

WTA Task Definition

- 1) Task No. 010 2) Revision No: 10 3) Date: 20 September 2010
- 4) WTA Task Title: Waste Management Program
- 5) MOX Services Lead: John McGehee Phone/E-Mail: 819-2369 / jmcgehee@moxproject.com
- 6) SRNS Lead: Jasper Brown Phone/E-Mail: 952-4874 / jasper.brown@srs.gov

7) **Scope of Work for FY11:**

Construction Hazardous Waste

- a. Maintain and update waste management program interfaces with SRS during construction for potential and/or incidental hazardous waste. Identify the waste handlers, locations for waste storage, recycling, packaging, transportation and the ultimate treatment, storage and disposal (TSD) facilities. Maintain and update requirements for documenting waste transfers and transportation from MFFF to SRS and recordkeeping requirements.
 Note: Sanitary solid, special, and universal wastes from construction are managed through WTA-032; and medical waste from construction is managed through WTA-020.
- b. Provide sampling and analysis, sample result evaluation, disposition recommendation, transportation, recycle and/or disposal services for MOX Services potential hazardous materials during construction.
- c. Provide Emergency Management Response services for MOX Services incidental spill(s) of hazardous materials during construction.

MFFF Waste Streams

- d. Maintain and update characteristics of MFFF waste streams (i.e., radioactive, hazardous and mixed for solid and/or liquid form) for cold startup and operations; assess changes and effect on options for waste management.
- e. Participate in Waste Solidification Building (WSB) interface meetings and document reviews. Maintain and provide update of process changes, waste characteristic changes, and changes in waste stream projections at MFFF. Maintain and provide update to NRC requirements for documenting waste stream characteristics and transportation. Maintain and provide update for required frequency of waste transfer from MFFF to SRS.
- f. Develop plan to handle and disposition used cassette filters containing zirconium (Zr) fines and collection of loose Zr swarfs. Plan to include how the Zr material will be handled; where material be packaged and stored; how Zr material will be treated to render non-Pyrophoric so that the stream is optimally acceptable to SRS, NTS and/or WIPP for disposal.

Training

- g. Participate in SRS training programs for Generators Certification Official (GCO); Hazardous Material Transportation Representative (HMTR); and Waste Information Tracking System (WITS); and training required for SRS waste handlers for construction, cold start-up and operations.
- h. Determine training requirements and materials for MFFF waste handlers and waste management (WM) personnel for WM training program development.

8) **MOX Services Roles and Responsibilities:**

Construction

- a. Maintain and provide updates to waste management program interfaces with SRS during construction for incidental hazardous waste. Identify the waste handlers, locations for waste storage, recycling, packaging, transportation and the ultimate TSD facilities. Maintain and update requirements for documenting waste transfers and transportation from MFFF to SRS and recordkeeping requirements.

- b. Request sampling and analysis, sample result evaluation, disposition recommendation, transportation, recycle and/or disposal services for MOX Services potential hazardous materials during construction.
- c. Request response from SRS for MOX Services Emergency Management Response spills and unaccountable spills during construction.

MFFF Waste Streams

- d. Provide updates of waste stream characteristics to SRS to determine if changes result in management option changes. Notify SRNS of changes to the forecasts on an ongoing basis.
- e. Participate in Waste Solidification Building (WSB) interface meetings and document reviews. Maintain and provide update of process changes, waste characteristic changes, and changes in waste stream projections at MFFF. Maintain and provide update to NRC requirements for documenting waste stream characteristics and transportation. Maintain and provide update for required frequency of waste transfer from MFFF to SRS.
- f. Provide updates to information on MFFF operational waste streams to SRS for consideration of potential change to management options. Coordinate the interchange of technical information and waste management requirements with other affected MOX Services staff and conduct MOX Services/SRNS meetings with the objective of obtaining an updated draft Waste Certification Plan (WCP).
- g. Complete the review of and obtain approval for the MOX interface with SRS Solid Waste Management for MOX generated solid TRU and low-level waste Interface Control Document (ICD).
- h. Work with MOX Services Design Engineers to develop handling, treatment and disposition plan for waste materials containing Zr fines and swarfs. Provide updated information to SRS on waste streams containing Zr including: location where waste is generated; atmosphere (air or inert gas); the form of the waste; and the quantities.

