

Environmental Management Systems: Integration, Lessons Learned, and Best Practices June 20, 2008

Survey Questions	LANL	PNNL	HS / FH	WCH	WIPP	SPR	ICP	SNL	INL	Y-12	ORNL	Pantex	NTS	ETTP
A. Does your EMS conform to ISO 14001?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
B. Registered to ISO 14001?	Yes	Yes	No	No	No	Yes	Yes	No	Yes	No	Yes	No	No	No
If no, do you plan to register?	-	-	No	No	No	-	-	Yes	-	No	-	No	Yes	No
C. What approach are you using to evaluate your EMS to align with EO 13423?	Gap analysis	Gap analysis, Team	-	Gap analysis	Gap analysis	Gap analysis, Team	Team	Gap analysis, Team	Team	Team	Gap analysis, Team	Gap analysis, Audit	Gap analysis, Team	Gap analysis, Audit
D. Has or will your site incorporate requirements from EO 13423 into your site operating contract? Why or Why not?	No. EOs not included. Currently DOE O 450.1 is included	Yes	Doubtful given limited continuation of the PHMC.	Yes. To support DOE's implementation.	Yes. Incorporate requirements from applicable EOs.	Yes. PEMP requires plan and schedule.	Unknown. Once DOE O 450.1 and 430.2B are issued, contract will be negotiated.	Yes. Requirements incorporated thru DOE Orders that are contract requirements.	No. DOE O 450.1 has not become part of contract.	Yes. Management decision to have contract commitment prior to allocating resources.	Yes	Yes. Goals will be pursued in concert with new DOE Orders.	Yes	Not in contract now. Requirements will flow down after new orders issued.
E. Has or will your site request an exclusion/exemption from any EO 13423 requirement? If yes, please list the requirements.	No	No	Unknown	Yes. Will tailor requirements to closure contract.	Yes. Use of alternative fuels; sustainable practices for existing bldg inventory; water reduction goal.	Yes and No. On-site alternative fuel stations; on site power generation	Yes. Many, such as building energy metering (DOE O 430.2 B not part of contract)	No	No	No	No	No	No	No
F. Has your site reviewed / commented the draft DOE O 450.1A and DOE O 430.2B that flow-down requirements / goals?	Yes	Yes	Yes	DOE O 450.1A only	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	DOE O 450.1A only

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G. What is your primary funding mechanism for planning and implementation?	Direct; P2 and EMS funded thru generator set aside fund.	OH/CSS	Direct	OH/CSS	OH/CSS; Direct; USECs	Direct; will request addition to baseline	Major issue. New funding needed for new requirements	OH/CSS	OH/CSS	OH/CSS; ESPCs expected to be primary source of funding for energy / water projects.	OH/CSS; No additional OH will be provided for implementation	OH/CSS; ESPCs	OH/CSS; USECs	OH/CSS

DOE O 450.1A - *Environmental Protection Program*

DOE O 430.2B - *Departmental Energy, Utilities and Transportation Management*

EMS – Environmental Management System

EO 13423 – Executive Order 13423, *Strengthening Federal Environmental, Energy and Transportation Management*

ESPCs - Energy Savings Performance Contracts

OH/CSS – Site overhead / common site support

P2 – Pollution Prevention

USECs – Utility Energy Service Contracts

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1.	Environmental Policy	No changes	No changes	No changes	No changes	No changes	Revise existing when/if 2 EMSs are combined	No changes	Revise existing	No changes	Revise existing, reissued 1/29/08	No changes	No changes	No changes	Revise existing
2.	Site Environmental Aspects and Impacts List	No changes	Revise existing - Add fuel use & solid waste	-	Revise existing	Revise existing	Revise existing	No changes	Revise existing	No changes	Revise existing, consider results of energy survey	Revise existing, completed during annual review	No changes	Revise existing, probably score higher	No changes, unless 430.2B added to contract
3.	Environmental Aspect / Impact Identification Procedure	No changes	Revise existing - Add fuel use & solid waste	-	No changes	No changes	Revise existing	No changes	Develop new	No changes	No changes	No changes	No changes	No changes	No changes, unless 430.2B added to contract
4.	Site Environmental Objectives / Targets	Revise existing	Revise existing during next cycle	-	Revise existing	Revise existing	Revise existing	Revise existing, depending on added requirement to contract	Revise existing	Develop new, Revise existing	Revise existing, FY 2008 O/Ts aligned with expectation of DOE Orders	Develop new, identified on annual basis; new sustainability index as EMS O/T for FY 09	No changes	No changes	Revise existing, emphasis in 450.1 areas
5.	Environmental / Energy / Transportation Metrics	Develop new	No changes	-	Revise existing	No changes	Revise existing	No changes	Revise existing	Develop new, Revise existing	Revise existing, new baseline years	Revise existing, targets for energy have changed	No changes	Revise existing, only awareness articles in company publications	Develop new, if 430.2B added to contract
6.	EMS Awareness Training	Revise existing	No changes. Just updated	-	No changes	Revise existing	Revise existing	No changes	Revise existing	No changes	Revise existing, promote conservation, green procurement	No changes	No changes	Revise existing	Revise existing
7.	Other Environmental / Energy / Transportation Training	Not applicable	No changes	-	Not applicable	Revise existing	Revise existing	No changes	Revise existing	Revise existing	Develop new, target Projects and Engineering staff	Develop new	No changes	No changes	Develop new, if 430.2B added to contract

