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The



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Message

Welcome!

On October 1, 2006, the Secretary of Energy created the Office of Health, Safety and Security (HSS) to integrate Department of Energy Headquarters-level functions for health, safety, environment, and security into one unified office. To accomplish this important responsibility, HSS is focused on providing the Department with effective and consistent policy development, technical assistance, education and training, complex-wide independent oversight, and enforcement. Additionally, HSS addresses Department-wide cross-cutting issues and enhances collaboration and sharing of technical expertise.

We have organized HSS to promote the sharing and integration of information and to ensure clear responsibilities and accountability for these important functions within our organization. (An interactive organizational chart is available at <http://www.hss.energy.gov/hssorgchart.html>)

To facilitate our role, HSS strives to maintain a close working relationship with the NNSA Administrator and the Under Secretaries of Energy and Science. To promote this relationship and to obtain feedback on issues related to health, safety, environment, and security, HSS senior management conducted visits throughout the DOE complex and met with program office, site office, contractor management, and union representatives, as well as external organizations.

HSS has also formed the Health, Safety and Security Managers Focus Group to solicit, discuss, and address topics and issues of

interest to DOE managers and stakeholders to further the improvement of health, safety, environmental, and security performance within the Department. To date, meetings have been conducted with NNSA, Science, and Yucca Mountain Project.

HSS has led a Personnel Security Task Force Review that resulted in recommendations accepted by the Secretary of Energy to enhance the DOE personnel security program and prevent recurrence of the recent LANL incident. These recommendations include enhancing mandatory training, strengthening Departmental policy on drug testing, enhancing quality assurance oversight to increase confidence in the suitability of those granted a clearance, and revising the organizational structure to increase the authority and ensure accountability for the personnel security program.

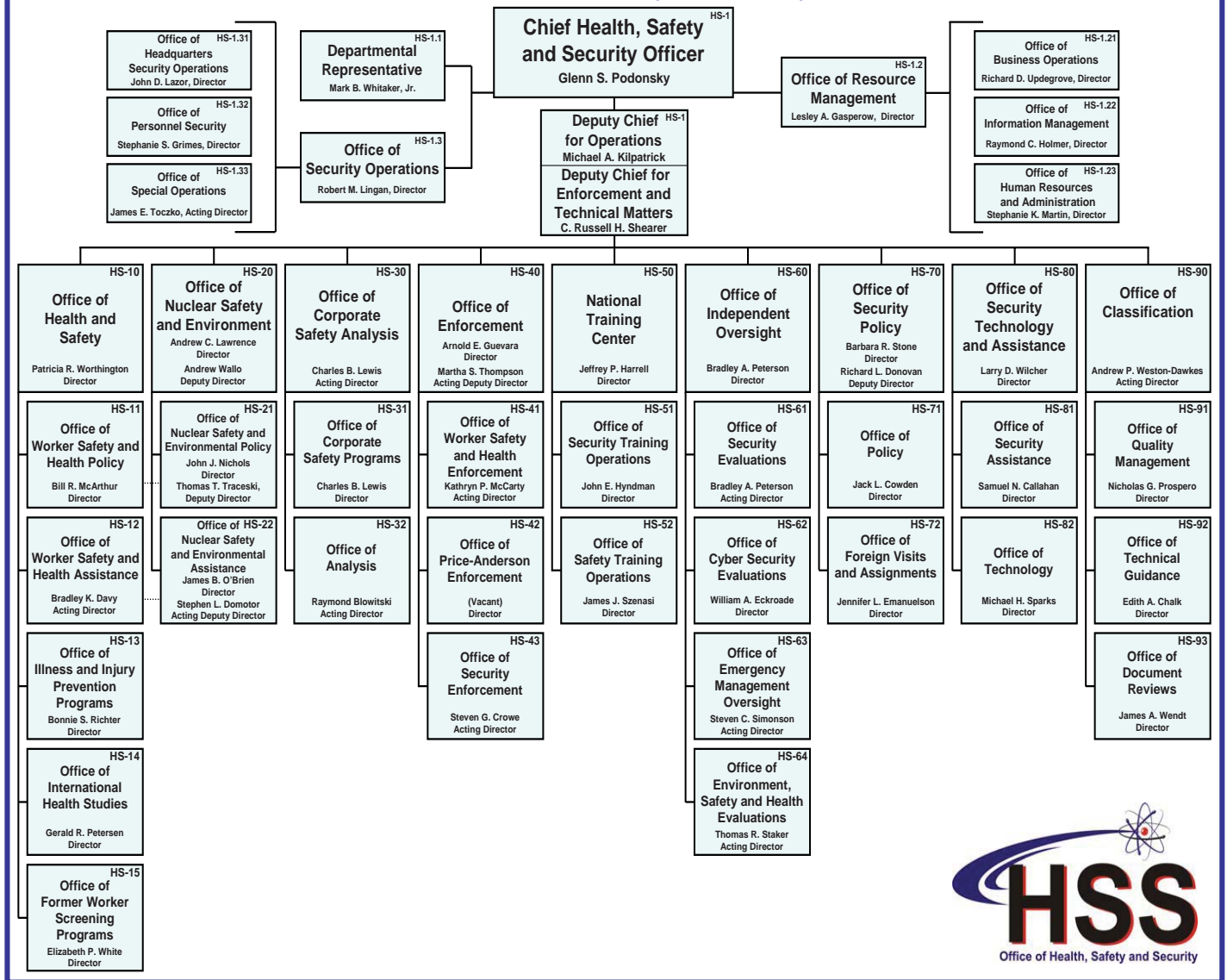
Other Department-wide efforts that HSS has led since October include implementation of a Differing Professional Opinion Program, and a review to enhance management systems supporting employee assistance, as a result of recent onsite suicides.

