
APPENDIX 7

G-FSP-G-00030

REV. (5)

**Functional Service Agreement between
Savannah River Nuclear Solutions, LLC**

and

Centerra Group, LLC

for

Engineering

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1.0 INTRODUCTION

This Functional Service Agreement, appendix 7 of Memorandum of Agreement (G-MOA-G-00010) describes the service exchange between Savannah River Site (SRS and/or the Site) Management and Operating (M&O) contractor, Savannah River Nuclear Solutions, LLC (SRNS) and Centerra - SRS Group, LLC.

This appendix describes the engineering baseline work to be provided. Included are programmatic responsibilities for the Site, as well as certain tasks related to monitoring program effectiveness and activities considered to be part of Site Landlord Services. Task-related activities that are requested will be documented in this Functional Services Agreement (FSA) as defined in Contract Officer direction to SRNS.

The parties agree to review this FSA periodically (not to exceed a period of two years) and revise it if changes are needed as determined by both parties.

2.0 POLICIES, PROCEDURES, AND MANUALS

The support and coordination of the Engineering policies, procedures and manuals provided to Centerra - SRS are part of the overall Engineering Program. These policies and procedures provide engineers, safety analysts, etc., the administrative and technical requirements that promote consistency across the site and help to ensure safety and cost effectiveness. SRNS Engineering is responsible for keeping the program current with the latest U.S. Department of Energy (DOE) Orders, responding to external audits, providing timely guidance to meet field needs, maintaining alignment with other site programs, providing and implementing corrective action plans, addressing management initiatives and inquiries, and other functions deemed appropriate. The following describes detailed services that SRNS will provide to Centerra - SRS:

- Maintaining content and coordinating review and approval of all site engineering procedures, including
 - Manuals E7 - Conduct of Engineering
 - 3E - Procurement Specification Procedures
 - 11Q - Facility Safety Documentation
 - 19Q - Transportation Safety
 - SCD-11 - Consolidated Hazards Analysis Process Program and Methodology Manual
 - 2Q - Fire Protection Manual
 - 1B - Management Requirements and Procedures related to suspect/counterfeit items
- Providing Lead Engineering Standards and Requirements Identification Documents (S/RID) for Functional Areas (FA):
 - FA-03 - Configuration Management
 - FA-07 Engineering Program
 - FA-12 - Fire Protection
 - FA-13 - Packaging and Transportation
 - FA-18 - Nuclear and Process Safety

- Supporting, through review and consultation, responses to compliance questions.
- Incorporation and applicability reviews of new or additional requirements (e.g., DOE Orders, DOE standards, American Nuclear Society (ANS) standards). Develop Site-wide implementation plans for new requirements in concert with input from Centerra - SRS.
- Overseeing and controlling all Site-level engineering committees. The subject committees include but are not limited to Conduct of Engineering Committee (including the Asset Suite Subject Matter Experts Group representation, and SmartPlant Foundation (SPF) management functions), Safety Basis Steering Committee, and the Site Nuclear Criticality Committee.
- Maintaining the Site Engineering Services web page content on InSite (e.g., E7, Engineering Standards, Systems Engineering Knowledge Tools, Fire Protection Program)
- Working with Document Control to manage Engineering document types used by the Document Control Register (DCR)
- Manage the control point for functional identifiers and system acronyms used in the site Master Equipment List (MEL).
- Providing development, procedural guidance, and consolidated reporting for the DOE Energy Management Program.
- Providing technical support for interpreting Site programs via verbal communications as well as via document reviews as appropriate.

3.0 CODES AND STANDARDS

The Engineering Standards Program identifies and manages the application of both national consensus codes/standards, and SRS Engineering Standards and Guides. SRS standards are intended to supplement the requirements from national codes and standards, DOE Orders, local codes, and federal and state regulations. SRS engineering standards have been developed only for subject matter not contained in national codes and standards, unique Site requirements relative to existing national codes and standards, and justifiable unique Site applications or configurations. SRS engineering standards use at SRS is mandatory. The Engineering Standards Board (ESB) is the steering committee for the use and application of codes and standards and is responsible for sponsoring and overseeing the management of the SRS Engineering Standards Program. The ESB will have one co-chairperson from SRNS and one co-chairperson from SRR. The ESB is responsible for managing Technical Committees in support of the Engineering Standards Program. SRNS is responsible for appointing an ESB Engineering Standards Coordinator. ESB Technical Committees are the Site experts on codes and standards. SRNS Technical Committee members will support consultation on specific applications of codes and standards including reviewing and concurring with such items as specific implementation issues, code equivalency independent peer reviews, etc. SRNS will provide programmatic support oversight of the Engineering Standards Program. SRNS will maintain the ESB manuals, and an SRNS engineer will serve as the ESB Engineering Standards Coordinator. The scope of the support includes:

- Support Engineering Standards Board
- Support Technical Committees
- Develop Management Review Plans (MRPs) and charters related to Engineering Standards
- Maintain Engineering Standards Manual (WSRC-TM-95-1)
- Maintain Engineering Practices Manual (WSRC-IM-95-58)
- Manage Archived DuPont Standards and Archived Engineering Standards Manual (WSRC-TM-92-10)
- Maintain InSite access to the Engineering Standards Program documents
- Manage access to National Codes and Standards most often used at SRS via the IHS network.
- Provide Site-required specifications such as high efficiency particulate air (HEPA) filters, welding, etc.
- Maintain ASME Code Stamps (U), (R), and (VR). This activity includes such items as programmatic assistance on ASME code stamp issues, coordination of authorized inspector reviews, scheduling code stamp certification evaluations, support of the valve shop for VR stamp activities. Review of a facility/ project-specific work scope will be handled via agreement with Centerra - SRS funds transfer as appropriate to be coordinated through Centerra - SRS and SRNS SS&ES.
- Maintain welding and Nondestructive Examination (NDE) programs and site manual maintenance.
- Lead Pressure Protection Program and Pressure Equipment Protection Committee (PEPC). This includes documentation requiring PEPC review.
- Provide subject matter expertise in the application of codes and standards. This includes the development and/or approval of calculations required by codes/standards, the review of Code Standard Equivalencies upon request, establishment of technical positions regarding code requirements, etc.
- Provide Technical support for issues concerning delegated International Building Code (IBC) Building Official duties for the site and when delegated Authority Having Jurisdiction for non-National Fire Protection Association (NFPA) codes.

4.0 SERVICES

4.1 Site Infrastructure Engineering (SIE)

- SIE will act as the facility Design Authority for facilities for which SRNS is responsible for operating and maintaining; including, the ammunition bunker structures.
- Regarding the ammunition bunker, SIE assumes no responsibility for management of explosive inventory. Centerra - SRS is required to provide facility inventory information to SIE, including guidance on specific requirements from the DOE Explosive Safety Manual that are to be invoked for a particular facility.

- SIE will provide appropriate support for Centerra - SRS small construction projects that are approved by DOE-SR in support of Centerra - SRS infrastructure needs. This support provided during design activities includes Site Real Property Configuration Control, Power Services Utilization Permits, and other functions required to support small construction projects. Funding for these services is considered direct work, covered by Financial Plan transfers as appropriate, and coordinated through SRNS Safeguards, Security & Emergency Services (SS&ES) Project Control Management.
- SIE will provide design reviews for Centerra - SRS small construction projects. These reviews will be performed prior to initiation of physical work. The review of specific design output for compliance against a design input is considered a direct work will be covered by Financial Plan transfers as appropriate and coordinated through SRNS SS&ES Project Control Management.
- SIE will review and approve all Centerra - SRS design and engineering projects that will create or change a facility that SRNS is responsible for maintaining prior to initiation of any modification and/or work. The review of specific design output for compliance against a design input is considered a direct work will be covered by Financial Plan transfers as appropriate and coordinated through SRNS SS&ES Project Control Management.
- SIE will perform services as Technical Agency for SS&ES, responsible for the final acceptability of, and changes to, the design of structures, systems and components (SSCs) that implement S&S program requirements.
- SIE will review and approve as the Technical Agency proposed modifications to SS&ES SSCs that are requested to support Centerra - SRS initiated small projects. This activity is considered direct work, covered by Financial Plan transfers as appropriate, and coordinated through SRNS SS&ES Project Control Management.
- SIE will support Centerra - SRS performance testing as requested and scheduled (typically 30 days in advance).
- SIE will support Centerra - SRS in the area of Pressure Safety as required by 10CFR851 and SRID. SIE will evaluate pressure vessels, piping, and pressure protection relief devices to ensure they comply with applicable National and local codes. If discrepancies are encountered, SIE will provide evaluation and disposition in accordance with Site Manuals and Standards. New (pressurized) items to be purchased or constructed will be reviewed by SIE subject matter experts during the Design review.

4.2 Fire Protection Engineering (FPE)

- FPE will act as the fire system (e.g., suppression, supply, detection) Design Authority for facilities for which SRNS is responsible for operating and maintaining including the ammunition bunker structures.
- FPE will maintain Manual 2Q, Fire Protection Program, and conduct periodic assessments to ensure requirements are being met.