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8. Awards/Recognition Program	No changes	No changes	-	No changes	Develop new	Revise existing	No changes	Revise existing	No changes	No changes	No changes	No changes	No changes	Revise existing
9. Communication Processes and Strategies	No changes	Revise existing	-	No changes	No changes	Revise existing	No changes	No changes, procedure to document existing process	No changes	Revise existing, increase	No changes	No changes	Revise existing	Revise existing
10. Annual Site Environmental Report (ASER)	No changes	Not applicable	-	No changes	Revise existing	Revise existing	No changes	Revise existing	Not applicable	Revise existing, include progress on goals	Revise existing	No changes	Revise existing	No changes
11. Partnerships with Community / Other	Revise existing	No changes	-	No changes	No changes	Revise existing	No changes	No changes	No changes	No changes	No changes	No changes	Not applicable	Revise existing
12. Voluntary Environmental Partnership Programs (State or Federal)	Not applicable	No changes	-	No changes	No changes	Revise existing	No changes	Develop new, join Performance Track and Energy Star. Member Waste Wise	No changes	No changes, already Partner in State TP3 program	No changes, State TP3 and Performance Track	No changes	Develop new	Not applicable
13. Contract Performance Based Incentives	Revise existing	No changes	-	No changes	No changes	Revise existing	No changes	Not applicable	DOE may choose to do so	No changes in FY 08. Future TBD	No changes, already PBI for sustainability	No changes	No changes	Not applicable
14. Performance Evaluation and Management Plan / Award Fee	Revise existing	No changes	-	No changes	No changes	Revise existing	Not applicable	No changes	DOE may choose to do so	Revise existing, YSO revised 2008 PEP	No changes, already part of aware fee	No changes	No changes	Not applicable
15. Management / Employee Performance Plans	No changes	No changes	-	No changes	No changes	Revise existing	No changes	Not applicable	No changes	No changes	No changes	No changes	Revise existing, small number	Revise existing, EC staff
16. Define Roles, Responsibilities, and Authorities	No changes	No changes	-	No changes	Revise existing	Revise existing	No changes	Revise existing	No changes	No changes	No changes	No changes	No changes	No changes
17. FY 08 Funding Supplement (above FY 07 Baseline)	No changes	Revise existing, plan request	-	No changes	No changes	No changes	Not applicable	Not applicable, ISO register. & EO implementation funded FY 08	Revise existing	No changes, not available	No changes	No changes	No changes, unknown	Develop new, may be required