HSS was created to support line management in its implementation of health, safety, environmental protection, and security programs. It is our mission to work with line management to enhance the effectiveness and efficiency of these programs by providing more effective and consistent policy, assistance, independent oversight, training, and enforcement.

Over the past six months, HSS offices have initiated or completed the activities discussed in this issue. ■

Office of Health, Safety and Security

4-01-07



Departmental Representative to the DNFSB, HS-1.1

HS-1.1 provides effective cross-organizational leadership in resolving technical and management issues related to the Defense Nuclear Facilities Safety Board (DNFSB) to ensure public health and safety. HSS maintains a detailed web site that allows us to quickly and efficiently distribute information throughout the Department of Energy complex—an important part of our role. The office is in the process of completing the Department’s Annual Report to Congress on Board-related activities, which will soon be available as a useful summary for Department personnel on

key safety initiatives and accomplishments during 2006. Recently, HS-1.1 focused on coordinating the Department’s preparation for the DNFSB public meeting, conducted on March 22, on the topic of effectively integrating safety into design and construction. This is one of the Board’s most significant issues, and the Department is working hard to maintain the initiative on this issue. The Department and the Board are also working together on a joint report to Congress on this topic, currently targeted to be completed this June.

HS-1.1 is also coordinating preparations for the annual Facility Representatives workshop on May 15-17, 2007, in

Las Vegas, NV. The DOE Facility Representatives are DOE employees who work for the field offices and provide direct oversight and operational awareness of contractor activities. This workshop is usually attended by 60 to 70 DOE Facility Representatives from across the complex (about 30 to 35 percent of the Department’s total) as well as DOE senior managers, Facility Representative program managers, and invited speakers on selected safety topics. The DOE Facility Representative of the Year Award will be presented at this workshop. A meeting of the Federal Technical Capability Panel will be held in conjunction with the workshop. ■

Office of Resource Management, HS-1.2

HS-1.2 supports the infrastructure of HSS by providing technically competent and customer focused services in the areas of: (1) Financial Management, including budget formulation and execution; (2) Procurement Management, including contract and credit card programs; (3) Information Management,

including technology-based solutions and programs; (4) Quality Assurance; (5) Human Resources, including recruitment and retention programs; (6) Administrative Services, including property management, travel, and work space management; and (7) Strategic and Program Planning, including performance and efficiency measures.

