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LLNS PRESIDENT GEORGE MILLER NAMES KEY MANAGEMENT PERSONNEL

LIVERMORE, Calif., May 30, 2007 — With a focus on scientific and engineering excellence, best business practices, safety and security, Lawrence Livermore National Security, LLC (LLNS) President George Miller announced today his key personnel within the LLNS organizational structure.

The announcement was made during the first of a series of town hall meetings with Lawrence Livermore National Laboratory employees. LLNS will take over management of the Laboratory beginning Oct. 1.

LLNS is a limited liability corporation (LLC) made of five partners – the University of California, Bechtel, BWX Technologies, Washington Group and Battelle. Texas A&M University provides an academic alliance.

“The LLNS management team, working closely with Lawrence Livermore employees, will build on the Laboratory’s proud tradition of outstanding science and technology, while fully integrating world-class business systems and safety and security practices,” Miller said.

Miller emphasized the LLNS management team will take an integrated approach, “capitalizing on the strengths of the LLNS partners as well as the efforts of each Laboratory employee.”

“I recognize the value that all the employees bring to this Laboratory, and I want to ensure you under my team’s leadership LLNS will continue to value and nurture this tremendous talent and focus it on helping to solve important issues facing our nation,” Miller emphasized.

The new organizational structure includes Miller as Laboratory direction and Steve Liedle as deputy director. The LLNS management team is organized five areas headed by principal associate directors: Science & Technology, Operations & Business and three mission areas – Global Security, National Ignition Facility (NIF) and Photon Science and Weapons and Complex Integration.

A principal associate director for each of the five areas are:

- Cherry Murray – Science & Technology
- Frank Russo – Operations & Business
- John Doesburg – Global Security

- Ed Moses – NIF and Photon Science
- Bruce Goodwin – Weapons and Complex Integration

Thirteen additional key personnel have been named:

- Melissa Allain – Laboratory Counsel
- Harold Conner Jr. – Facilities and Infrastructure associate director
- Dona Crawford – Computation and Simulation associate director
- Tomas Diaz de la Rubia – Chemistry, Materials & Life Sciences associate director
- William Goldstein – Physical Sciences associate director
- Pamela Horning – Nuclear Operations associate director
- Tamara Jernigan – Strategic Human Capital Management associate director
- Kirkland Jones – Contractor Assurance Officer
- David Leary – Business associate director
- Allen Macenski – Environment, Safety, Health and Quality director
- Russell Miller – Safeguards and Security director
- Steven Patterson – Engineering associate director
- Linda Rakow – Chief Financial Officer

The leadership team will be meeting with Laboratory employees over the next several months to discuss in greater detail employee input; Laboratory vision, the organization structure and mapping of responsibilities.

Biographical information

George Miller has been director of Lawrence Livermore since 2006. From 2000 to 2005, Miller was associate director (AD) for the National Ignition Facility. He took charge of the struggling project, created a new project baseline, brought together a new management team, and convinced NNSA and the scientific community of the importance of going forward with the project. Miller's earlier positions at LLNL include AD for National Security and AD for the Nuclear Weapons Program. He also served as an adviser to Secretary of Energy Adm. James Watkins on Department of Energy weapons laboratories and the nuclear weapons program. He advises the Department of Defense commander of the U.S. Strategic Command through the Strategic Advisory Group and as chair of its Science and Technology Panel. Miller received his doctorate and master's degrees in physics from the College of William and Mary in Williamsburg, Va.

Steve Liedle is a Bechtel principal vice president with 25 years of Department of Energy/National Nuclear Security Administration (NNSA) experience. He has 21 years of experience in safely managing facilities containing high-hazard radioactive and chemical materials, such as uranium, plutonium and fission products. With Bechtel since 1982, Liedle served as deputy general manager of BWXT Y-12 from 2004 to 2007, where he managed all defense and work for others programs. From 2001 to 2004, he was president and general manager of Bechtel Jacobs Co. (Oak Ridge National Laboratory), responsible for five major sites. From 2000 to 2001, he was president and general manager of the Nevada Test Site (NTS) contract with responsibility for supporting stockpile stewardship through subcritical and weapons physics experiments, nuclear test readiness and emergency management. Liedle has a doctorate

in environmental science and engineering from the University of California at Los Angeles, and a master's degree in oceanography from the University of Wisconsin.