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18. New Funding / Work Scope for FY 08	No changes	Revise existing, plan request	-	No changes	No changes	No changes, requested not yet approved	Revise existing, depends on requirements added to contract	Not applicable	Revise existing	Revise existing, increased work scope but not funding	No changes	No changes	No changes, unknown	Develop new, depends of 450.1 and 430.2B
19. New Funding / Work Scope for FY 09 or Beyond	No changes	Revise existing, plan request	-	No changes	Develop new	Develop new	Revise existing, depends on requirements added to contract	Not applicable	Revise existing	Revise existing, necessary support services to ESPC	No changes, no new funds for implementation – funding for projects thru usual routes	Develop new, for O/Ts that are larger \$\$ items	No changes, unknown	Develop new, depends of 450.1 and 430.2B
20. Organization Changes	No changes	No changes	-	No changes	No changes	Develop new, requested 2 new FTEs	No changes	Not applicable	No changes	No changes	No changes	No changes	No changes	No changes
21. Subcontract Requirements / Specifications	Revise existing	No changes	-	No changes	Revise existing	Develop new	No changes	Revise existing	No changes	Revise existing	No changes	No changes	No changes, already in place	Revise existing, flow down green purchasing
22. Procurement / Acquisition Specifications	Develop new	No changes	-	No changes	Revise existing	Develop new	No changes	Revise existing	No changes	Revise existing	Revise existing, strengthen	Develop new Revise existing, has been the most difficult change	Revise existing, revise database to collect information	Revise existing, flow down green purchasing
23. Building Lease / Tenant Agreements	Revise existing	Revise, update as applicable	-	No changes	Revise existing	Revise existing	No changes	Develop new	No changes	No changes, 25 year lease in place	No changes	No changes	Not applicable	Not applicable
24. Engineering Specifications	Revise existing	Revise existing	-	No changes	Revise existing	Revise existing	Unknown	Revise existing	Revise existing	Revise existing	No changes, requirements for LEED exist	Revise existing	Revise existing, as funding allows	No changes, TBD
25. Site Level Procedures for Design	Revise existing	Revise existing	-	No changes	Revise existing	Revise existing	Unknown	Revise existing	Develop new and Revise existing	Revise existing	No changes	Revise existing	Revise existing, as funding allows	Not applicable to contract scope

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26. Site Level Procedures for Construction	Revise existing	Revise existing	-	No changes	Revise existing	Revise existing	Unknown	Revise existing	Revise existing	Revise existing	No changes	Revise existing	No changes, subcontract	Not applicable to contract scope
27. Site Level Procedures for Operations	Revise existing	Revise existing	-	No changes	Revise existing	Revise existing	Unknown	Revise existing	Revise existing	Revise existing	No changes	Revise existing	Revise existing	Revise existing
28. Contract with an Energy Service Contractor (ESCO)	Develop new	Develop new, currently contracted for energy options	-	Not applicable	No changes, contract with ESCO evaluated but will not be viable	Not applicable, ESCO identified no projects	No changes, contract for ESCO with DOE not contractor	No changes, continue to evaluate however proactive measures have been taken	Develop new	Develop new, contracted in 2008 & initial proposal in review	No changes	No changes, recently updated	Develop new, pursuing	Not applicable
29. Pollution Prevention Operational Assessments	No changes	No changes	-	No changes	Revise existing	Develop new	Unknown	No changes	No changes	No changes	No changes	No changes	No changes	No changes
30. Recycling Program	No changes	No changes	-	No changes	Revise existing	Revise existing	Unknown	Revise existing	No changes	No changes	No changes	No changes	No changes	Develop new & Revise existing
31. Prioritized Chemical Use Reductions	No changes	No changes	-	No changes	No changes	Revise existing	Unknown	No changes	Not applicable	No changes	No changes	No changes	No changes	No changes
32. Ozone depleting substances phase-out and Management Plan	No changes	No changes	-	No changes	Not applicable, no ODSs at WIPP	Not applicable	Unknown	Revise existing	No changes	No changes	No changes	No changes	No changes	No changes
33. Chemical Inventory Tracking System	No changes	No changes	-	No changes	Revise existing	Revise existing	No changes	No changes	No changes	No changes	No changes	No changes	No changes	No changes
34. Green Building Strategies	No changes	No changes, incorporating LEED into new buildings	-	Not applicable	No changes	Revise existing	No changes	Revise existing	Revise existing	No changes, incorporate into Site Ten-year Plan	No changes	Develop new	Revise existing, prioritized list exists	Not applicable to contract scope
35. Green Landscaping Strategies	No changes	No changes	-	Not applicable	No changes	Develop new	No changes	Revise existing	Revise existing	No applicable	No changes	No changes	No changes	Not applicable to contract scope

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36. Compliance Management Plan	Not applicable	No changes	-	No changes	Revise existing	Revise existing	No changes	Develop new	No changes	Not applicable	Revise existing, EMS Program Desc.	No changes	Revise existing	Not applicable
37. Energy Management Plan	Develop new	Revise existing	-	No changes	Revise existing	Revise existing	Unknown	Revise existing	Develop new and Revise existing	Revise existing, annual update	No changes	Revise existing, ongoing	No changes	Not applicable, 430.2 not in contract
38. Electronic Stewardship Plan	Develop new	No changes	-	Revise existing	Revise existing	Revise existing	Unknown	Revise existing	Revise existing	Develop new	No changes, done under Property Mgt.	No changes	No changes	No changes
39. Fleet Management Plan	Develop new	Revise existing	-	No changes	Revise existing	Revise existing	Not applicable	No changes	Revise existing	No changes	No changes	No changes	No changes	No changes, not in contract but evaluating
40. EMS Management Review Process	No changes	Revise existing	-	No changes	No changes	Revise existing	No changes	Develop new	No changes	No changes	No changes	No changes	No changes	No changes
41. Internal EMS Audit / Assessment Process / Procedure	No changes	No changes	-	No changes	Revise existing	Revise existing	No changes	Revise existing	No changes	No changes	No changes	No changes	No changes	No changes
42. Environmental Compliance Audit / Assessment Process / Procedure	No changes	No changes	-	No changes	Revise existing	Revise existing	No changes	Revise existing	No changes	Revise existing, to link with EMS	No changes	No changes	Revise existing	No changes

