WS&H Subgroup

Mary Flora (C), Steve Harris (VC), Mark Brynildson (S)

• Charter published 2017
  • ‘...promote safe work practices,...by gathering, evaluating, developing and sharing performance measures, best management practices, and lessons learned consistent with ISMS principles and functions’

• Five (5) Standing Technical Task Groups:
  • Industrial Hygiene & Safety, Radiation Protection, Occupational Medicine, Electrical Safety, Laser Safety
  • Charters developed or updated in 2017
  • Dedicated and knowledgeable TG leadership focused on:
    • Delivering excellent functional performance to customers across the DOE Complex
    • Learning from each others’ best practices
    • Advancing technical expertise in their functional areas
  • Ambitious in establishing annual Work Plan (WP) objectives
  • Responsive to newly identified/timely issues or topics
WS&H Subgroup, cont’d
Mary Flora (C), Steve Harris (VC), Mark Brynildson (S)

• TG often working WP objectives and topics simultaneously
  • New topics require shifting of priorities
  • Temporary Task Teams created to address issues and upon completion, Task Team dissolves or tackles another topic

• Typically 2 face-to-face meetings per year (Forrestal & Field Office) with telecons in the interim

• Annual meeting with Safety Working Group’s DOE Sponsor & WS&H SG’s DOE POC
IH & Safety TG

John Hill (C), Jeff Hieb (VC), Maxwell Bertram (S)

• Standing TG focused on:
  • Answer questions and provide feedback to the DOE complex on regulatory and consensus standards such as 10 CFR 851, Occupational Safety and Health Administration (OSHA), American National Standards Institute (ANSI), and American Conference of Governmental Industrial Hygienists (ACGIH)
  • Through focused Task Teams, promote cooperation and interchange information, as appropriate, within EFCOG and with other entities that have similar interests (e.g., OSHA, American Industrial Hygiene Association (AIHA)), while minimizing duplication of efforts.
  • Evaluate and/or recommend continuous improvements to member companies and identify and assess impacts of new and emerging requirements from 10 CFR 851, OSHA, ISMS principles, and consensus standards.
  • Benchmarking across the complex on ideas to improve safety, chemical, and IH issues and concerns.
  • Develop Best Practices and white papers for the DOE complex.
IH & Safety TG
Robin Keeler, POC
John Hill (C), Jeff Hieb (VC), Maxwell Bertram (S)

• FY19 Tasks & Status
  • Completed
    • NEW: A Practical Guide For the Use Of Real Time Detection Systems For Worker Protection and Compliance with Occupational Exposure Limits (White Paper issued May 2019 and Presented to the 2019 AIHA Conference and Exposition)
    • 7.26 Update of DOE-HDBK-1139-3, Chemical Management (Volume 3 of 3), DOE Technical Standard
  • Underway
    • NEW: Review and Provide Comments to Update DOE-HDBK-1163-2003, Integration of Multiple Hazard Analysis Requirements and Activities (John Hill) – Requested by Steve Singal
    • NEW: Develop Best Practices for Improved IH/Occ Med Coordination (Dina Siegel)
    • 7.23 Best Practice for Complying with ACGIH Heat Stress Program (John Hill)
    • 7.25 Benchmark Chemical Storage and Chemical Storage Training Programs (Jeff Hieb)
    • NEW: Provide Guidance on Surface Chemical Contamination Levels (John Hill)
IH & Safety TG, cont’d
Robin Keeler, POC
John Hill (C), Jeff Hieb (VC), Maxwell Bertram (S)

• Other FY19 Accomplishments
  • NEW: Benchmark DOE Handbook 1100-2004, Chemical Process Hazards Analysis - Steve Singal request
  • NEW: Benchmark DOE Handbook 1101-2004, Process Safety Management for Highly Hazardous Chemicals - Steve Singal request
  • NEW: Benchmark OSHA Standards 29 CFR 1910 and 29 CFR 1200 (Hazard Communication)
  • Increased participation from other DOE Sites in IH&S TG activities to ensure more complete and collaborative efforts

• Recommended FY20 Tasks
  • Benchmark implementation of the new OSHA Silica Standards (cont’d from FY19, #7.24)
  • Issue White Paper/Position Paper to provide consistency and standards to determine how lead surface contamination criteria is used and applied; challenges associated its use; sampling and monitoring protocol and use of tiered levels (cont’d from FY19, #7.23)
  • Partner with Occupational Medicine TG to discuss Silica Standards follow-on activities
  • Provide input to DOE to update DOE-HDBK-1139, Chemical Management Volume 1
  • Benchmark IH&S considerations and practices for on-site gym facilities
Radiation Protection TG  John Blaikie, POC
Jerry Kurtz (C), Seth Kanter (VC), Diep McCormick (S)

• Standing TG focused on:
  • Gaining consistency in radiological operations between sites
  • Leveraging funds expended by individual sites to benefit all
  • Assisting regulators in policy making by providing recommendations

