president of business sales at WebLink Wireless. “The success of this project is a perfect example of how other governmental agencies and state can upgrade their communications networks and become more effective with their wireless strategies.”

WebLink Wireless, Inc., a leader in the wireless data industry, operates the largest ReFLEX

network in the United States. The Dallas-based company provides two way wireless messaging, wireless email, mobile Internet information, customized wireless business solutions, telemetry, and paging to more than 1.5 million business and retail customers. WebLink Wireless is the preferred wireless data network provider for many of the largest telecommunication companies in the United States who resell services under their own brand names. WebLink's reliable multicast network covers approximately 90 percent of the U.S. population and, through roaming agreements, extends throughout most of North America. For more information on WebLink Wireless visit [www.weblinkwireless.com](http://www.weblinkwireless.com).

Representatives from Motorola, WebLink Wireless, Nellis Air Force Base, and the Nevada Highway Patrol have been invited to attend.