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I. Additional comments:

LANL	Most of this is already covered in our approach to EMS so changes will be minimal.
PNNL	Until the requirements are in the contract, any significant changes are difficult to make. Existing programs are strong and already undergoing continuous improvements. Planned improvements will be in line with EO requirements. An EMS Core Team is being established to get staff from key areas talking and working on cross-cutting issues such as the management review. Reductions in energy and water consumption are challenging considering improvements made already and no additional funding.
SPR	All of the above answers are based on DynMcDermott proposal of 6/1/08 and are dependent upon DOE approval. Most of revisions to existing procedures or programs are to expand the DynMcDermott (prime M&O contractor) processes to formally include DOE and other DOE subcontractors. This revision work is estimated at an additional 1.25 FTE for FY 09 only plus the 2 new requested permanent FTE's for future implementation.
ICP	Input to survey based on preliminary look at the DOE O 450.1 and 430.2B revisions. However, until such time as those orders are finalized and added to the ICP contract it will be impossible to determine final outcomes.
Y-12	Site is undergoing major transformation. Significant energy/water conservation projects have been proposed for ESPCs. However, funding and costs associated with on-site support services (security, RadCon, safety permits, etc.) to implement the projects via ESPCs are expected to be the limiting condition. Applicability of LEED Gold to Nuclear Facilities TBD.
ORNL	A Sustainability Team will be chartered. A sustainability index will be developed as a measure of progress in meeting sustainability goals.
NTS	A working group has been put together to perform a gap analysis and identify additional funding requirements. Not sure at this time (doubtful) that additional funding will be available. Implementation may have to come from the indirect funding source, while identifying what scheduled activities will have to be dropped to make funding available.
ETTP	We have just recently begun preparing a crosswalk of requirements contained in DOE Order 450.1A; therefore, information contained above is preliminary based on best judgement of required changes. This form will likely change after crosswalk is completed and impact analysis is finalized. Also, another major unknown at this time is whether DOE Order 430.2B will be incorporated into our contract. DOE Order 430.2A was not flowed down due to the nature of our contract (e.g., closure contract)

Results based on completed surveys submitted by:				
LANL	Los Alamos National Lab	Dennis L. Hjeresen	505-665-7751	dlh@lanl.gov
PNNL	Pacific Northwest National Lab	Kami Lowery	509-371-7858	kami.lowery@pnl.gov
HS / FH	Hanford Site / Fluor Hanford	Beth Bilson	509-373-3337	Helen_E_Bilson@rl.gov
WCH	Washington Closure Hanford	M. W. McCoy	509-372-9636	mwmccoy@wch-rcc.com
WIPP	Waste Isolation Pilot Plant	Kristine Nelson	575-234-8062	kristine.nelson@wipp.ws
SPR	DynMcDermottSPRMO	David Folse	540-734-4013	david.folse@spr.doe.gov
ICP	Idaho Cleanup Project	Steve Birrer	208-526-3427	steve.birrer@icp.doe.gov
SNL	Sandia National Lab	Jack Mizner	505-845-3576	jhmizne@sandia.gov
INL	Idaho National Lab	John S. Irving	208-526-8745	John.irving@inl.gov
Y-12	Y-12 National Security Complex	L. Wayne McMahon	865-574-1711	mcmahonlw@Y12.doe.gov
ORNL	Oak Ridge National Lab	Kathy Carney	865-241-8855	carneyka@ornl.gov
Pantex	Pantex	Boyd Deaver	806-477-6644	bdeaver@pantex.gov
NTS	Nevada Test Site	Orin Haworth	702-295-7374	hawortol@nv.doe.gov
ETTP	East Tennessee Technology Park	Rodney Kingra Glen Galen	865-241-2609 865-576-3968	kr3@bjcllc.org o7q@bjcllc.org