

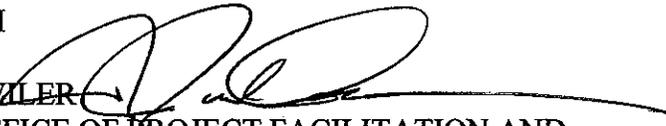
NATIONAL ENERGY TECHNOLOGY LABORATORY

Albany, OR • Morgantown, WV • Pittsburgh, PA



JAN 27 2010

MEMORANDUM FOR MARK J. MATARRESE
DIRECTOR, OFFICE OF ENVIRONMENT, SECURITY, SAFETY
AND HEALTH

FROM: R. PAUL DETWILER 
DIRECTOR, OFFICE OF PROJECT FACILITATION AND
COMPLIANCE

SUBJECT: Annual National Environmental Policy Act (NEPA) Planning Summary

The attached documents contain the Annual NEPA Planning Summary for the National Energy Technology Laboratory. The information is presented according to the guidance and formats provided by the DOE NEPA office.

As required by the Order 451.1B, the Annual NEPA Planning Summary will be made available to the public. When additional environmental assessments or environmental impact statements are determined to be necessary during this year, NETL will submit an addendum to the Annual Planning Summary. Please contact me for any additional information regarding NETL's NEPA plans.

Attachments

Distribution:
A. Cugini
R. Carabetta

Site-Wide NEPA Review
National Energy Technology Laboratory
January 2010

The National Energy Technology Laboratory (NETL) evaluated the need for and value of preparing a site-wide environmental impact statement or environmental assessment for its six sites: Morgantown, WV; Pittsburgh, PA; Albany, OR, Anchorage and Fairbanks, AK, and Sugar Land, TX. Based on this evaluation using the criteria identified below, NETL determined that site-wide NEPA analysis for these sites is not necessary and would not facilitate identification or consideration of potential environmental impacts regarding NETL's activities at these locations.

Background

NETL is the only DOE national lab dedicated to achieving the Nation's strategic goals regarding fossil energy research and development. The six sites are located in Morgantown, WV; Pittsburgh, PA; Albany, OR, Anchorage and Fairbanks, AK, and Sugar Land, TX. The Morgantown and Pittsburgh facilities are 65 miles apart and cover 136.9 acres and 61.4 acres, respectively. These two sites currently have a total of 80 permanent or temporary buildings and over 800,000 gross square feet of building area. The Albany site has 39 buildings (approximately 230,000 square feet of total space) on a 43-acre facility. The Anchorage, Fairbanks and Sugar Land facilities are involved primarily in technical program management functions and are housed in leased office space. In total, these sites have 119 government-owned buildings and trailers providing 1.05 million gross square feet of space. The average age of active NETL buildings is 41 years. The Replacement Plant Value (RPV) of the facilities is \$465 million.

NETL's activities at its sites include procurement, project management, analysis, and contract monitoring of off-site research and development (R&D) projects, and conducting R&D and supporting administrative functions at its sites. On-site research is conducted at NETL's Morgantown, Pittsburgh, and Albany sites. The intramural research at these three locations represents a small portion of the total DOE program implemented by NETL. NETL's Fairbanks site operates from University of Alaska offices and conducts no on-site research.

All projects – whether conducted by NETL or funded by the laboratory through various forms of financial assistance – are subject to NEPA review and evaluation prior to a decision on whether to undertake the project. With rare exceptions involving on-site construction activities, the projects conducted by NETL at its facilities typically qualify for categorical exclusion under DOE's NEPA regulations.

NETL's on-going operational research and maintenance activities at its sites consist of small projects that vary in type but generally not in size or scale. New projects implemented on an annual basis at NETL typically fall into categories of actions that the Department has determined are within classes that do not individually or cumulatively have a significant impact on the environment. For the foreseeable future, this situation is expected to continue.

