April 21, 2008 (Revision 0)

INTRODUCTION:

The General Services Administration (GSA) and the National Nuclear Security Administration (NNSA) have prepared this Mitigation Action Plan (MAP) for the following project: Modernization of Facilities and Infrastructure for the Non-Nuclear Production Activities Conducted at the NNSA's Kansas City Plant. Based on the analysis in the Environmental Assessment (EA) (DOE/EA-1592, April 2008) prepared for the proposal by the GSA and NNSA, neither the construction nor operation of the selected alternative would have a significant environmental impact. This conclusion is explained in the Finding of No Significant Impact (FONSI) issued by the GSA and NNSA on April 21, 2008.

This MAP contains mitigation and monitoring commitments for the project, including commitments set (or that would be set) in permits for the new facility. These commitments are designed to mitigate any adverse environmental consequences (even though they are not significant) associated with the relocation of NNSA's non-nuclear component production and procurement activities to a new facility at the intersection of Botts Road and Missouri Highway 150 in Kansas City, Missouri. This plan covers both implementation of mitigation measures and monitoring to ensure the efficacy of the mitigation techniques. As details of specific mitigation actions are further developed, this MAP will be updated. In addition, if, as a result of monitoring, the GSA or NNSA identify additional steps to reduce adverse environmental impacts this MAP will be updated, as appropriate. This MAP and related documentation, including the EA and FONSI, will be available on the following Websites: http://www.gsa.gov/kansascityplant and http://www.eh.doe.gov/nepa.

MITIGATION MEASURES

The mitigation measures identified in the table below address all phases of the project, from planning and design, through construction, and into facility operation. As some of the mitigation measures are applicable to more than one phase of the project, the tasks associated with each measure have been categorized as relating to either the Planning/Construction phase or the Operations phase in the coordinating tasks column of the table. Coordinating tasks designated as "Planning/Construction Phase" are associated with site planning and preparation, facility design, and facility construction. Much of this activity will be the responsibility of the selected project developer or the construction contractor. However, the GSA and NNSA will place appropriate requirements on the developer to ensure proper mitigation of impacts during the construction phase. In limited cases, the agencies can initiate certain mitigation measures or required permitting actions in advance of developer selection and contract award. "Operations Phase" mitigation measures identified in the coordinating tasks column are associated with facility management and production operations after the construction phase is complete. Under the selected alternative post-construction facility infrastructure management will primarily be the responsibility of the developer. NNSA will be responsible for production operations.

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In addition to the mitigation measures listed below, the GSA and NNSA understand that additional laws and mitigation measures may be triggered during any phase of the project (e.g. if cultural resources are encountered during land excavation; if petroleum is detected during the relocation of the subsurface pipeline, etc.). Both agencies recognize the obligation of themselves and their contractors to comply with such laws and other requirements although not specifically referenced in the tables below.

The following table describes the MAP and the actions that have been or will be implemented.

Affected Environment	Mitigation Action	Purpose	Coordinating Tasks	Party Responsible for Implementing	Status
Surface Water Hydrology	The facility will be	To minimize negative	Planning/Construction Phase:	A: GSA	A: Complete
- Wetlands	designed to avoid and	wetland and stream	Task A: Delineate wetlands and streams	B: GSA and	B: Open
	minimize impacts to the	impacts and to	on the proposed site	Developer	C: Open
	approximately 1.37	enhance the overall	Task B: Assess wetland and stream	C: GSA and	D: Open
	acres of wetlands and	quality of existing	impacts as related to site planning and	Developer	E: Open
	0.26 acres of streams.	wetlands and streams	facility placement	D: Developer	
	For any unavoidable	which are considered	Task C: Identify opportunities for on-	E: Developer	
	impacts, mitigation will	functionally impaired	site mitigation of impacts to water		
	be performed through	and are unlikely to	resources to include expansion of		
	on-site wetland creation	recovery naturally.	wetlands, stream relocation and		
	or restoration, stream	Mitigation will	restoration, and establishment of riparian		
	participation in a	Part 1022 Executive	Task D: Implement on-site mitigation		
	mitigation bank or in-	Order 11990 and	and compensatory mitigation as defined		
	lieu fee mitigation	Clean Water Act	in the Section 404 permit		
	agreement. ¹	Section 404.	in the beenon 404 permit.		
			Operation Phase:		
			Task E: Maintain and monitor		
			mitigation measures for needed remedial		
			action.		