This office continues to work very closely with the Department's staff offices, including the Offices of the Chief Financial Officer, Procurement, and Human Capital, to ensure that HSS has the necessary budget, procurement, and personnel to fulfill the mission and functions of HSS. ■

Office of Security Operations, HS-1.3

HS-1.3 provides security for the DOE Headquarters facilities in the National Capital Area, managing access authorization functions, ensuring that executives and dignitaries are fully protected, and supporting efforts to ensure the continuity of government in all circumstances as mandated by Presidential Decision Directive. HS-1.3 manages the personnel security program for DOE Headquarters as well as Department-wide programs, such as Administrative Review Procedures, the Accelerated Access Authorization Program (AAP), the classified visit program, and associated databases. To improve Headquarters security, HS-1.3 recently upgraded the Central Alarm

Station (CAS) at both the Germantown and Forrestal locations. This redesign accomplished its goal of increasing officer safety and ergonomic efficiency. The CAS operators now have improved methods for viewing mission-critical information about activities across both facilities. Radio frequency (RF) attenuation bags were designed and tested by the Headquarters Technical Surveillance Countermeasures Team to assure that they successfully block radio frequencies to and from personal electronic devices, thus permitting certain devices to be stored in security areas. The RF bags compensate for the risks associated with bringing cellular phones and BlackBerry type devices

into limited and exclusion areas. RF bags have been deployed throughout Headquarters. Additionally, the office, working in concert with the Protective Services Working Group and the Federal Law Enforcement Training Center (FLETC), led the development of a Federal Protective Service Operations Training Program for use throughout the Federal Government. The first course was conducted in October 2006, and a second course is planned for April 2007. This program is the first step toward a standardized approach to promote a higher degree of consistency and state-of-the-art training for Executive Protection Programs throughout the Federal Government. ■

Office of Health and Safety, HS-10

HS-10 establishes worker safety and health requirements and expectations for the Department to ensure protection of workers from the hazards associated with Department operations. The office has recently focused on developing various tools and guidance to help DOE sites implement the requirements of the new Worker Safety and Health Program Rule (10 CFR 851). This regulation is designed to ensure that workers have a safe workplace and are protected from hazardous materials. The office

also worked with Headquarters and field elements to strengthen Integrated Safety Management and to expand the Voluntary Protection Program so that it is more effective in achieving its ultimate goal of protecting workers. The office is also actively working on a number of initiatives relating to the current and former worker health programs, such as a detailed analysis of illnesses and injuries among current workers across the DOE complex, providing medical screening and

surveillances for former workers, and supporting the information needs of the Energy Employees Occupational Illness Compensation Program Act. International health studies provide for environmental monitoring, medical screening, and health services for individuals who have been exposed to radiation, as well as health studies on the long-term effects of exposure to radiation. ■

Office of Nuclear Safety and Environment, HS-20

Since its inception, HS-20 has encouraged consistent nuclear safety and environmental protection policies and provided assistance to the field in a manner that is conducive to meeting the HSS goals for integrating safety and security systems across DOE.

In the nuclear safety area, priority has been given to completing a backlog of nuclear safety issues related to DNFSB recommendations and internally identified DOE needs. Examples of recent major accomplishments include developing DOE directives that will help ensure the early consideration of safety in facility design; enhance safety during packaging of nuclear materials; and determine the appropriate level of safety and oversight for DOE facilities based on the potential hazards they pose to the public and workers. The office will issue a draft nuclear safety risk assessment policy for DOE-wide

review and is developing guidance to assist in policy implementation.

HS-20 also assists DOE elements in the effective implementation of nuclear safety requirements by participating in the review of site-specific safety analyses, operational readiness reviews, and independent project reviews that support critical decisions in the acquisition of DOE capital assets.

On the environmental and public protection side, HS-20 plays a leadership role in developing residual radioactivity limits for the control and release of property compliant with DOE requirements. HS-20 continues to maintain tools, such as models and computer codes for estimating doses and risks associated with release of property from DOE control. HS-20 works proactively to enhance DOE's implementation of environmental management systems

(EMS) across the complex and toward the realization of pollution prevention and environmental stewardship goals established by DOE directives and "greening the government" Executive Orders (EO), including the newly issued EO 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*. HS-20 has also led efforts to track and report on DOE's environmental performance and promote cost-effective, compliant practices at DOE sites. To this end, HS-20 has functioned as DOE's liaison with external environmental regulators, supporting initiatives, such as obtaining Environmental Protection Agency (EPA) approval of petitions that allow the cost-effective management of DOE wastes under Resource Conservation and Recovery Act requirements and developing guidance for conducting periodic confirmatory measurements of radiological emissions under EPA Clean Air Act requirements. ■

Office of Corporate Safety Analysis, HS-30

HS-30's analytical functions support HSS and DOE in fostering learning, continuous improvement, and responsible operations, providing not only trends and data, but also helping to focus Departmental leadership efforts. "Best in class" companies monitor progress, respond to problems, and create solutions, in part by analyzing past performance, developing indicators of potential future performance, and maintaining a staff of skilled analysts who can diagnose why things might go, or have gone, wrong.

