

## **SECURITY WORKING GROUP 2007 ANNUAL REPORT TO THE DIRECTORS**

### **Introduction**

The EFCOG Executive Directors approved the formation of the Security Working Group (SWG) in March 2005 to help fulfill the Critical Few objectives in the area of security.

The vision of the group is to promote excellence in security across the complex with the purpose of providing a strong focus for meeting the DOE security management challenges. The protection of special nuclear materials, classified matter, property, and cyber systems can be enhanced through the sharing of information and lessons learned, and by facilitating the application of information and techniques in an efficient and cost effective manner. The objectives of these actions are to ensure that the measured performance of the complex security will consistently and continuously improve.

The scope of the SWG includes both Safeguards and Security (S&S) and Cyber Security (CS).

### **Membership**

The SWG membership continues to grow with recruitment of new members consistent with the increase in the number and scope of tasks. As of February 2007 Jim Mulkey (Y-12) and Obie Amacker (PNNL) served as the Chair and co chair respectively. Joe Riddle (SRS) serves as the SWG Secretariat. Mike Bebon (BNL) serves as the EFCOG sponsoring Executive Director.

The SWG is composed of two Subgroups. The chair of the System of Laboratories Computing Coordinating Committee chairs the Cyber Security Subgroup, and Judith Johns (Y-12) chairs the Safeguards and Security Subgroup. In addition to the chair, vice-chair, and subgroup chairs, the charter calls for a steering committee. Due to prolonged inactivity and changes to the "at large representatives" without replacement, the steering committee has not been functional and will be reconstituted during the coming year. The charter-identified membership of the steering committee includes:

- SWG Chairperson
- SWG Vice-Chairperson
- Safeguard and Security Subgroup Chairperson
- Cyber Security Subgroup Chairperson
- Nuclear Security Information Exchange (NSIE) Representative
- Three (3) at large contractor Representatives
- One or more DOE sponsoring Executives
- EFCOG Sponsoring Director serves as an ex-officio member

DOE sponsors of the SWG include the following:

Glenn Podonsky	Chief Health, Safety, and Security Officer
Bill Desmond	NNSA, Associate Administrator for Defense Nuclear Security
Jim McConnell	NNSA Nuclear Safety
Chip Lagdon	DOE Nuclear Safety
Linda Wilbanks	NNSA CIO
Bob Walsh	Director of Security for Energy, Science and Environment

## **OBJECTIVES AND ACHIEVEMENTS**

The SWG through the Safeguards and Security Subgroup is primarily focused on the physical protection of DOE assets. The subgroup's focus and scope includes subject review and recommendation of effective implementation strategies in response to complex wide identified issues. Issues such as; the implementation of the Topical report on the Interface between Safety and Security, review of the DOE Guide for DOE Order 413.3 on the implementation of Security into project controls, review of pro-force injury rates, Security metrics, security culture, security peer reviews, implementation of 10CFR 824, security policy, materials, control and accountability; and other issues are of interest to the subgroup and the security community. All identified issues were considered for task work this year. However, the realization of the limited resources available, the focus was limited to three (3) specific areas. These three areas, the safety/security interface implementation, Pro-force injury rates and security metrics have been the main focus of this subgroup over the past year.

The Cyber Security Subgroup is focused on the growing threat to computer and information systems, and the need to track and demonstrate compliance with regulations. The cyber Security Subgroup has been inactive over the past year. It has demurred in large measure to other forums that bring CIO's and cyber security specialists together. These include, for example, the Systems of Laboratories Computing Coordinating Committee (SLCCC), which represents the 15 national laboratories. In addition, the split CIO functions between the DOE and NNSA have complicated cyber security policy and approach.

The Security working Group's interests intersect with a number of other EFCOG groups. For example, the topic report on the interface between security and safety strongly involves the Safety Analysis Working Group (SAWG). In addition, through cross memberships, the SWG maintains liaisons with the NSIE and the System of Laboratories Computing Coordinating Committee (SLCCC). Additionally, the SWG provides a liaison to the National Laboratories Improvement Council (NLIC) and the Nuclear Weapons Complex Integrating Committee. It is expected that the implementation of a task group focus on 10CFR 824, Procedural Rules for the Assessment of Civil Penalties for Classified information Security Violations, will require significant interaction with the PAAA Working Group and the newly formed Regulatory Compliance Working Group.

## **SAFEGUARD AND SECURITY SUBGROUP ACHIEVEMENTS:**

The Safeguards and Security Subgroup met three (3) times during the FY 07. The Safeguards and Security Subgroup task on the development and implementation of a protocol for the Topical Report on Safety and Security Integration continues to require significant interactions with the Safety Analysis Working Group. This is a new task just started in the last quarter of FY 07 and is still in the start up mode. The development and review of the DOE Guide for the Implementation of Security into Design for DOE Order 413 was completed during the third quarter of FY 07. Additionally two new task groups were formed during the third quarter to review and make recommendation on the 1. Increase injury rate associated with our protective forces and 2. The Security metrics which are being used across the DOE complex. The protective force injury rate task investigation is being lead by Dr. Larry Brede (Wackenhut) and the security metric task investigation is being lead by Dr. Rueben McGilverly (Pantex). Both activities will be completed during the calendar year 2008.

### **PLANNING FOR NEXT YEAR**

The Security Working Group called a meeting of the steering committee in the second (2) quarter of FY 07. However, the membership has shifted significantly over the past years and the meeting was poorly attended with only the chair, vice chair and the Safeguard and Security subgroup chair in attendance. The steering committee will be reconstituted during the FY 08. Other initiatives under consideration are:

- Continued interaction between the SWG, and the Safety Analysis Working Group NA 70 and HSS will be required to realize the benefits associated with the completion of the safety/security topical report. In particular, the central collection and dissemination of safety-related analysis of security systems is essential.
- Continue work to complete the review with recommendation of the Protective Force injury rate task.
- Continue work to complete the review with recommendations on the complex wide security metrics task.
- Initiate task group and work to develop a methodology for identification and characterization of the security culture for organizations individually or complex wide.
- Reconstitute the Cyber Security Subgroup
- Initiate a new Sub Group for Material, Control and Accounting sponsored within DOE and the NNSA.

### **LESSONS LEARNED**

The SWG competes with other security initiatives across the DOE and NNSA enterprise. A concerted effort is required to ensure that there is not a duplication of task and that the groups work together in a supportive fashion in lieu of a stovepipe contentious relationship.

### **EFFECTIVENESS EVALUATION**

The SWG has a significant role to play within the EFCOG community; however, to date the full benefits and contribution that could be made to improving the overall effectiveness and efficiency of the complex security has not been achieved.

### **RECOMMENDATIONS**

There are a number of challenges for this Working Group that should be considered by the EFCOG Board of Directors. These include:

- A new subgroup centered on the process control security should be stood up or included as a task within the cyber security working subgroup.
- The cyber security subgroup charter should be amended such that the chair is within the SWG and not the System of Laboratories Computing Coordinating Committee (SLCCC) and a working relationship established with the SLCCC and a more defined role within the CIO community developed. Serious consideration will be given to the decision to eliminate the subgroup should the working group fail to achieve these objectives.
- As the SWG is refocused the tendency to take on more responsibility than can be reasonably accomplished with the part time resource of the complex must be avoided.
- The EFCOG should provide sufficient guidance for EFCOG participants to support the voluntary efforts especially during times of continuing resolution. A statement of support from the DOE Secretarial level would help to leverage the full benefits of the EFCOG Community.