¹ Mitigation banks are trust funds established for payment of fees where on-site mitigation is not, or cannot be, implemented. The in-lieu fee is a payment made to a mitigation bank in compensation for impacts to water resources. The fee is then used by the managers of the trust to improve or expand water resources in other locations.

Affected Environment	Mitigation Action	Dumoso	Coordinating Tasks	Party Begnonsible for	Status
Affected Environment	Miligation Action	rurpose	Coordinating Tasks	Implementing	Status
Surface Water Hydrology - Stormwater	Develop and use strategies to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume and duration of flow.	To minimize impacts to the environment associated with stormwater runoff. Mitigation will comply with the Energy Independence and Security Act of 2007, Section 438.	Planning/Construction Phase: Task A: Establish baseline conditions and incorporate design features (e.g. preservation of existing vegetation, establishment of vegetated open space, disconnection of areas of impervious surfaces, stormwater treatment utilizing engineered best management practices, minimizing paved surfaces, directing surface runoff of parking areas through vegetated drainages and waterways to the greatest extent practicable) to maintain or restore predevelopment hydrology. Task B: Implement stormwater management features per the final design Task C: Monitor effectiveness of control measures in achieving mitigation goal of maintaining predevelopment hydrology and implement corrective actions as needed.	A: Developer B: Developer C: Developer	A: Open B: Open C: Open

				Party	
Affected Environment	Mitigation Action	Purpose	Coordinating Tasks	Responsible for	
				Implementing	
Socioeconomic -	Develop and implement	To help communicate	All Phases:	A: GSA and	A: Open
Environmental Justice	a community	with the public and	Task A: Identify local community and	NNSA	B: Open
	involvement plan.	provide a community	community organizations	B: GSA, NNSA,	C: Open
		contact to respond to	Task B: Determine appropriate	and the	
		public questions or	communication mediums (e.g. website,	Developer	
		concerns.	newsletter, public meeting) and	C: GSA and	
			implement communications related to	NNSA	
			construction progress and status of		
			operations, including responses to		
			concerns that may be expressed by the		
			public during either phase of the project.		
			Task C: Designate and communicate to		
			the public a facility community contact to		
	D 1 1	TD 11 1 4 4 4 1	respond to public questions or concerns	A (10) A (1)	
Socioeconomic	Provide road	To alleviate potential	Planning/Construction Phase:	A: GSA and	A: Complete
Resources -	improvements to	future traffic	Task A: Conduct study to evaluate	NNSA D M	B: Open
Transportation	alleviate cumulative	congestion in the	cumulative traffic impacts and	B: Missouri	
	projected trainc	Vicinity of the Botts	Tecommend road improvements	Department of	
	congestion in the area.	construction and	Provide Improvements as	and Kansas City	
		operation	improvements will include addition of	Missouri	
		operation.	turn lanes and traffic signals at Botts	WIISSOUTT	
			Road Other road improvements which		
			may be provided in phases as traffic		
			demand increases include addition of		
			turn lanes and traffic signals at		
			Thunderbird Road, new interchanges		
			between Missouri Highway 150. Botts		
			Road and Thunderbird Road, and a		
			Thunderbird Road bridge over Missouri		
			Highway 150.		

Affected Environment	Mitigation Action	Purpose	Coordinating Tasks	Party Responsible for Implementing	Status
Air Quality	Prevent fugitive dust emissions during facility construction, and strive to reduce total facility operating annual air emissions to approximately 28% less than the 2006 annual air emissions levels of the current Kansas City Plant.	To minimize air emissions levels produced by the construction and operation of the new plant.	Planning/Construction Phase:Task A: Utilize control measures forlowering on-site fugitive dust emission(i.e. water or chemical dust suppressants)during construction of the facilityTask B: Implement solutions forachieving reduction in site air emissions(e.g. Low NOx burners)Operations Phase:Task C: Identify and implementpracticable technology andmanufacturing process improvementsolutions	A: Developer and Construction Contractor B: Developer C: NNSA	A: Open B: Open C: Open
Groundwater Hydrology, Surface Water Hydrology, Flora and Fauna, Air Quality, Socioeconomic Resources, and Solid and Hazardous Waste	Obtain certification in U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED). Strive for Gold Certification for New Construction. ²	To promote energy efficiency and sustainable environments by utilizing green design principles.	All Phases: Task A: Incorporate energy efficient and environmentally sustainable design principles. Required green design features include: construction activity pollution prevention, fundamental commissioning of the building energy systems, establishing minimum energy performance, fundamental refrigerant management, optimizing energy performance by 30%, storage &	A: Developer B: GSA C: Developer	A: Open B: Complete C: Open