HSS implements the "best in class" approach through HS-30. The office is responsible for managing reporting through the DOE reporting systems such as CAIRS, which deals with illness and injury; ORPS, which deals with accidents and near accidents; and REMS, which monitors radiation exposures. Beyond managing the reporting and analyzing the large influx of data, HS-30 is responsible for Federal Worker Health and Safety Programs; collects and disseminates corrective actions and lessons learned; aids the line in implementing safe

behaviors through its behavior-based safety initiatives; and, for serious events, ensures the conduct of Type A and B accident investigations.

HS-30 also implements the Corporate Safety Indicator initiative. This initiative evaluates and communicates the Department's "state of health," helps others put performance within the context of the DOE complex, and allows the Department to compare and benchmark itself against "best in class" industries. ■

Office of Enforcement, HS-40

HS-40 is responsible for investigating and initiating actions related to nuclear and worker safety violations of 10 CFR Parts 820, 830, 835 (nuclear safety), and 851 (the worker safety rule). To ensure a coordinated and consistent approach to enforcement, HS-40 also includes the security enforcement function and related civil penalties for security violations specified in 10 CFR 824.

Enforcement in the areas of worker health and safety and security are relatively new responsibilities for the

Department. These programs model, and will be consistent with, the general protocols in effect for the nuclear safety enforcement program. Based on lessons learned from the prototypes of three Part 851 enforcement actions and the recent completion of the first Part 824 enforcement investigation, some aspects of implementation will be unique for each of the three enforcement programs. To fully develop the two new programs, based on lessons learned and the relevant regulations, HSS has assigned Ms. Kathy McCarty to be the Acting Director for the Office of Worker

Safety and Health Enforcement (HS-41) and Mr. Steve Crowe to be Acting Director for the Office of Security Enforcement (HS-43). The Director, Office of Price-Anderson Enforcement (HS-42), is currently vacant. Mr. Arnold Guevara, Director, Office of Enforcement, and Ms. Martha Thompson, Acting Deputy Director, Office of Enforcement, intend to make site visits to discuss the enforcement program. For additional information about HS-40 and program implementation, visit the HSS web page at <http://www.hss.energy.gov/Enforce/>. ■

National Training Center, HS-50

HS-50 provides safety and security training for the Department through the National Training Center (NTC) to support the protection and safe operations of our national security resources. Founded in 1984 and formerly known as the Central Training Academy and then the Nonproliferation and National Security Institute, NTC has served as a DOE training facility since its inception.

Located in Albuquerque, New Mexico, on Kirtland Air Force Base, NTC was recognized by the Secretary of Energy as the first DOE Training Center of Excellence in 1997, and a Center of Excellence for Security and Safety Professional Development for the DOE in 2004. Today, NTC provides cost-effective safety and security training and related services throughout the Department for both Federal and contractor staff. These training programs and services primarily focus on nuclear safeguards and security, safety, infrastructure protection, and antiterrorism as it relates to DOE's mission.

On December 7, 2006, NTC Director Jeffrey Harrell welcomed visitors and dignitaries to the official opening of the Integrated Safety and Security Training and Evaluation Complex (ISSTEC). ISSTEC is designed to replicate a generic DOE operational facility and provides students with a hands-on, performance-based training experience in a simulated operational environment. In addition to enhancing its training facilities, the NTC recently made the transition to a new support contractor team composed of Echota Technologies, Inc., Battelle Memorial Institute, and New Mexico Institute of Mining and Technology. ■



Office of Independent Oversight, HS-60

To increase DOE's health, safety, and security posture, HSS has a rigorous performance-based independent oversight program in place that assesses safeguards and security, cyber security, emergency management, and environment, safety, and health programs across the Department. Independent Oversight inspections focus on many areas, including contractor self-assessments, DOE line management evaluations, and worker performance in order to continuously evaluate DOE's safety and security posture. HS-60 has a strong capability to identify weaknesses in safety and security programs and program implementation through such mechanisms as program reviews, limited-scope performance testing, and large-scale force-on-force exercises. The effectiveness and value of HS-60 assessments enable DOE sites to take timely corrective actions or, when necessary, immediate compensatory action to address identified weaknesses.