• FY19 Tasks & Status
  • Completed
    • 7.1.4: Develop webinar program for continuing education – Jerry Kurtz
    • 7.3.2: Post Health Physics Instrumentation Committee (HPIC) materials on EFCOG SharePoint site – Karen Barcal
  • Underway
    • 7.4.1: Best Practice development
    • 7.2.1: Continuing support to NTC for training development

• Other FY19 Accomplishments
  • NEW: Hard dollar savings of approximately $1M at INL by avoiding facility re-categorization
  • NEW: Direct access for ANL to experienced Plutonium facility decommissioning health physicists
Radiation Protection TG

John Blaikie, POC

Jerry Kurtz (C), Seth Kanter (VC), Diep McCormick (S)

• Other FY19 Accomplishments
  • Eleven benchmarking requests completed – consistency among sites
  • Completed two (2) webinars for RP personnel across DOE Complex:
    • July 2019: Lessons Learned from Wound Event at INL
    • August 2019: Rad Protection Challenges in Supporting AC-227 Research
  • Reconstituted HPIC and Air Monitoring Users Group (AMUG) meetings and interactions to share and leverage resources (~$10M per year)
  • Sharing training, lessons learned, best practices, etc., that DOE Sites are sponsoring & publishing to all RP TG members and participants to ensure consistent communications and awareness
Rad Protection TG, cont’d  
John Blaikie, POC  
Jerry Kurtz (C), Seth Kanter (VC), Diep McCormick (S)  

• **Recommended FY20 Tasks**  
  • Capture one lessons learned as best practice (Topic TBD at Fall Meeting)  
  • Carry forward working 10CFR835, Appendix D revision with DOE POC (7.5 in FY 19 Annual Work Plan on surface contamination values)  

• **Other**  
  • Sites working together as never before  
  • Realization that we have all the experts we could need within our own ranks and they are available  
  • Saving real money across the complex  
  • Complex moving forward on long standing issues
Occ Medicine TG  
Pat Worthington, POC  
Karen Phillips (C), Rick Sauerman (VC), Jamie Stalker (S)

• Standing TG focused on:
  • Role of the Occ Med physician in OSHA recordkeeping with candid discussion at meetings and development of formal Position Paper
  • Benchmarking clinical activities

• FY19 Tasks & Status
  • Completed
    • NEW: Position paper on “Value of Medical Professional Opinions on Work Relatedness for OSHA Illness & Injury Recordkeeping” – Watts
    • NEW: Position paper on “Evaluation of Medical Travel Variance Requests for Other Than Close Class Seating to Address National Nuclear Security Administration Guidance” – Nancy Richmond
  • Underway
    • 7.27 Benchmark heat stress evaluations and the recommended options for the approach to the determination of medical clearance – Rick Sauerman
    • 7.28 Develop Best Practice paper on physical therapy services (currently under final review prior to publishing) – Jamie Stalker
    • 7.29 Develop an approach to implementation of the new OSHA crystalline silica Standards and the new challenges in the Standards – Karen Phillips
• Other FY19 Accomplishments
  • *NEW*: Benchmarked multiple clinical topics including clinical services, Closed Points of Dispensing for mass medication distribution for public health emergencies, firefighter exams, AEDs, and others
  • Participation in NIOSH Seminars
  • Successful, well-attended biannual meetings with DOE in attendance
Recommended FY20 and beyond tasks
- Medical and recreational marijuana use guidelines
- Key medical self-assessments
- Develop process for Site-to-Site Peer Reviews
- Development of SOMD expert panel to assist with complex issues
- Partner with IH&S TG to discuss Silica Standards benchmarking and determine follow-on activities

Other Comments/Needs/Things to Share
- Asked to present information on current medical surveillance programs across the Complex at the American Occupational Health Conference, Washington, DC, May 2020 in conjunction with Dr. Stella Hinds, Former Worker Program – Karen Phillips & Sayre
Electrical Safety TG

Dave Mertz (C), Jennifer Martin (VC), Kiley Taylor (S)

• Standing TG focused on:
  • Assisting DOE sites in complying with 10 CFR 851 electrical safety requirements, including referenced third-party standards
  • Developing products (Best Practices and Position Papers) to improve electrical safety
  • Tracking electrical safety performance within DOE
  • Interfacing with external groups (NFPA, IEEE) whose standards affect electrical work at DOE facilities
  • Sharing of recent incidents and lessons learned
Electrical Safety TG  
Jeff Williams, POC  
Dave Mertz (C), Jennifer Martin (VC), Kiley Taylor (S)

• FY19 Tasks & Status
  • Completed
    • 7.8  DC Arc-flash calculation expansion for stored capacitive energy
    • 7.9  May 2019 Electrical Safety Month materials
    • 7.12  Electrical Safety Training Program Best Practice (#222)
    • 7.13  Safety Processes for Utility or Co-mingled Distribution Systems Crosswalk (NFPA 70E vs. 29 CFR 1910.269) Best Practice (#223)
    • 7.14  Capacitive Hazardous Energy Thresholds (incorporated into 2021 NFPA 70E submission)
    • 7.15  Position Paper addressing Use of Temporary Protective Grounds
    • 7.16  Assigning Contractor Electrical Authority Having Jurisdiction Responsibilities Best Practice (#221)
Electrical Safety TG