Training

- i. Participate in SRS training programs including: Generators Certification Official (GCO); Hazardous Material Transportation Representative (HMTR); and Waste Information Tracking System; to obtain the specific requirements for documenting waste transfers to SRS, including shipping papers.
- j. Work with SRS to determine training requirements and materials for MFFF waste handlers and waste management personnel to develop training program for construction, cold start-up and operations.

9) SRNS Roles and Responsibilities:

Construction

- a. Provide assistance in managing hazardous waste inadvertently generated during construction activities. Level of support may range from reviewing and providing comment to updates to waste management program interfaces, locations for waste storage, recycling, packaging, transportation and the ultimate TSD facilities to direct support and oversight of waste management activities, e.g., hazardous waste management, satellite accumulation areas supervision, etc.
- b. Provide recovery services for MOX Services Emergency Management Response spills and/or unaccountable incidental spills (Not to include spills identified as spills for which subcontractors are held accountable). Estimate three incidents per year, < 1 yd³ each incident.
- c. Provide sampling and analysis, sample result evaluation, disposition recommendation, transportation, recycle and/or disposal services for MOX Services hazardous, potential hazardous and non-hazardous waste materials as requested during construction, as follows:
 - i. Liquids such as: oily water, process wastewater, solvents or other
 - ii. Used oil for recycle and/or energy recovery, up to 150 gallons per year
 - iii. Other associated waste, PPE, filters, oily rags and solvent rags, up to 2 yd³ per year

MFFF Waste Streams

- d. Review updates provided to characteristics of MFFF waste streams (i.e., radioactive, hazardous and mixed for solid and/or liquid form) for cold startup and operations; assess changes and effect on options for waste management.
- e. Participate in Waste Solidification Building (WSB) interface meetings, information exchanges and document reviews.
- f. Review draft WCP submissions by MOX Services and provide comments.
- g. Review and provide comments on the MOX generated solid TRU and low-level waste ICD.
- h. Review MFFF plan to handle and disposition waste containing zirconium (Zr) fines and provide comments and/or options to plans so the Zr stream is optimally acceptable to SRS, NTS and/or WIPP for disposal.
- i. Perform special studies or evaluations of waste treatment options for changes as described in a MOX Services provided Scope of Work. Produce accompanying ICD(s).

Note: This scope applies only to SRNS support of MFFF waste streams as it pertains to that facility. Any activities relative to waste stream disposal are considered part of the WSB project and charged accordingly.

Training

- j. Provide training services for Generators Certification Official (GCO) Hazardous Material Transportation Representative (HMTR); and Waste Information Tracking System for up to four MOX Services personnel.
- k. Provide information, materials and reviews for MOX Services training program development for MFFF waste handlers and waste management personnel during construction, and for cold start-up and operations.

General

- l. Provide information/data/documentation to support requests via the RFI process.

10 and 11) SRNS Deliverables and Schedule:

Construction Hazardous Waste

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| a. Provide waste management program interfaces with MOX Services for incidental hazardous waste from construction. | 30 Sept 11 |
| b. Provide recovery for MOX Services Emergency Management Response spills and unaccountable incidental spills. Estimated quantity of incidental hazardous waste is 100 lbs and/or 3 cubic yd. | As requested |
| c. Provide sampling and analysis, sample result evaluation, disposition recommendation, transportation, recycle and/or disposal services for MOX Services potential hazardous materials during construction, for: 1) Liquids such as: oily water, process wastewater, solvents or other; 2) used oil for recycle and/or energy recovery, up to 150 gallons per year; 3) other associated waste, PPE, filters, oily rags and solvent rags, up to 2 yd ³ per year. | 1) 31 Dec 10
2) 01 Mar 11
3) As requested |