To date in fiscal year 2007, this continuous independent oversight program has provided an independent assessment of the following sites and programs:

- Safeguards and security programs at Los Alamos National Laboratory, the Strategic Petroleum Reserve, and the Hanford Site
- Cyber security programs at Los Alamos National Laboratory, the Strategic Petroleum Reserve, and the Hanford Site
- Emergency management programs at the Los Alamos National Laboratory, the Office of Secure Transportation, and Nevada Test Site
- Environment, safety, and health programs at Lawrence Livermore National Laboratory, the Stanford Linear Accelerator Center, and Nevada Test Site
- The personnel security program at the NNSA Service Center

- The classification and information control program at Oak Ridge Operations Office, Oak Ridge National Laboratory, and East Tennessee Technology Park
- Continuing unannounced cyber security penetration testing of selected DOE/NNSA sites
- Cyber security site assistance visits at the Environmental Management (EM) Cincinnati Business Center, the Office of River Protection, and Bonneville Power Administration
- Technical surveillance countermeasures (TSCM) special review.

Based on these assessments, HSS provides continuous input to the Deputy Secretary, Under Secretaries, and other senior managers, as well as Congressional staff, on numerous issues, ranging from the performance of specific sites and laboratories to the effectiveness of policy. ■

Office of Security Policy, HS-70

HS-70 is responsible for the maintenance of the core safeguards and security directives (program planning and management, personnel security, physical protection, protective force, information security, and nuclear material control and accountability). The office is also responsible for the policy governing unclassified foreign visits and assignments and for coordinating

the review of visit and assignment requests from individuals who are citizens of state sponsors of terrorism. Recently, HS-70 began a "zero-based" review of the safeguards and security directives for which it is directly responsible. This review will identify national directives, if any, associated with each requirement; determine whether the requirement is necessary and effective; and modify or delete those found to be unnecessary or

ineffective. This effort will result in both a reduction in the number of specific requirements and a more usable directives set. In addition, HS-70 is finalizing proposed "unsolicited changes" to the National Industrial Security Program Operating Manual (NISPOM). The NISPOM provides baseline standards for the protection of classified information released or disclosed to industry in connection with classified contracts under the

(Continued from Page 6)

National Industrial Security Program. A list of proposed changes involving requirements for the handling and protection of Restricted Data is being prepared to be delivered to the Under Secretary of Defense for Intelligence, who currently serves as the Executive Agent for the NISPOM.

HS-70 has also been active with the safety community on security-related issues. Recent successes have been recognized within the protective force policy team and health and safety counterparts, including: identifying potential impacts on field protective forces of 10 CFR 851, “Worker Safety and Health Program”; integrating protective force safety (in the area of firearms) into the rewrite of DOE Manual 470.4-3; and, in cooperation with HS-30, modifying the CAIRS database to allow greater granularity when reporting protective force

injuries. HS-70 is ensuring that health and safety is integrated into various security policies, as evidenced by the recent revision of DOE Order 470.4, *Safeguards and Security Program*, to include health and safety concerns from the DNFSB.

The status of current HS-70 policy initiatives is provided below:

- DOE Policy 226.1A, *DOE Oversight Policy*: Submitted for Deputy Secretary approval and implementation.
- DOE Order 470.4A, *Safeguards and Security Program*: Submitted for Deputy Secretary approval and implementation.
- DOE Manual 470.4-4, Change 1, *Information Security*: Submitted for Deputy Secretary approval and implementation.

- DOE Order 226.1A, *Implementation of DOE Oversight Policy*: Submitted for Deputy Secretary approval and implementation.
- DOE Notice 234.X, *Reporting of Radioactive Sealed Sources*: In the RevCom Process for review.
- DOE Guide, *Safeguards and Security Development for DOE Order 413.3A*, under development.
- DOE Guide, *Safeguards and Security Implementation for DOE Order 226.1A*, under development
- DOE Guide, *Material Control and Accountability for DOE Manual 470.4-6*, under development. ■

Office of Security Technology and Assistance, HS-80

In an effort to meet the growing demands of security operations at DOE/NNSA facilities faced with increasing threats and limited resources, HSS has undertaken an initiative to thoroughly reassess the approach to nuclear security. With the establishment of HSS, a major emphasis has been placed on getting advanced technologies out of development and into security operations at DOE/NNSA facilities. HS-80 is meeting this mandate through an aggressive technology deployment program that has established agreements with the NTC and 8 DOE/NNSA nuclear sites to deploy over 60 technologies. These technologies greatly enhance safety and security operational capabilities in the disciplines of early warning, assessment, command and control, protective force survivability, delay, and lethal response.