Jeff Williams, POC

Dave Mertz (C), Jennifer Martin (VC), Kiley Taylor (S)

• FY19 Tasks & Status
  • Underway
    • 7.11 DOE Electrical Safety Handbook (DOE-STD-1092) Revision (Moriah Ferullo)
    • 7.10 ESTG Electrical Safety Workshop (29 July to 2 August 2019)

• Other FY19 Accomplishments
  • Provide review of electrical content in latest revision to DOE-STD-1212, Explosives Safety (Thomas Garcia)
  • ESTG members submitted new sections to NFPA 70E, Standard for Electrical Safety in the Workplace, for Safe Work Practices for Capacitive Electrical Energy Hazards
Recommended FY20 Tasks (some may be multi-year)

- ESTG Electrical Safety Workshop 2020
- May 2020 Electrical Safety Month Materials
- Model Electrical Safety Training for Employees who are not Qualified Electrical Workers
- Best Practice for Commercial Electric Vehicle Charging Safety
- Best Practice for Lithium-Ion Battery Storage Systems Safety
- Best Practice for Capacitive System Grounding Sticks
- Expand Best Practice #211 for Multiwire Branch Circuit Safety to other types Shared Neutral Circuits
Laser Safety TG

Steve Singal, POC
Jamie King (C), Matthew Quinn (VC), Alex Lindquist (S)

• Standing TG focused on:
  • Promoting excellence in all aspects of laser safety through the collaborative sharing of policies, best practices, written procedures, tools, lessons learned, and hazard control technology
  • Establishing an effective network for laser safety experts from DOE facilities

• FY19 Tasks & Status
  • Completed
    • 7.17: Compile previous year’s Benchmarking Reports in a “DOE Laser Safety Best Practices” reference document. -- Mike Woods (SLAC)
    • 7.19: Benchmarking study to determine who is using the Laser Worker Training Web Course beyond the DOE complex into academia and other agencies. – Matt Quinn (Fermi Lab)
    • 7.20: Select host facility and technical planning committee for the 2020 DOE LSO Workshop. (POC) Jamie King-LLNL
Laser Safety TG

Jamie King (C), Matthew Quinn (VC), Alex Lindquist (S)

• FY19 Tasks & Status, continued
  • Underway
    • 7.18: Benchmark High-Power Laser Operations for the purpose of Risk Assessments (FMEA, LCA, Workers, Controls, etc.). --Tekla Staley (INL)
    • 7.21 (LSTG) Compile all DOE laser near miss and accidents into a database file. -- Joanna Casson (LANL)

• Other FY19 Accomplishments
  • Jamie King received the R. James Rockwell, Jr. Educational Achievement Award
  • LLNL received the Board of Laser Safety Illumination Award
  • Sandia received the Laser Institute Achievement in Laser Safety Education
  • Laser Alignment Practical Course, developed by LANL, now being implemented at LBNL, LLNL, and SLAC because of benchmarking
    • Sandia/CA using LLNL-developed course and training facility
Laser Safety TG, cont’d

Recommended FY20 Tasks

- Plan and hold DOE LSO Workshop
  - Present Benchmarking Report on High-Power Laser Operations for the purpose of Risk Assessments at LSO Workshop
  - Present DOE laser near miss and accidents database at LSO Workshop
- Develop Performance Metrics for LSTG and post to web page
- Benchmark additional control requirements from ANSI Z136.1-2014 and add them to “Guidance on Laser Safety Requirements” document
- Benchmark Class 1 laser enclosure requirements
Improvement Recommendations

• Regulatory Scheduled WS&H SG Leadership Discussions
  • Telecons to advance Annual Work Plan progress and identify issues and new scope
  • Deliberate discussions enable consistency and sharing of information; breaks down stovepiping

• Regular reporting and tracking process to SWG and DOE Sponsor and POCs
  • Formalize meeting minute distribution
  • Define Annual WP Objectives’ scope and schedule and report
  • Communicate emerging topics/activities and status

• Communicate WS&H SG accomplishments regularly
  • SWG and DOE Sponsor and POCs
  • DOE Site Leadership, Member Companies and EFCOG Leadership
Summary

• WS&H SG appreciates the opportunity to engage with DOE on policy and rulemaking, modifying Guide and Standards and including ISMS as a primary consideration in WS&H issues and topics

• Opportunities to improve exist

• Regular and substantive engagement with DOE POCs is key

• EFCOG website utility and updating; support from EFCOG staff is excellent

• Working better than ever before; participants appreciate value; expanding engagement to drive consistency

• Seeing positive results and making progress. Current TG leadership is knowledgeable, highly engaged and committed to EFCOG mission

• TG work scope evolves and changes to meet challenges as they arise

• New or updated regulations/requirements discussed to determine impacts and optimal approaches to address

• Gaining consistency in practices across the Complex; saving money through sharing of best practices; leveraging lessons learned

• Networking value is invaluable, but difficult to quantify

• Face-to-face meetings allow participants to focus on issues at hand with fewer distractions

• Appreciate opportunities to work with other WGs and SGs to encourage exchange of technical expertise