Cherry Murray has 22 years of experience, 12 at the executive level, in managing large multidisciplinary research and development projects. She is an accomplished scientist and member of three national science academies: the National Academy of Sciences, the National Academy of Engineering and the American Academy of Arts and Sciences. As Lawrence Livermore's deputy director for Science and Technology (S&T) from 2004 to 2007, she developed LLNL's strategic S&T plan and set standards for scientific research and program quality. She developed and maintained the core capabilities needed to support LLNL's long-term science needs for stockpile stewardship, Nuclear Weapons Complex integration, the National Ignition Facility, nonproliferation and work for others programs. She has served on more than 80 national and international scientific advisory committees, governing boards and National Research Council (NRC) panels. She was elected vice president of the American Physical Society (APS) for the year 2007 and will rotate into the presidency. Murray holds a doctorate in physics from the Massachusetts Institute of Technology.

Frank Russo, a Bechtel principal vice president, has 34 years of operations and business experience and a history of saving millions of dollars at Department of Energy (DOE) facilities. As president and general manager of the Advanced Mixed Waste Treatment Plant at Idaho National Laboratory, Russo directed all company activities and used Lean Six Sigma methods to integrate business systems and operations, accelerating production 1,000 percent and achieving \$6 million in annual savings. From 2001 to 2005, Russo was general manager of the Idaho Completion Project and director of project/program management for Bechtel BWXT: Idaho. He began his Bechtel career in 1973 in construction, supporting 10 international and domestic nuclear projects. He received a bachelor's degree in political science and history from Pace University and attended Stanford University's Executive Management Program and University of Texas' Construction Engineering Program.

John Doesburg has 37 years of experience applying science and technology for development of global security solutions. Since leaving the U.S. Army as commanding general of U.S. Army Research, Development and Engineering Command in 2004, he has been University of Tennessee - Battelle's Director of Homeland Security Programs and a program director in National Security Directorate at Oak Ridge National Laboratory. During his 34-year army career, Doesburg served as senior chemical and biological defense officer and was responsible for weapons of mass destruction (WMD) defense policy and operations. As physical science officer for the U.S. Arms Control and Disarmament Agency, he prepared national policy recommendations for decisions at the presidential level regarding chemical and biological arms limitations and agreements, including the Conference on Disarmament in Geneva. Doesburg received his master's degree-equivalent in national security from the U.S. Army Command and General Staff College and a bachelor's degree in chemistry from the University of Oklahoma.

Bruce Goodwin has been the associate director of Defense and Nuclear Technologies at Lawrence Livermore since 2001. He has been a key player in the success of the nuclear weapons program since 1981, first at Los Alamos National Laboratory and then at LLNL since 1985. He led the process to certify LLNL nuclear weapons and was responsible for establishing priorities, developing strategies and designing and maintaining LLNL's nuclear weapons; for the past six years he has been responsible for leading the Stockpile Stewardship Program. Goodwin oversaw the design of LLNL's proposed reliable replacement warhead to streamline manufacturing, and

developed the JASPER facility, which markedly reduced the costs of tests. Goodwin received his doctorate and master's degree in aeronautical and astronautical engineering from the University of Illinois, and a bachelor's degree in physics from City College of New York.

Ed Moses has 18 years of experience developing Department of Energy/National Nuclear Security Administration laser systems and 30 years of experience developing and managing complex laser systems and high-technology projects. As project manager and then associate director (AD) for the National Ignition Facility (NIF) Program, he has been responsible for managing the design, construction and bringing into operation the world's largest laser and optical instrument. He also is the National Ignition Campaign director, leading a multi-laboratory effort to demonstrate fusion on the NIF. Moses joined Lawrence Livermore in 1980, becoming program leader for Isotope Separation and Material Processing, and deputy AD for Lasers. From 1990 to 1995, he was a founding partner of Advanced Technology Applications, which advised clients on proposing on and designing high-technology projects. He returned to LLNL in 1995 as assistant AD for program development, Physics and Space Technology. Moses received his bachelor's degree and doctorate from Cornell University in New York.

Melissa Allain has 25 years of legal experience and has been Laboratory counsel for Lawrence Livermore since 2005. She has provided legal oversight and support to the LLNL contract and its related activities and has served as the Laboratory ethics officer. Before coming to LLNL, Allain was in private practice at several law firms where she advised on environmental compliance, insurance coverage and remediation cost recovery, and dealt in the criminal enforcement context with the Internal Revenue Service and Department of Defense. She also represented clients in civil litigation, including toxic tort actions, and in administrative and enforcement proceedings, including government contract matters. Allain received her doctor of jurisprudence from Harvard Law School.

