Department of Energy
Office of Science
Washington, DC 20585

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MEMORANDUM FOR JOHN S. SHAW
ASSISTANT SECRETARY
FOR ENVIRONMENT, SAFETY AND HEALTH

FROM: MILTON D. JOHNSON
CHIEF OPERATING OFFICER MDJ

SUBJECT: Office of Science Annual NEPA Planning Summary for 2005

The Department of Energy (DOE) Order 451.1B requires each Secretarial Officer and Head of Field Organizations to submit to your office by January 31 an Annual National Environmental Policy Act (NEPA) Planning Summary. This memorandum constitutes the Office of Science submittal for 2005.

NEPA Documentation. My NEPA Compliance Officer (NCO) has coordinated the contents of this submittal with the Office of Science (SC) Program Offices, the SC Site Offices at the National Laboratories, and the NCOs at the SC Integrated Service Center (ISC) at Chicago and Oak Ridge. We have agreed that this Summary will provide the consolidated reporting for the SC Headquarters (HQ), Site Offices and the ISC for operations under the new OneSC organization for 2005. The ISC at Chicago also will report to the Office of Environment, Safety and Health (EH) on NEPA documentation it will assist other programs with.

The Office of Science anticipates preparing several Environmental Assessments (EA) during the next 12 months. At present, SC does not anticipate the preparation of any Environmental Impact Statements during the next 24 months. The EAs are summarized on the attached forms and consist of the following:

- SC Argonne Site Office
  - *Environmental Assessment for the Construction and Operation of a Regional Biocontainment Laboratory (RBL) at Argonne National Laboratory*, prepared jointly by the SC Argonne Site Office and the National Institutes of Health (NIH), with NIH as the lead agency; NIH proposes to partially fund construction of the RBL on the campus of SC's Argonne National Laboratory; the RBL would be constructed, owned, and operated by the University of Chicago on land leased to the University from the Department of Energy (DOE) and would be distinct from the University's operation of Argonne under contract to DOE;
  - *Environmental Assessment for the Decontamination and Decommissioning of the Zero Power Reactor Project in Building 315 at Argonne National Laboratory*, funded by the Office of Environmental Management (EM) and prepared by the SC Argonne Site Office;

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- SC Berkeley Site Office
  - *Environmental Assessment for the Decontamination and Decommissioning of the Bevatron at Lawrence Berkeley National Laboratory*, prepared by the SC Berkeley Site Office.
- SC Brookhaven Site Office
  - *Environmental Assessment for Construction and Operation of the National Synchrotron Light Source (NSLS) II Project at Brookhaven National Laboratory*, prepared by the SC Brookhaven Site Office;
- SC Jefferson Site Office
  - *Environmental Assessment for the 12 GeV Upgrade Project at the Continuous Electron Beam Accelerator Facility and Improvements to the Free Electron Laser at Thomas Jefferson National Accelerator Facility*, prepared by the SC Jefferson Site Office with assistance from the SC ISC at Chicago;
- SC Pacific Northwest Site Office
  - *Environmental Assessment for the Proposed Pacific Northwest National Laboratory Office of Science Replacement Facilities*, prepared by the SC Pacific Northwest Site Office;
- SC Integrated Service Center at Chicago
  - *Environmental Assessment for the Iowa Environmental Education Project*, prepared by the SC ISC at Chicago;
  - *Environmental Assessment for the Decontamination and Decommissioning of the Bates Accelerator at Massachusetts Institute of Technology*, prepared by the SC ISC at Chicago;

The Office of Science also will participate in the NEPA and environmental review processes being led by other DOE Program Offices that may support or have a bearing on some aspects of SC's research programs. They are the following:

- *Environmental Impact Statement for the Disposal of Greater-Than-Class-C Low-Level Radioactive Waste;* Office of Environmental Management is the DOE lead.
- *Strategic Environmental Review Plan and Process* for identifying environmental factors and NEPA trigger points to be considered during planning and implementation of the Hydrogen Program; Office of Fossil Energy is the DOE lead.

Status of Ongoing NEPA Compliance Activities. On June 1, 2004, I issued SC guidance and instructions to the OneSC complex regarding ***Clarification of Responsibilities for Implementing NEPA by OneSC***. My NEPA Compliance Officer forwarded copies of this guidance to EH. This guidance explained that within the OneSC organization, the SC Site Offices have line management responsibility and are Heads of Field Organizations (HFO), as per DOE Order 451.1B, for the purposes of

implementing the procedural provisions of NEPA for SC's Federal actions under their purview at the National Laboratories. Similarly, the SC ISC at Chicago and Oak Ridge are the HFOs for SC's Federal actions under their purview, which includes the administration of SC grants and contracts for research activities. SC HQ will have the responsibility to implement NEPA's procedural provisions for matters under SC HQ purview and for policy and directions to the OneSC complex.

The guidance also reiterated that DOE Order 451.1B requires that HFOs are to appoint and maintain a NEPA Compliance Officer and to ensure that the proper NEPA quality assurance plans are prepared for their organizations. I encouraged the SC Site Office Managers to appoint NCOs as their staffing permits. I anticipate that most of the SC Site Offices will do so, while a few of the smaller SC Site Offices will rely upon the SC ISC at Chicago and Oak Ridge for this function, even though the signatory and decision-making function will reside with the Site Office Managers. SC will inform EH once this functional organization in the field is complete, which I anticipate will be during early 2005.