² LEED is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings. The green building rating system developed by the U.S. Green Building Council promotes a whole-building approach to sustainability by recognizing performance in five areas: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. LEED Gold certification is the second highest level of certification offered by the U.S. Green Building Council. GSA and NNSA have committed to Gold Certification for New Construction (LEED rating system 2.2-NC) for this project. In pursuing this level of certification the agencies are demonstrating their commitment to sustainable green building and development practices.

Affected Environment	Mitigation Action	Purpose	Coordinating Tasks	Party Responsible for Implementing	Status
			collection of recyclables, establishing minimum indoor air quality performance.		
			Task B: Register project with the U.S.		
			Green Building Council		
			Task C: Go through LEED review and		
			certification process.		

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ENVIRONMENTAL PERMITS

Implementation of the selected alternative will require that certain construction and operating environmental permits be obtained. These permits provide a structure for identifying actual or potential impacts of the construction and operating phases of a project. The permits also provide an opportunity for the permitting authorities to identify controls and limits of operation to ensure the impacts are minimized or eliminated, a mechanism of surveillance and reporting to assist both the permitting agency and the permit holder to monitor compliance with the permit conditions and the effectiveness of the implemented controls, and an enforcement process to address noncompliance. The specific environmental permits required for this action include the following:

Permit	Issuing Agency	Permit Timing	Permittee	Requirements
Section 404 Individual Permit, Discharge of Dredge or Fill Material into Water (See Surface Water Hydrology – Wetlands)	U. S. Army Corps of Engineers (with 401 Water Quality Certification from the Missouri Department of Natural Resources (MDNR))	Prior to site work or construction.	Initially GSA. Upon receipt, the permit will be transferred to the developer.	 Permit will be issued based on a mitigation plan developed for impacts to waters of the U.S. Yearly biological assessment (typically for the first five years) of the mitigation site to ensure that the mitigation is in keeping with the development plan and the permit conditions An annual report submitted to the U. S. Army Corps of Engineers in support of the monitoring Remedial actions taken during the monitoring period to ensure that compliance requirements are met by year five. If the mitigation site in not successful, the applicant takes remedial action. The mitigation site is set aside in perpetuity.
General Permit for Construction or Land Disturbance	MDNR (the City of Kansas City, Missouri, has a similar permit requirement that must also be obtained and will contain many of the same requirements.)	Prior to site work.	Construction contractor	 Requires that controls be put in place to ensure the water quality standards are not violated. Housekeeping must be maintained to prevent solid waste from entering the waters of the state. Places requirements on fueling facilities and hazardous material storage and use. Requires the development of a stormwater pollution prevention plan that describes the control features and best management practices the developer will employ to ensure compliance with the permit.

Permit	Issuing Agency	Permit Timing	Permittee	Requirements
Air Construction Permit	Kansas City, Missouri	Prior to implementation of improvements to the site.	NNSA and Developer	This permit will allow for the installation of regulated air emission sources associated with both the facility construction and ongoing production operations. The permit will include federally enforceable emission limits for criteria pollutants and hazardous air pollutants that will be established below the levels of a basic air source. Monitoring and annual compliance reporting will be required by the permit. If federally enforceable emission limits are established, an air operating permit will likely not be required. Operations will be governed by the construction air permit.
Stormwater Operating Permit	MDNR	Prior to startup of production operations.	NNSA and its Operating Contractor	This permit will provide the requirements for discharge of stormwater from the site into waters of the state. The permit will include specific discharge limits, discharge monitoring requirements, and requirements for reporting monitoring results and events.
Industrial Wastewater Discharge Permit	КСМО	Prior to discharge from the industrial wastewater treatment system.	NNSA and its Operating Contractor	This permit regulates the discharge of industrial wastewater from the facility to the sanitary sewer system. It will provide discharge limits, describe monitoring frequencies and requirements, and define reporting requirements.