- FPE will prepare, approve and transmit Fire Protection-related engineering evaluations to the U.S. Department of Energy-Savannah River (DOE-SR) for the purpose of seeking equivalency/exemption/variance to applicable S/RID, DOE Order/Guide or Code Requirements as required for Centerra - SRS facilities.
- FPE will provide engineering interpretation of requirements, including consultation for issue resolution and peer review of technical information for alignment with programmatic requirements.
- FPE will coordinate SRS Fire Program Reviews by external organizations including response preparation and resolution.
- FPE will provide appropriate support for Centerra - SRS small construction projects that are approved by DOE-SR in support of Centerra - SRS infrastructure needs to ensure compliance with fire protection requirements during design activities. Funding for these services is considered direct work, covered by Financial Plan transfers as appropriate, and coordinated through SRNS SS&ES Project Control Management.

4.3 Design Engineering (DE)

DE will provide appropriate support for Centerra - SRS small construction projects that are approved by DOE-SR in support of Centerra - SRS infrastructure needs. Services will be in accordance with Manual E7 and applicable SRNS Engineering Standards as described above. The preparation of specific design output for compliance against design input is considered direct work, covered by Financial Plan transfers as appropriate, and coordinated through SRNS SS&ES Project Control Management.

4.4 Process Control and Automation Engineering (PC&AE)

- PC&AE will provide appropriate Design Authority support for Centerra - SRS small construction projects that are approved by DOE-SR in support of Centerra - SRS infrastructure needs. Services will be in accordance with Manual E7 and applicable SRNS Engineering Standards as described above. The preparation of specific design input for compliance is considered direct work, covered by Financial Plan transfers as appropriate, and coordinated through SRNS SS&ES Project Control Management.
- PC&AE will provide appropriate Systems Development and Operational support of systems for Centerra - SRS that are approved by DOE-SR in support of Centerra - SRS security system needs. Services will be in accordance with Manual E7 and applicable SRNS Engineering Standards as described above. The preparation of specific design input for compliance is considered direct work, covered by Financial Plan transfers as appropriate, and coordinated through SRNS SS&ES Project Control Management.

5.0 INTERFACE CONTROL INFORMATION

This section is not applicable for Engineering.

6.0 SERVICE INFORMATION SUMMARY

Service	Estimated Units
Design Authority Support (SIE)	Incidental
Performance Testing Support (SIE)	Incidental
Fire Protection Engineering Support (FP System Design Authority Support, FP-related Eng. Evaluations, Program Review Coordination, Administration, Eng. Interpretations)	Incidental
Design Engineering (DE)	Incidental

7.0 POINTS OF CONTACT

Both parties shall assign single POCs who will be responsible for coordinating and administering all matters related to this agreement. All requests for services shall flow through these POCs (or their functional designees). The POCs for this agreement are:

SRNS: Rodney L. Rabon
Site Infrastructure Engineering Chief Engineer

Centerra - SRS: Michael O. Redd
Project Engineer Administrator,
Security Support Division

8.0 APPROVALS

W.E. Wallace for JCW

J. C. Wallace
Chief Engineer
Savannah River Nuclear Solutions, LLC

6-30-2017

Date

Raymond H. Smith

Raymond H. Smith
Vice President and Deputy General Manager
Centerra Group, LLC

6/29/17

Date



Temporary Delegation of Authority

	Start	Through
Temporary Delegation Dates:	06/30/2017 12:00 AM	07/03/2017 11:59 PM
Current Status:	Active	
Reason for Delegation:	out of office	
Recipients you wish to notify:	Engineering Managers	
Attachments:		

	Delegator (From)	Delegatee (To)
Name	WALLACE, JAMES CLARENCE III	HARRIS, WILLIAM E JR
User ID	D7699	O5596
Company	SRNS	SRNS
Department	B0000 - EVP/COO	E0000 - ENGINEERING
Location	730-4B, Room 335	730-4B, Room 333
Phone	8039527939	8039527294
Permanent LOA	1	2
Contact Information	27939	27294
Pager		11166
Delegator has CAM Authority and wishes to delegate it?		

Employee	Action Taken	Status	Date
Celina Pittenger	Temporary delegation created	Draft	6/30/2017 9:26:10 AM
Celina Pittenger	TDA Set to Active	Active	6/30/2017 10:36:03 AM
Celina Pittenger	Email Notifications generated	Active	6/30/2017 10:36:03 AM