The SC HQ NCO coordinates the NEPA compliance program for SC's HQ Program Offices. The NCO also assists the SC Site Offices and the ISC that administer SC-sponsored research at the National Laboratories. This program and its initiatives are contained in the SC-80 portion of the Office of Science website, located at the address below. This web site currently is being revised and updated.

http://www.sc.doe.gov/sc-80/sc-83/nepacomp.shtml

The SC NCO is assisting the SC Site Offices in the planning and the implementation of their line NEPA function under OneSC. SC anticipates sponsoring a NEPA workshop for its HQ Program Offices, Site Offices, and the SC Integrated Support Center during 2005. The SC NCO will continue to host and coordinate regular monthly NEPA conference calls among the Site Offices and the ISC.

If there are questions on this NEPA Planning Summary, please direct them to Clarence Hickey, the Office of Science NEPA Compliance Officer, at (301) 903-2314 or Clarence.Hickey@science.doe.gov.

Attachment

cc w/attachment
R. Purucker, Manager, Ames Site Office
C. Zook, Acting Manager, Argonne Site Office
J. Krupa, Acting Manager, Berkeley Site Office
M. Holland, Manager, Brookhaven Site Office
J. Livengood, Acting Manager, Fermi Site Office
J. Turi, Manager, Thomas Jefferson Site Office

G. Malosh, Manager, Oak Ridge Site Office
P. Kruger, Manager, Pacific Northwest Site Office
J. Faul, Manager, Princeton Site Office
R. Wunderlich, Acting Manager, Stanford Site Office
M. Gunn, Manager, ISC at Chicago
G. Boyd, Manager, ISC at Oak Ridge

Annual NEPA Planning Summary Environmental Assessments
Expected to be Prepared in the Next 12 Months
DOE Office of Science - 2005

Title and Location	Estimated Cost	Estimated Schedule		Description
Environmental Assessment for the Construction and Operation of a Regional Biocontainment Laboratory (RBL) at Argonne National Laboratory. DOE/EA-1489.	TBD	Determination Date:	Jan. 2004	The EA will be prepared jointly by the SC Argonne Site Office and the National Institutes of Health, with NIH as the lead agency. NIH would partially fund construction of the RBL on the campus of SC's ANL. The RBL would be constructed, owned and operated by the Univ. of Chicago on land leased to the Univ. from DOE, and would be distinct from the Univ.'s operation of ANL, for the purpose of conducting infectious disease research at the biosafety level 3.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Environmental Assessment for the D&D of the Zero Power Reactor Project in Building 315 at Argonne National Laboratory.	$37,000	Determination Date:	10/8/2004	The EA will be funded by the DOE Office of Environmental Management and prepared by the SC Argonne Site Office. The project would provide for Decontamination and Decommissioning of the shutdown facility.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Environmental Assessment for the D&D of the Bevatron at Lawrence Berkeley National Laboratory.	TBD	Determination Date:	TBD	The EA will analyze the potential environmental impacts of the decontamination and decommissioning of the Bevatron.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:		
Environmental Assessment for Construction and Operation of the National Synchrotron Light Source II at Brookhaven National Laboratory.	$81,000	Determination Date:	3/31/2005	Construct and operate NSLS-II, a new state-of-the-art medium energy (3 GeV) storage ring designed to deliver world leading brightness and flux. The facility would be able to produce x-rays up to 10,000 times brighter than those produced at the NSLS today.
		Transmittal to State:	3/31/2005	
		EA Approval:	12/31/2006	
		FONSI:	12/31/2006	
Environmental Assessment for the Proposed 12 GeV Upgrade Project at CEBAF and the FEL at Thomas Jefferson National Accelerator Facility, Newport News, VA.	$150,000	Determination Date:	TBD March 2005	The EA will cover proposed increase in the operating limits of the Continuous Electron Beam Accelerator (CEBAF) up to 12-16 GeV and increase in operating limits of the Free Electron Laser to 190 KW light power and a new Experimental Hall for the higher energy and other buildings associated with the increase in operating limits.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Environmental Assessment for the Proposed Pacific Northwest National Laboratory Office of Science Replacement Facilities.	$100,000	Determination Date:	TBD	The proposed action would replace necessary capabilities to continue programs that are being displaced by the need to vacate and clean up EM Hanford Site legacy facilities.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Environmental Asessment for the shutdown, initial deactivation and D&D of the Bates Linear Accelerator Center at MIT.	$50,000	Determination Date:	Sep. 2005	In FY05, the Blast Program Program will be terminated and the use of the Bates site as a user facility for Nuclear Physics will be re-examined for potential future use or D&D. The EA will examine the potential associated environmental impacts.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Environmental Assessment for the Proposed Iowa Environmental Education Project (IEEP), Coralville, Iowa.	$80,000	Determination Date:	6/13/2004	This is a Congressionally initiated project. The IEEP is seeking to create a world-class education environment with this project, which would include a living laboratory in the form of a microscale rainforest ecosystem.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	May 2005	