Harold Conner has 40 years of Department of Energy/National Nuclear Security Administration experience leading non-nuclear, nuclear, low-hazard and high-hazard operations. He has a record of cost effectively and safely managing and revitalizing facilities and infrastructure at Savannah River Site (SRS), Y-12, K-25, and Idaho National Laboratory Engineering and Environmental Laboratory (INEEL). He was in a leading management role at SRS for Washington Group from 2000 to 2007, where he led infrastructure management, defense programs, nuclear nonproliferation, nuclear materials management and spent fuels. Conner began his professional career at Lockheed Martin advancing from site manager to vice president of Environmental Safety, Health and Quality to executive vice president and chief operating officer with oversight responsibility of all INEEL operations. Conner received his master's and bachelor's degrees in chemical engineering from the University of Tennessee.

Dona Crawford has 31 years of computational management experience at Lawrence Livermore and Sandia national laboratories. She was associate director, Computation, at LLNL from 2001 to 2007, with responsibility for providing an integrated computing environment for tera-scale simulations of complex physical phenomena. This environment includes high-performance computers, scientific visualization facilities, high-performance storage systems, network connectivity, multiresolution data analysis, mathematical models, scalable numerical algorithms, computer applications and IT services that enabled LLNL mission goals and scientific discovery through simulation. Icons for the computing environment provided include the Advanced Simulation and Computing (ASC) Program's BlueGene/L (BG/L) machine and the ASC Purple machine. BG/L currently is the fastest computer in the world, and Purple is ranked No. 4. At

Sandia from 1976 to 2001, Crawford served on many leadership projects. She has also served on advisory committees for the National Science Foundation, the National Research Council, and is active in the U.S high performance computing conference series. She received a master's degree in operations research from Stanford University and a bachelor's degree in mathematics from the University of Redlands, Calif.

Tomas Diaz de la Rubia has been the associate director for Chemistry, Materials and Life Sciences since 2002, managing programmatic science for the National Ignition Facility (NIF), Defense and Nuclear Technologies and Advanced Simulation and Computing; emerging programs in weapons of mass destruction countermeasures; and basic science programs for the Department of Energy and Laboratory-directed research and development. At LLNL since 1989, he has been Materials Program leader for NIF, deputy division leader for science and technology in the Materials Science and Technology Division, and scientific capabilities leader for Computational Materials Science. He is a member of the Materials Research Society and was on its board of directors from 2001 to 2005 and a member and fellow of the American Physical Society in 2001. Diaz de la Rubia received his bachelor's degree in physics from the State University of New York and completed his doctorate in 1989.

Bill Goldstein has 21 years of leadership experience in physical science at Lawrence Livermore. As associate director of Physics and Advanced Technologies since 2000, he has had responsibility for a broad range of physics research and development, including nuclear, particle and accelerator science; condensed matter and high-pressure physics; fusion energy; medical physics and biophysics; optical sciences and instrumentation; and high-energy-density physics. He oversees the Livermore branch of the University of California's Institute of Geophysics and Planetary Physics and the Institute for Laser Science and Applications, which strengthens collaborations between LLNL laser researchers and the academic community. He led the creation of the Jupiter Laser Facility and, in 2006, oversaw completion of Titan, a unique new Jupiter Laser Facility capability. Goldstein received his doctorate in theoretical physics from Columbia University, New York, and a bachelor's degree in physics from Swarthmore College in Pennsylvania.

Pam Horning was vice president, operational assurance with BWX Technologies from 2005 to 2007. She was responsible for ensuring that consistent and rigorous operational and safety best practices and continuous improvement were applied across BWXT's 15 Department of Energy and commercial sites, all of which involved complex, high-consequence nuclear and national security operations. Horning began her career in BWXT's Naval Operations Division in 1983 and held positions of increasing responsibility, from quality assurance engineering and operations management, to project management, to directing enriched uranium operations and uranium manufacturing modernization. She received her master's degree in engineering administration from George Washington University in Washington D.C. and her bachelor's degree in chemical engineering from Purdue University in Indiana.

Tammy Jernigan was principal deputy associate director of the Physics and Advanced Technologies Directorate at Lawrence Livermore from 2001 to 2007. Her responsibilities encompassed a broad range of research and development activities, including basic and applied science, strategic human capital management, workforce planning, recruiting, mentoring, training and succession planning. From 1985 to 2001, Jernigan was a NASA astronaut and served in key technical and management positions with a leadership role on five high-visibility, high-consequence space shuttle missions. She has 22 years of experience in scientific and

operational leadership. Jernigan received a doctorate in space physics and astronomy from Rice University in Houston, Texas; a master's degree in astronomy from the University of California in Berkeley; and a master's in engineering science and a bachelor's degree in physics from Stanford University.