As part of NETL's Environmental Management System (EMS), which is certified under ISO 14001:2004, research and maintenance activities at the Morgantown, Pittsburgh, and Albany sites are scored with respect to environmental aspects and potential impacts. These scores are used to set environmental performance objectives for the site, which are tracked through individual Environmental Action Plans. NETL's EMS is audited periodically to ensure on-going conformance with stated objectives and with the ISO standard.

In addition to internal and external audits conducted pursuant to ISO 14001, the totality of all research and maintenance activities at the Morgantown, Pittsburgh and Albany sites is periodically examined as part of planning and performance analysis processes. In these evaluations, the collective environmental consequences of activities at each site have been determined to be insignificant. Further, NETL does not maintain any permanent storage or disposal areas on these sites that could potentially become sources of significant impacts.

Efficiency

NETL's intramural research activities, as determined on an annual basis, are typically covered by categorical exclusions (CXs) listed in Appendices A and B of 10 CFR Part 1021 and can be efficiently evaluated individually and collectively without reliance on a site-wide review. Owing to their smaller scope and limited impacts, these on-site research activities are excluded from the more detailed reviews required under Appendices C and D of Part 1021.

Tiering

A site-wide NEPA document would not preclude the need for annual reviews of the scope and nature of individual research and other projects at NETL's sites. Due to the relatively small scale and variety of on-site activities, supplemental reviews of activities that typically qualify for categorical exclusion would not result in a less complex analysis.

Segmentation and Cumulative Effects

Research projects at NETL typically consist of distinct experimental activities of a nature determined by the Department to be categorically excluded from environmental assessment or environmental impact statement reviews. These activities are independently evaluated on an annual basis to ensure that they are stand-alone activities and not segments of larger activities that would trigger a more extensive level of review. In addition, no local off-site environmental stresses or developments of a significant nature result from NETL's on-site research activities. Thus, no conditions exist where cumulative environmental effects or impacts could become a concern.

The Albany site is currently investigating shallow groundwater contamination that resulted from an historic spill of trichloroethylene. This release was reported to the Oregon Department of Environmental Quality, and extensive sampling and characterization has been conducted to date and made available for public review. The situation is stable, and would not benefit from review under NEPA.

Land Use Planning

Activities at the Pittsburgh site occur at the 239-acre Bruceeton Research Center, a Federal research site located approximately 13 miles south of Pittsburgh. Of these 239 acres, NETL is landlord of 61.4 acres, of which approximately 40 acres are developed. Activities at the Morgantown site occur on approximately 35 developed acres situated on a 137-acre site of which DOE is the sole landlord. The Albany site consists of a small 42-acre campus. The activities conducted at Fairbanks occur on the campus of the University of Alaska. The activities NETL conducts in Anchorage and Sugar Land occur in leased office space.

NETL's sites at Morgantown, Pittsburgh, and Albany are bordered by developed residential areas. Research operations at all three sites are conducted in numerous buildings. Although these activities may change in scope on an annual basis, the scale of these activities is relatively constant. Thus, the available research facilities are such that NETL does not anticipate any reasonably foreseeable need for additional site development or alternative land use that could be facilitated by environmental planning through a site-wide NEPA review.

Public Participation

NETL maintains public contacts and regularly solicits input regarding on-site activities. Community interest groups and neighborhood association meetings are used to obtain information on community interests and concerns, and NETL uses this information to enhance communications for a broader understanding and greater acceptance of site activities.

Local media solicitations and announcements are used to obtain public input. In addition, NETL periodically supplements the on-going public interactions through open-house meetings where members of the public can observe NETL's operations first-hand and participate in discussions of NETL's activities.

Conclusion

Based on the above considerations, we have concluded that a site-wide NEPA review for the National Energy Technology Laboratory would not aid in streamlining the NEPA process, would not provide additional value to DOE decision-makers or the public, and would not reduce the time and cost of preparing other NEPA documents. Thus, NETL does not plan to conduct a site-wide NEPA review. This conclusion is bolstered by the large amount of NEPA work NETL has underway to support the objectives of the American Recovery and Reinvestment Act of 2009 – preparing a site-wide assessment for NETL would draw resources and attention away from this vital effort.

Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Assessments

National Energy Technology Laboratory

1/27/2010

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
Environmental Assessment for Saft America, Inc. Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Jacksonville, FL (DE/EA-1711D)	\$30,000	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 – Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1711
		Transmittal to State:	12/13/2009	
		EA Approval:	Mar-10	
		FONSI/NOI:	Apr-10	
Environmental Assessment for Exide Technologies Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Bristol, TN, and Columbus, GA	\$45,000	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 – Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA 1712D
		Transmittal to State:	12/18/2009	
		EA Approval:	Mar-10	
		FONSI/NOI:	Apr-10	
Environmental Assessment for Compact Power, Inc. Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Holland, MI (DOE/EA1709D)	\$45,000	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 – Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1709
		Transmittal to State:	1/8/2010	
		EA Approval:	Mar-10	
		FONSI/NOI:	Apr-10	
Environmental Assessment: DOE's Proposed Financial Assistance to EnerDel, Inc., for its Expansion of Battery Manufacturing Capabilities at Indianapolis, Noblesville, and Greenfield, Indiana (DOE/EA 1710D)	\$45,000	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 – Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1710
		Transmittal to State:	1/9/2010	
		EA Approval:	Mar-10	
		FONSI/NOI:	Apr-10	
Environmental Assessment for Dow Kokam MI, LLC Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Midland, Michigan (DOE/EA 1708D)	\$30,000	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 – Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1708
		Transmittal to State:	1/16/2010	
		EA Approval:	Mar-10	
		FONSI/NOI:	Apr-10	
Environmental Assessment for the Proposed Pope/Douglas Third Combustor Expansion Project, Alexandria, Minnesota	\$30,000	Determination Date:	8/12/2009	Congressionally Directed Project. DOE/EA-1699D
		Transmittal to State:	Jan-10	
		EA Approval:	Mar-10	
		FONSI/NOI:	Apr-10	

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Environmental Assessment for High Temperature Heat Treatment of Anode Material for Lithium Ion Batteries, Pyrotek, Inc. Sanborn, NY	\$27,448	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 - Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA 1720D
		Transmittal to State:	1/17/2010	
		EA Approval:	3/1/2010	
		FONSI/NOI:	4/1/2010	
Environmental Assessment for High Volume Manufacturing of LIPF6 – A Critical Lithium-ion Battery Material, Honeywell International, Inc. Metropolis,	\$40,774	Determination Date:	TBD	ARRA: DE-FOA-0000026 - Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA 1716
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Environmental Assessment for Celgard US Manufacturing Facilities Initiative for Lithium-ion Battery Separator, Celgard, LLC. Concord, NC	\$48,193	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 - Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1713
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Environmental Assessment for Expansion of Novelty Capacity for the Production Of Lithium Ion Electrolytes, Novolyte Technologies, Inc. Zachary, LA	\$28,984	Determination Date:	11/10/2009	ARRA: DE-FOA-0000026 - Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1719
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Environmental Assessment for Development and Demonstration of a Biomass Energy Center for Food Processing Applications	\$59,090	Determination Date:	3/20/2009	Non-ARRA: 08NT0004312 - Fuel/Feedstock Flexibility and Combine Heat and Power. DOE/EA 1658D
		Transmittal to State:	1/17/2009	
		EA Approval:	3/1/2010	
		FONSI/NOI:	4/1/2010	
Environmental Assessment for Toda America, Inc., Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Aiken, SC		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1714
		Transmittal to State:	12/18/2009	
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for Chemetall Foote Corp. Electric Drive Vehicle Battery and Component Manufacturing Initiative Application,		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1715
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for BASF Catalysts, LLC, Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Elyria, IL		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1717
		Transmittal to State:	12/27/2009	
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for EnerG2, Inc., Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Albany, OR		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1718
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for Johnson Controls, Inc., Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Holland, MI.		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1721
		Transmittal to State:	1/13/2009	
		EA Approval:		
		FONSI/NOI:		

