

**EFCOG Environmental Subgroup
Meeting Notes – Oak Ridge TN
October 18-20, 2011**

Attendees:

David Adler (DOE-ORO)	Jan Jackson (Y-12)
Cameron Anderson (PNNL)	Susi Jackson (LLNL)
Bruce Angle (INL)	Robert Johnson (Y-12)
James Bauman (Y-12)	Patricia Kuntz (SPR)
Kathy Carney (ORNL)	Roger Landon (WCH)
Eric Damberg (PNNL)	Catherine McKalip-Thompson (BNI)
Micki DeCamara (SLAC)	drafted volunteer note taker – thanks!
Sharon Dolan (NNSA)	Wayne McMahan (Y-12) our host
James Donnelly (Y-12)	(Thanks so much, Wayne!)
Jean Dunkirk (BNI)	Stacey McNamara (Y-12)
Gretchen Farnung (BMI)	Aprell Patterson (Y-12)
David Folse (SPR) outgoing chair	Jason Remien (BNL)
Orin Haworth (NTS)	David Skipper (ORNL)
C.C. Hill (Y-12)	Mike Stevenson (PNNL)
Dennis Hjeresen, (LANL) incoming chair	Steve Woodbury (DOE)

Very much missed: Bob Roulston (B&W Pantex)!

On the phone: John Irving (INL),

Cathy Alstatt, (EnergX)

Ernie Fossum, (INL)

Mike Moran, (PNNL)

1. Discussion on increasing participation in ENV subgroup
 - Our first customer is ourselves (the sites)– exchanging useful information, lessons learned, etc.
 - EFCOG as its own role and function – the field bringing a common view to headquarters is important, or we are “just another group”
 - Strong participation in new requirements process – recent experience worked fairly well
 - Make sure we are serving the interests of ourselves, and headquarters, if so, we are likely to increase participation.
2. Discussion of integration between Environmental Subgroup and the Energy and Infrastructure Subgroup- potential combination of some sort into a sustainability group? Held telephone conference call with Ernie Fossum and Mike Moran the Energy Group co-chairs. . Their concept is a higher level working group that is aligned with DOE SPO. Could we have a joint spring meeting? Decided on a December conf call to discuss options based on the discussion below.

Pros

- There is strength in numbers and the two groups have a potential 150+ membership
- Alignment to support the new DOE Order 436.1 and interest by the Sustainability Program Office (SPO) to sponsor an EFCOG Sustainability group

**EFCOG Environmental Subgroup
Meeting Notes – Oak Ridge TN
October 18-20, 2011**

- A synergy of interests between energy and environment (two primary groups engaged in the SSP)
- We could reach a broader audience with our products – facilitate communication
- There are some compliance overlaps between the worksopes

Cons

- The scopes of environmental issues goes far beyond the scope of DOE 436.1
- Need to avoid another “coordination group”
- Benefits from Env group with expertise and focus on details of regulations and the potential loss of that mutual help, optimization and interpretation and shared experience
- Logistics: we currently have no overlapping meeting venues
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- Combined energy, environmental, sustainability scope is huge

Questions

- Is there enough mission for the Environmental subgroup
- Where does sustainable procurement fit in this
- What would the scope of a new group be
- What are some specific tasks that the subgroup would undertake
- Is a working group between the two an alternative? Cross-representation on one another’s groups? More frequent joint meetings?

Benchmarking across projects regarding whether O 436.1 has been incorporated into contracts and how the SSP is set up, how sites are organized to deliver the SSP:

- BNL – Facilities & Operations has lead on SSP but Environment has many of the pieces – more work needed to unify.
- INL – EMS and Sustainability in Facilities/Site Services, reports through Operating Council.
- LANL – Environmental Management Senior Steering Committee reviews the EMS. SSP is managed by Utilities & Infrastructure and is a subgroup of Steering committee. Reports are done via EMS.
- LLNL – Ops & Business directorate owns the SSP but Env contributes to it. The Environmental Functional Area manages the EMS including ghg, energy, water, construction, etc. starting to better coordinate but report to senior management separately.
- NTS – Energy Council covers water, energy, LEED, EMS and Sustainability in Ops and Infrastructure. Local office not putting in 436 but are interested in the goals from SSP
- ORNL – similar set-up as above, have had a sustainability road map and structure to support that prior to EO 13514.
- PNNL – Facilities and Ops has lead on SSP, EMS core team has representation from all functions and the goals are set through that process
- Y-12 – Env Mgt plays coordinating role, have a grass-roots effort to develop a sustainability council to formalize and unit the various efforts across

**EFCOG Environmental Subgroup
Meeting Notes – Oak Ridge TN
October 18-20, 2011**

engineering, energy conservation/SSP, maintenance, pollution prevention, waste minimization, environmental compliance.

- SLAC – ES&H does the P2, Facilities/Ops/Infrastructure does the SSP. Some duplication of reporting it seems, business targets re EMS, SSP, PPTRS.
- SPR – Env has SSP and PPTRS, they are small but all separate departments reporting to separate groups. EMS is focus for information and reporting by contract.
- Hanford River Corridor is a clean-up/D&D contract, so are supposed to be out of business in a few years. But they feed data into the Hanford site-wide contractor.

Steve Woodbury remarked that there has been an evolution of thought from “we’ve got to comply with regulations” to “we have to have an EMS too?” to sustainability as a cross-cutting issue (like ISMS) and the next step is to use outreach, communication and planning to integrate sustainability while still getting the work done – cost effectively.

3. Learning Presentations

NRDA Process/Experience – Dave Adler, DOE Oak Ridge Office shared their experience in the partnership between DOI, DOE, TDEC and TRWA, and TVA – a MoA partnership that had the goal of quickly and inexpensively to settle. They engaged a Cambridge MA firm *Industrial Economics* to look at the potential benefits of prospective compensatory damages. Agreed upon methods for valuation in the economic analysis – had data on a range of things (fish contaminant bio burden, recreational fishing, etc.). The damages ended up being around \$7 M from a NRDA perspective, and so they set aside a 3000 acre Black Oak Ridge Preservation area for hikers, birders, mountain biking, etc. and will leave in place the Clinch and Tennessee River Cs, Hg and PCB riverbed contamination. It would be too damaging as well as far more expensive to clean them up when they are slowly being covered by new settlements and so well contained. They are now trying to leverage the relationships, structure and process to address the residual onsite contamination: soil contamination, groundwater plumes, etc. Valuation is currently ongoing.

Lessons learned: spend wisely on damage valuation estimates, recognize the benefit of how to agree, the power of screening and using bounded analyses (best case/worst case), and understand the role of DOI in providing expertise.

Y-12 Contractor Assurance System

All online – 27 functional areas with dozens of metrics in each.

Provide preliminary information on events (initial event info) simple and quick – same day gets pushed out to all who might need to know (ensures transmission of consistent information.)

Legacy risk evaluation: gathered the old timers to get what they knew out of their heads, and lore, and under review and into risk register.

With 55” of rain a year, water is their biggest issue, especially NPDES and sanitary sewer. EMS goals status, objectives, targets, etc. are all in the system.

It’s an Excelsis software package that is fed automatically versus multiple reports from multiple locations. It is not presently set up for sustainability but could be.

**EFCOG Environmental Subgroup
Meeting Notes – Oak Ridge TN
October 18-20, 2011**

Y-12 Environmental Scorecards – Y-12 has “environmental officers” matrixed to various departments that they’ve trained. Factors evaluated: NOV, releases, hazardous reviews, permit non-compliance, Env Officer participation. Ratings are: N/A, need improvement, meets expectations, exceeds expectations.

Positive results: clarification of roles and responsibilities, increased ownership of performance, feedback, competition. Some of the problems: confusion in the assessments, discontent with scoring.