As demonstrated at the 2006 Idaho Technology Exposition, these technology deployments offer an opportunity to save millions of dollars and increase the effectiveness of security operations at our facilities. In addition, working with the full cooperation of the Idaho National Laboratory (INL), HS-80 conducted a “Super Site Assistance Visit” to examine security operations at INL. This “SAV” began with a “clean slate” and conducted a comprehensive analysis of the tactics, training, tools, and technology necessary for effective and efficient security at INL. This marks the first time that external elements, led by HSS, not only identified problems with security operations but also worked jointly with site personnel to produce solutions. The success of this process has paved the way for a reexamination of longstanding security policies and practices within the Department and will have lasting benefits.

In addition, HSS’s Performance Test Working Group, working with the support of the program offices, facilitated the development and implementation of significantly improved protocols and rules of engagement for the safe conduct of force-on-force performance tests. Using the adage of “train like you fight, and fight like you train,” the HSS Performance Test and Analysis Center revamped the decades-old methods and rules for force-on-force performance testing. The new protocols will provide a very realistic portrayal of current and emerging adversary tactics and weapons in addition to providing a means to thoroughly evaluate and modify protective force response tactics, equipment, and technology in order to sustain the elite forces protecting our national assets and materials. ■

Upcoming Activities

- DOE Standard 1189 Integration of Safety in the Design Process, entered into RevCom (HS-20)
- Educational Outreach on Pandemic Influenza (HS-10)
- Issue HSS Pollution Prevention (P2) Star Awards, recognizing exemplary pollution prevention projects and practices at DOE sites (HS-20)
- Hanford Safeguards and Security, and Cyber Security Inspection (HS-60)
- Idaho National Laboratory Emergency Management and Environment, Safety and Health Inspection (HS-60)
- Security Awareness Special Interest Group (SASIG) Workshop (HS-70)
- Sandia National Laboratories Safeguards and Security Inspection (HS-60)
- Annual Facility Representatives Workshop (HS-1.1)
- Security Protection Officer Training Competition (HS-50)
- Security Directors Meeting (HS-1)
- Annual Training Meeting for Nuclear Materials Management and Safeguards System (NMMSS) and Local Area Nuclear Material Accountability Software (LANMAS) Users (HS-1.2)
- Zero Baseline Review of Personnel Security, Information Security, and Physical Security Manuals (HS-70)



Office of Classification, HS-90

HS-90 has had a number of important accomplishments since the creation of HSS. In the policy area, HS-90 has completed the draft and placed into RevCom the Order and Manual for “Identifying Classified Information,” incorporating DOE implementation of amendments to Executive Order 12958 and updating the organizational responsibilities and structure of the overall DOE classification program. The Office of Classification completed a number of classification guides concerning subjects of national importance, such as

improvised nuclear devices, a new joint guide with the Department of Homeland Security for nuclear/radiological incident response, and an updated guide for US/UK use covering Agreement for Cooperation activities with the United Kingdom. Finally, HS-90 completed its multi-year effort to perform its page-by-page declassification review of over 12 million pages of DOE 25-year-old records of permanent historic value before the December 31, 2006, Executive Order 12958 deadline. ■

Looking to the Future

The management and staff of HSS are well aware of HSS’s vital role and significant responsibility to ensure that DOE’s health, safety, and security functions are strengthened. To meet this commitment, one of our major priorities following the creation of HSS has been to institutionalize our activities to ensure consistency and thoroughness in our processes. Additionally, over the coming year we plan to focus our priorities on:

- Improving the quality of safety and security policy and directives
- Enhancing worker health and safety and environmental protection
- Enhancing Federal expertise in line management oversight
- Improving data analysis
- Improving the Department’s interface with the DNFSB
- Improving the worker health, safety, and security interface
- Increasing the Department’s emphasis on security technology deployment
- Enhancing enforcement in the areas of Price-Anderson compliance, worker safety and health, and classified information security
- Enhancing independent oversight.

We invite you to learn more about our mission, functions, services, and products by visiting our web site at <http://www.hss.energy.gov>. ■

Solicitation of Comments, Questions, and Suggestions

HSS welcomes your thoughts about our newsletter. Please send or phone comments, questions, or suggestions to:

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