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Environmental Assessment for TOXCO, Inc., Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Lancaster, OH		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1722
		Transmittal to State:	12/27/2009	
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for General Motors Corp., Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, White Marsh, MD.		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1723 - on Hold (Participant requested)
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for SBE, Inc., Electric Drive Vehicle Battery and Component Manufacturing Initiative Application, Barre, VT		Determination Date:	11/10/2009	ARRA: DE-FOA-0000026. Electric Drive Vehicle Battery and Component Manufacturing Initiative. DOE/EA-1725
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for East Barrow Methane Hydrate Project	\$77,475	Determination Date:	4/30/2009	FE-DOE/EA-1667 (On Hold and may be cancelled, per direction from the DOE/NETL Project Manager, requested)
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for Walakpa Methane Hydrate Test Well	\$43,929	Determination Date:	4/30/2009	FE-DOE/EA-1668 (Cancelled, per direction from the DOE/NETL Project Manager, requested)
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
Environmental Assessment for Integrated Energy System with Beneficial CO2Use at the Arizona Public Service Cholla Power Plant, Joseph	\$88,125	Determination Date:	4/6/2009	2009 American Recovery and Reinvestment Act for Innovative Concepts for CO2 Reuse
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Environmental Assessment: DOE's Proposed Financial Assistance to Pennsylvania for Frey Farm Landfill Wind Energy Project, Manor Township.		Determination Date:	12/15/2009	ARRA: DE-FOA-0000052: State Energy Program. PA market title PEDAs Sustainable Business Development DOE/EA-1737
		Transmittal to State:	12/15/2009	
		EA Approval:		
		FONSI/NOI:	2/10/2010	
Environmental Assessment for West Tennessee Solar Farm Project	Applicant preparing	Determination Date:	10/2/2009	ARRA: DE-FOA-0000052: State Energy Program. TN market title Volunterr State Solar Initiative DOE/EA-1737
		Transmittal to State:	10/13/2009	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
		Determination Date:		
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
		Determination Date:		
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		
		Determination Date:		
		Transmittal to State:		
		EA Approval:		
		FONSI/NOI:		

1/27/2010

Annual NEPA Planning Summary Environmental Assessments Expected to be Prepared in the Next 12 Months

National Energy Technology Laboratory

1/27/2010

*Title, Location	Estimated Cost	Estimated Schedule (*NEPA Milestones)		Description
SMART GRID, Multiple locations; 8 EAs anticipated	\$25-40,000 Ea	Determination Date:	TBD	ARRA - DE-FOA-0000036 (Areas of Interest 1 & 2)
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Combined Heat and Power: 5-6 EAs anticipated; various locations	\$25-40,000 Ea	Determination Date:	TBD	ARRA - DE-FOA-0000016 - Combined Heat and Power Systems Technology Development and Demonstration (Areas of Interest 1 & 3)
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Carbon Capture and Sequestration (CCS) from Industrial Sources and Innovative Concepts for Beneficial CO2 Use, Multiple locations; 0-4 EAs anticipated		Determination Date:	TBD	ARRA - DE FOA-0000015 - ICCS Areas of Interest 1 & 2 - 23 Phase I projects have been awarded (CXs); DOE will select 8-14 of these projects for Phase II. Number of Eas for this program will depend on the number and type of projects selected for Phase II.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Clean Coal Power Initiative Round 3, Multiple locations; 0-2 EAs		Determination Date:	TBD	ARRA - DE-PS26-08NT43181 - Cannot determine at this time whether 2 of these projects will require EAs or EISs
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
Research Projects for NETL's Office and Research and Development, Multiple locations; 0-5 EAs		Determination Date:	TBD	Not ARRA; in a typical year, a few of NETL's in-house research and development projects require preparation of an EA.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI/NOI:	TBD	
		Determination Date:		
		Transmittal to State:		
		EA Approval:		
		FONSI:		
		Determination Date:		
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1/27/2010