Kirkland Jones was vice president and director of Environmental Safety and Health (ES&H) with DynMcDermott Petroleum from 1995 to 2007. He had responsibility for the company's Contractor Assurance System (CAS); management of the corporate ES&H staff and the integrated safety management (ISM) systems; and performance of environmental, safety and organizational assessments. He has 18 years of Department of Energy leadership experience and is experienced in all aspects of CAS implementation in compliance with DOE requirements, including assessments, reporting, issues management, lessons learned and performance measures. He is a registered ISO 14001, 2000, Environmental Management System lead assessor; an ISO 9001, 2001, Quality Management System assessor; a Certified Master Hazardous Materials manager, master's level; and a Special Government Employee (VPP assessor), OSHA.

Dave Leary served as Lawrence Livermore deputy director for Operations and associate director for Laboratory Services from 2003-2007. During this time he was responsible for all LLNL business operations, including budget and financial controls. In his 34 years with the Laboratory, he has reorganized and revitalized functions and operations, standardized tools and instituted internal controls that resulted in significant cost savings. Leary came to LLNL as a member of the Safeguards and Security Department. He joined LLNL Business Operations in 1988. Leary is a member of the DOE Personal Property Management Council, chair of the LLNL Performance Assurance Board, and chair of the LLNL Strategic Operations Forum. He received his master's degree in police science and administration from Washington State University, and a bachelor's degree in sociology from Illinois State University.

Allen Macenski has 37 years of Environmental Safety and Health (ES&H) experience, including nine years of oversight and involvement in Department of Energy programs. As Bechtel's ES&H services manager, he recently implemented four ES&H initiatives, including assistance to the Hanford Waste Treatment Plant, Savannah River Site, and Yucca Mountain to prepare and submit a compliant worker safety and health program. As assistant general manager of ES&H at the Nevada Test Site from 2003 to 2006, he revitalized the safety culture by instituting a comprehensive ES&H program. Macenski began his Bechtel career in 1997 as corporate manager of Environmental, Safety and Health Services. Macenski holds a master's degree in environmental/occupational health sciences from California State University. He also has a law degree from Northrop University School of Law in Inglewood, Calif.

Russ Miller has 36 years of security leadership experience in government, corporate and National Nuclear Security Administration (NNSA) environments, including six years at Lawrence Livermore from 2001 to 2007. As the head of the Physical Security Department, he led LLNL's Integrated Safeguards and Security Management program that integrates all strategic operational activities associated with the protection of personnel, information, property and nuclear materials in accordance with federal regulations, Department of Energy/NNSA orders and LLNL policies and performance criteria. Miller's previous experience includes 24 years in the Secret Service, from 1971 to 1995, where he directed all personal physical protection activities for the president of the United States at the direction of the special agent in charge.

Miller received his bachelor's degree in Business Administration and Marketing from California State University in Chico.

Steve Patterson has 17 years of experience managing large National Nuclear Security Administration projects and programs, 10 years as a professor of precision engineering, and 25 years of hands-on experience from his precision engineering business. Currently, he directs the development of cutting-edge precision engineering technology in support of Lawrence Livermore's mission, including weapons, the National Ignition Facility, and global security programs, as well as the other science and technology directorates. Before joining LLNL in 2003, Patterson spent 10 years as a distinguished professor of precision engineering at the University of North Carolina. He has a doctorate and master's degree in applied science from the University of California at Davis, and a bachelor's degree in physics from the California Institute of Technology in Pasadena.

Linda Rakow has more than 20 years of experience in financial management at Lawrence Livermore. Chief financial officer at LLNL since 2004, Rakow manages a \$1.6 billion budget and provides financial leadership, including the development and implementation of enterprise financial systems. Previous positions at LLNL include assistant deputy director for Business and Finance and assistant deputy director for Strategic Operations. She worked at the Nevada Test Site for 10 years, first studying site ecology and then leading a team that created a database for the nuclear testing program. Rakow received her master's in business administration from the University of the Pacific in California and her bachelor's degree in microbiology from the College of Charleston in South Carolina.

Detailed biographies and photos are available on the LLNS Website, www.llnslc.com.

The LLNS team was formed to manage and operate Lawrence Livermore National Laboratory by entities renowned for their expertise and accomplishments throughout the DOE nuclear weapons complex and beyond. Bechtel is the largest project management contractor in the United States. The University of California is the world's largest academic research institution. BWX Technologies and Washington Group International are the top two DOE nuclear facilities contractors and between them manage and operate four of DOE's five safest sites. Battelle is a global leader in science and technology and commercializes technology, performs contract research and manages laboratories for government and industry. The team also includes Texas A&M University, which provides programs in homeland security and national security.