Integrated Cloud Based Environmental Data Management System - LANL

Lots of data, handled and stored differently. Trying to consolidate and make the data more transparent. Now a single system with public interface – after validated, it is available to the public and they will see the planned sampling and data collected. Public will be able to see it with maps, browse, etc. (a hierarchy of permissions) but the intention is to build trust by increased transparency, and sharing the data is part of their RCRA permit and consent order. The NM Community Foundation is training people how to use and interpret the data system. Also integrating NMED oversight bureau into the system and tools but they will have a separate site and full control of their data, and planning to allow others to upload data also (Santa Fe) so much local environmental data will be available to public on the GIS-layered (topo and aerial) platform. Anticipate that this will also feed in to 50 year Stewardship Planning. Target to be up and running in the next few months.

Y-12 Sustainability and Stewardship Program

2.7 million aging s.f. – past useful life, 75% is over 30 years old. P2 program has matured beyond 3Rs. In FY10 they avoided generating 50 million kg of waste and \$6.14m of expenditure through recycling and reuse. FY11 goals: best in class P2 program, sustainable transformation (improve safety, security, environment), cost avoidance and sustainable acquisition. Y-12 recycle center a model facility, PRYDE rating system promotes good housekeeping using lean 7S principles, and generates environmental benefit recycle and reusing and properly disposing of the rest. Lots of recognition and encouragement. For sustainable acquisition, train those ordering items that they have to check Property or Product Exchange (online) for excess materials already onsite before purchase. User can get material for free, just pay to get it to their location from where it currently is.

ORNL Sustainable Campus Initiative

Goal is to achieve benchmark sustainability – in campus operations and RD&D. They have 10-year goals to 2018. They build on the base of ES&H, Operations, HR, and brought existing initiatives together to seek synergies. They have 2 sponsors – the Director of Facilities & Operations, and the AD for Energy & Environment.. They created 4 categories Foundational methods (basics), Known Technology, Leading Edge technology and Transformational Technology. They have a series of topic (28) roadmaps, with a responsible person/team for each across those categories. They have a variety of initiatives – much discussion around the solar PV powered electric vehicle charging stations!

**EFCOG Environmental Subgroup
Meeting Notes – Oak Ridge TN
October 18-20, 2011**

4. Dina Siegel presented on the work of the CSLM group. They are finalizing the Toxic Chemical Reduction Guide, an effort co-chaired with DOE's Jane Powers. The guide will cover acquisition processes, questions, strategies, issues, costs/benefits and lessons learned. They will have a draft ready for the spring ESH WG workshop and would like Env subgroups review and input.
5. Cathy Carney of ORNL gave a presentation and led a discussion of Environmental Liabilities. Reporting completed with FIMS, FIC, ESH&Q, Facility Ops and there is a lot of overlap. Footprint and contamination type in FIMS? The outstanding ESH liabilities represent costs to bring into compliance over time. Where does this fit in site financial liabilities due to all these different databases?
 - ACTION: Develop path forward with working group: Kathy Carney, Wayne McMahon, Mike Stevens, Bruce Angle and Jason Remien

6. DOE HQ Updates

Steve Woodbury reported that the DOE 2011-12 SSPP was due for release any time now. DOE has submitted analysis of climate change adaptation impacts and included a policy statement, as part of the interagency working group on cc adaptation. Some of the findings: many impacts are region-specific, if infrastructure change is needed should adjust now. A DOE planning group is starting work on that (hardening, design criteria, etc.)

John Ordaz gave an update from NNSA by phone. Discussed EMS integrating ISM system description – what should be the proper integrated management” and what is the umbrella? ISM? QA? Where sustainability and environment? Problem is too many documents and systems to manage, current directive system contains too many various types of documents, orders, guides, and beginning to overlap which creates confusion. Without new funds, we need to understand what the cost of implementing 436.1 is – what for each NNSA site? EFCOG will need to help determine what can be met with the resources we have. What level and how should sustainability best be addressed within EFCOG? (see above discussion notes)

Topics for Meeting with Don Cook

- Portfolio approach to implements SSPs across complex
- Seed money fund for energy and environmental infrastructure improvements
- Support for complex-wide pollution prevention