Annual NEPA Planning Summary Environmental Impact Statements Expected to be Prepared in the Next 24 Months

National Energy Technology Laboratory

1/27/2010

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)	Description
CCPI Round 3, Various Locations Within the United States. 1 EIS underway; 2-4 additional EISs anticipated		Determination Date:TBD	ARRA - DE-PS26-08NT43181 - At present, it is unclear whether two of the selected projects will require EAs or EISs.
		NOI: TBD	
		Scoping: TBD	
		Draft: TBD	
		Hearings: TBD	
		Final: TBD	
		ROD: TBD	
Carbon Capture and Sequestration (CCS) from Industrial Sources and Innovative Concepts for Beneficial CO2 Use, Multiple locations; 6-11 EISs anticipated		Determination Date:TBD	ARRA - DE FOA-0000015 - ICCS Areas of Interest 1 & 2 - 23 Phase I projects have been awarded (CXs); DOE will select 8-14 of these projects for Phase II. Number of EISs for this program will depend on the number and type of projects selected for Phase 2.
		NOI: TBD	
		Scoping: TBD	
		Draft: TBD	
		Hearings:	
		Final: TBD	
		ROD: TBD	
		Determination Date:	
		NOI:	
		Scoping:	
		Draft	
		Hearings	
		Final	
		ROD	
		Determination Date:	
		NOI:	
		Scoping:	
		Draft	
		Hearings	
		Final	
		ROD	
		Supplement Analysis:	
		Determination Date:	
		Approval:	
		Supplement Analysis:	
		Determination Date:	
		Approval:	
	Total Estimated Cost		
	\$0.00		

*Please include projected NEPA milestones, if planned

Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements

National Energy Technology Laboratory
1/27/2010

*Title, Location	Estimated Cost	Estimated Schedule		Description
Mesaba Energy Project; Itasca County, MN Contractor: Potomac-Hudson Engineering.	\$1,180,000	Determination Date:	6/6/2005	EIS-0382
		NOI:	10/5/2005	
		Scoping:	10/25/2005	
		Draft	11/8/2007	
		Hearings	11/28/2007	
		Final	11/1/2009	
		ROD	TBD	
HEI/HECA, CCP Round 3A		Determination Date:	8/6/2009	Linked with California licensing process. Has been delayed by a jurisdictional dispute between two state agencies
		NOI:	2/2010 (est)	
		Scoping:		
		Draft		
		Hearings		
		Final		
		ROD		
FutureGen Project; TDB; Contractor: Potomac-Hudson Engineering	5,412,328.00	Determination Date:	2/15/2006	EIS-0394
		NOI:	7/28/2006	
		Scoping:	8/31/2006	
		Draft	6/1/2007	
		Hearings	6/28/2007	
		Final	11/16/2007	
		ROD	7/20/2009	
Gilberton Coal to Clean Fuels and Power Project; Gilberton, PA; Contractor: Oak Ridge National Laboratory	\$1,100,000	Determination Date:	3/5/2003	EIS-0357. Record of Decision still pending.
		NOI:	4/10/2003	
		Scoping:	5/5/2003	
		Draft	12/9/2005	
		Hearings	1/10/2006	
		Final	10/23/2007	
		ROD	TBD	
Kemper County IGCC Project; Kemper County, MS; Contractor:Environmental Consulting and Technology		Determination Date:	6/20/2008	EIS-0409. Costs covered under third-party contract
		NOI:	9/22/2008	
		Scoping:	10/14/2008	
		Draft	5/22/2009	
		Hearings	12/1/2009	
		Final	2/2010 (est)	
		ROD	3/2010 (est)	
		Supplement Analysis:		
		Determination Date:		
		Approval:		
		Supplement Analysis:		
		Determination Date:		
		Approval:		
	Total Estimated Cost			
	\$6,512,328.00			
**Evaluation of Site Wide EIS:				

*Please include projected NEPA milestones, if planned