



Department of Energy

Fermi Site Office
Post Office Box 2000
Batavia, Illinois 60510

JAN 14 2011

Scott Blake Harris, General Counsel
GC-1 FORS

SUBJECT: FERMI SITE OFFICE (FSO) 2011 ANNUAL NATIONAL ENVIRONMENTAL
POLICY ACT (NEPA) PLANNING SUMMARY

The Department of Energy (DOE) Order 451.1B, Change 2, requires Secretarial Officers and Heads of Field Organizations to submit a NEPA Annual Planning Summary to the Office of General Counsel. Per your December 8, 2010 memorandum and guidance provided by the Office of NEPA Policy and Compliance (GC-54), our Annual NEPA Planning Summary is enclosed. We have identified one on-going environmental assessment (EA). No environmental impact statements (EISs) are on-going and two new EAs and one EIS are expected to be prepared beginning in the next 12 to 24 months.

If you have any questions or need additional information, please contact me at (630) 840-3281 or have a member of your staff, contact Rick Hersemann at (630) 840-4122 or Peter Siebach, CH, at (630) 252-2007.

A handwritten signature in black ink, appearing to read "M J Weis".

Michael J. Weis
Site Manager

Enclosure:
As Stated

cc: G. Malosh, SC-3, FORS, w/encl.
S. Goel, SC-31.1, GTN, w/encl.
C. Borgstrom, GC-54, FORS, w/encl.
L. Jessee, GC-54, FORS, w/encl.

Annual NEPA Planning Summary

Environmental Assessments Ongoing or Expected to be Prepared in the Next 12 Months

Office of Science -- Fermi Site Office

31-Jan-11

Title, Location, Document Number	Estimated Cost	Estimated Schedule (NEPA Milestones)		Description
Environmental Assessment for the Long Baseline Neutrino Experiment, Fermi National Accelerator Laboratory, Batavia, IL (DOE/EA-1799)	\$200,000	EA Determination Date:	6/21/2010	The LBNE would use the existing Main Injector Accelerator at Fermilab to produce a pure beam of muon neutrinos. The neutrinos would be examined at a "near detector" proposed to be constructed at Fermilab, and at a "far detector." The overall intent is to advance our understanding of the physical universe. As neutrinos travel through the earth, they "oscillate." In other words, the relative proportions of the three types of neutrinos (electron, muon, and tau) changes. Through use of neutrino detectors, scientists will obtain the most precise measurements of the mixing angles, look for charge parity (CP)-violating effects and compare them to CP violation observed in quarks and antiquarks.
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Muon-to-Electron Conversion Experiment (Mu2e), Fermi National Accelerator Laboratory, Batavia, IL	\$75,000	EA Determination Date:	3Q11	The muon-to-electron conversion experiment (Mu2e) is designed to search for the coherent, neutrino-less conversion of a muon to an electron, in the Coulomb field of a nucleus. The Mu2e experiment would utilize an intense muon beam produced by the accelerator complex at the Fermi National Accelerator Laboratory. Construction would start around 2013. See http://mu2e.fnal.gov/ .
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
Project X, Fermi National Accelerator Laboratory, Batavia, IL	\$75,000	EA Determination Date:	4Q11	Project X is a high-power facility that will support world-leading programs in long-baseline neutrino physics and the physics of rare processes. It would be unique among accelerator facilities worldwide in its flexibility to support multiple physics programs at the intensity frontier. Project X would be based on a 3 GeV continuous-wave superconducting H-linac accelerator. Further acceleration to 8 GeV, injected into Fermilab's existing Recycler/Main Injector complex, would support long-baseline neutrino experiments. Project X would provide 2 MW of total beam power to the 3 GeV program, simultaneously with 2 MW to a neutrino production target at 60-120 GeV. Construction would start around 2015. See http://projectx.fnal.gov/
		Transmittal to State:	TBD	
		EA Approval:	TBD	
		FONSI:	TBD	
	Total Estimated Cost			
	\$350,000			

1/12/2011

Annual NEPA Planning Summary

Environmental Impact Statements Ongoing or Expected to be Prepared in the Next 24 Months

Office of Science – Fermi Site Office

31-Jan-11

Title, Location, Document Number	Estimated Cost	Estimated Schedule (NEPA Milestones)	Description	
Environmental Impact Statement for the Deep Underground Science and Engineering Laboratory, Lead, SD	TBD	EIS Determination Date:	4Q2011	The Deep Underground Science and Engineering Laboratory would be a multi-program Laboratory. It would be a good possible location for the Long Baseline Neutrino Experiment far detector. This EIS is expected to commence in late FY11 or early FY12. The National Science Foundation, which is the lead agency, has yet to prepare a Notice of Intent or schedule a scoping meeting.
		NOI:	TBD	
		Scoping:	TBD	
		Draft	TBD	
		Hearings	TBD	
		Final	TBD	
		ROD	TBD	
	Total Estimated Cost			
	\$0			