MFFF Waste Streams

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| d. Review updates provided to characteristics of MFFF waste streams (i.e., radioactive, hazardous and mixed for solid and/or liquid form) for cold startup and operations; assess changes and effect on options for waste management. | 31 Dec 10 |
| e. Review draft WCP submissions by MOX Services and provide comments. | 30 June 11 |
| f. Review, provide comments on and approve the solid TRU and low-level waste ICD. | 31 Dec 10 |
| g. Review and provide comments on MFFF plans developed for handling, packaging, and treatment in preparation for disposal of waste streams containing zirconium and recommend options for management so that the streams are acceptable to SRS, NTS and/or WIPP. | 30 Mar 11 |
| h. Perform special studies or evaluations of waste treatment options. Produce accompanying ICF/ICD(s). | As requested |

Training

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| i. Provide annual training services including updates for Generators Certification Official (GCO); Hazardous Material Transportation Representative (HMTR); and Waste Information Tracking System for up to four MOX Services personnel. | 30 Sept 11 |
| j. Provide information and materials for MOX Services WM training program development for MFFF waste handlers and waste management personnel during construction, and for cold start-up and operations. | 31 July 11 |
| k. Once WM training program developed, review and provide comments with regard to compliance with SRS requirements. | 30 Sept 11 |

General

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| l. Interface with MOX Services to exchange information through the RFI process. This work will be scheduled via an RFI | As requested |
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Send any documents developed under this WTA to John McGehee.

12) Special Requirements:

None

13) Reporting:

A monthly report will be provided to the MOX SR Technical Manager (A. A. Blackmon), the MFFF Federal Project Director (C. H. Ramsey) and the MOX Services WTA Manager (J. M. Pope).

14) Cost Summary:

	TEC (MA 0901)	OPC (MA 0902)
	WTA Services	WTA Services
FY02 Actual:	\$0	\$ 6,200
FY03 Actual:	\$0	\$51,000
FY04 Actual:	\$0	\$28,000
FY08 Actual	\$10,000	\$0
FY09 EAC	\$35,000	\$0
FY10 EAC	\$25,000	\$0
FY11 Estimate	\$50,000	\$40,000

15) Detailed Estimate:

Activity	Total
MA 90 – WTA Services	
Cost Account 0901	\$40,000
Construction Hazardous Waste	
Recovery for MOX Services Emergency Management Response spills and unaccountable incidental spills. Estimated quantity of incidental hazardous waste is 100 lbs and/or 3 cubic ft.	\$5,000
Sampling and analysis, sample result evaluation, disposition recommendation, transportation, recycle and/or disposal services for MOX Services potential hazardous materials during construction, for:	\$30,000
<ul style="list-style-type: none"> – Liquids such as: oily water, process wastewater, solvents or other – Used oil for recycle and/or energy recovery, up to 150 gallons per year – Other associated waste, PPE, filters, oily rags and solvent rags, up to 2 yd³ per year 	
Requests for Services and WTA Support	\$5,000
Training	\$10,000
Training services for MOX Services personnel:	
<ul style="list-style-type: none"> – Generators Certification Official (GCO); – Hazardous Material Transportation Representative (HMTR); – and Waste Information Tracking System (WITS) 	Training costs are covered in WTA-033.
Information and materials for MOX Services WM training program development	
MOX Services WM training program review	\$5,000
MA 90 – WTA Services	
Cost Account 0902	\$40,000
MFFF Waste Streams	
Updates to characteristics of MFFF waste streams for cold startup and operations; assess changes and effect on options for waste management.	\$5,000
WCP review	\$10,000
Solid TRU and low-level waste ICD review	\$5,000
MFFF plans review for handling, packaging, and treatment in preparation for disposal of waste streams containing zirconium and recommend options for management.	\$10,000
Special studies/evaluations of waste treatment options. ICD(s)	\$10,000
Total	\$90,000

16) Work Authorization Approvals:

SRNS WTA Manager: W. P. Martin

Date: 20-SEPT-10

MOX Services WTA Manager: J. M. Pope

Date: 20 Sept 10

MOX SR Technical Manager: A. A. Blackmon

Date: 13 Oct 10

MFFF Federal Project Director: C. H. Ramsey

Date: 10/13/2010

17) Task Completion:

SRNS WTA Manager: _____

Date: _____

MOX Services WTA Manager: _____

Date: _____