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**APPENDIX 10**

**G-FSP-G-00033  
REV. (3)**

**Functional Service Agreement between  
Savannah River Nuclear Solutions, LLC  
and  
Centerra Group, LLC  
for  
Utility Services**

**May 27, 2015**

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**TABLE OF CONTENTS**

| <u>Section</u> .....                               | <u>Page No.</u> |
|--|-----------------|
| <b>1.0 INTRODUCTION</b> .....                      | <b>3</b>        |
| <b>2.0 POLICIES, PROCEDURES, AND MANUALS</b> ..... | <b>3</b>        |
| <b>3.0 CODES AND STANDARDS</b> .....               | <b>3</b>        |
| <b>4.0 SERVICES AND SUPPORT REQUESTS</b> .....     | <b>3</b>        |
| <b>4.1 Electrical Service</b> .....                | <b>5</b>        |
| <b>4.2 Domestic Water Services</b> .....           | <b>6</b>        |
| <b>4.3 Sanitary Wastewater Services</b> .....      | <b>6</b>        |
| <b>5.0 INTERFACE CONTROL INFORMATION</b> .....     | <b>6</b>        |
| <b>6.0 SERVICE INFORMATION SUMMARY</b> .....       | <b>7</b>        |
| <b>7.0 POINTS OF CONTACT</b> .....                 | <b>7</b>        |
| <b>8.0 APPROVALS</b> .....                         | <b>7</b>        |

## **1.0 INTRODUCTION**

This Functional Service Agreement (FSA) describes the Utility Services work to be provided to Centerra Group, LLC at the Savannah River Site (Centerra-SRS). Included as part of base load activities are programmatic responsibilities for the site as well as certain tasks related to ensuring/interpreting program effectiveness and activities considered to be part of the Site Utilities and Operating Services. Direct work task-related activities that are more project- or facility-specific in nature will be part of the Service Level Agreements (SLAs).

## **2.0 POLICIES, PROCEDURES, AND MANUALS**

N/A

## **3.0 CODES AND STANDARDS**

N/A

## **4.0 SERVICES AND SUPPORT REQUESTS**

Proper maintenance of utilities systems includes maintenance outages. SRNS will work with Centerra-SRS to negotiate the scope and time line for required maintenance of utilities systems including maintenance outages.

Any planned operational evolution that will (or possibly could) affect availability of utility services will be preceded by notification to and authorization from the impacted Centerra-SRS facility. The notice shall be made at least 24 hours in advance of the activity. All communications, including outage planning, must go through the appropriate personnel. See the SRNS website for Points of Contact (POCs). Notification to the affected Centerra-SRS Building Coordinator is required before any inspections are conducted or any work is performed by SRNS.

SRNS will have and provide sufficient system capacity. All mechanical/electrical additions planned by Centerra-SRS will follow current Power Service or Utilization Permit (PSUP) requirements. The PSUP grants permission to add or remove water, sewage, steam and electrical users to existing systems. PSUPs are used by SRNS to maintain a record of existing and future loads of plant systems that require the use of SRNS provided utilities. Based on data obtained from approved PSUPs, projects can be planned and implemented to upgrade, replace and/or add equipment for those systems that have reached or are approaching their maximum capacity. PSUPs also ensure that protective devices for SRS

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medium and high voltage electrical systems, 13.8kV and higher, as well as the first transformer secondary devices, are properly applied, coordinated, and documented.

The utility services budget is developed based on forecasted service requirements for each commodity (electricity, domestic water, and sanitary waste treatment). Based on the total forecasted consumption, the annual cost to provide that service is developed and a unit rate is calculated. The unit rate is then used to develop the customer's fiscal year cost based on the forecasted consumption. Each month the cost and consumption profile for the fiscal year are updated to ensure the service pool cost will be cleared at yearend. (This same concept is used to clear an organization's overhead pool). The standard rates will be adjusted to actual cost at least once annually. Emergent events such as a D-Area Boiler tube failure can result in unforecasted cost, including a purchased power demand penalty (rate ratchet). Should this occur, the cost of providing service will increase and service consumers will be billed commensurate with consumption.

Utility services are provided on demand and are charged based on usage for most systems, or system capability for fire suppression water system service. Consumption is measured mid-month to mid-month.

For the current fiscal year, consumption data is being collected as before. However, the costs will be allocated between Centerra-SRS administration facilities and operations facilities. The separate billing elements are listed in the utility tables that follow. Electrical, Domestic Water and Sanitary Wastewater are the only utilities billed to Centerra-SRS and are described below.

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**4.1 Electrical Service**

Electrical Support to Centerra-SRS Facilities is identified, tracked and billed through the Power Quantitative Cost Distribution (PQCD) System. There are eleven power consumption inputs that cover the facilities occupied by Centerra-SRS. Billing is calculated both by metered stations and by consumption calculations. The current breakdown of these points is listed below. At the beginning of the fiscal year, occupancy numbers are confirmed and adjustments are made accordingly.

**Administrative Facilities**

| Area | Meter | Description                   | Billing Allocation |
|------|-------|-------------------------------|--------------------|
| C    | #21   | Centerra-SRS 707-C Electrical | 28%                |
| G    | #13   | Feeds 703-B, 703-1B, 703-5B   | 100%               |
| G    | #26   | 752-12B feeds Building 703-1B | 100%               |
| L    | #62   | ATTA Range                    | 100%               |

**Operations Facilities**

| Area | Meter | Description                                       | Billing Allocation |
|------|-------|---|--------------------|
|      |       |   |                    |
| G    | #30   | All active Perimeter Barricades in G Area         | 100%               |
| H    | #100  | Centerra-SRS Patrol Headquarters                  | 100%               |
| H    | #89   | 252-58H (720-WSM)                                 | 100%               |
| K    | #62   | Centerra-SRS Area Gatehouse & Patrol Headquarters | 100%               |
| A    | #127  | Guard shacks in A Area                            | 100%               |
| A    | #126  | Central alarm Station (752-82A)                   | 100%               |

#### 4.2 Domestic Water Services

Domestic Water consumption is gathered in C, G, H, K, L and A Areas. The percentage of the SRS water customers assigned to each organization or company in each area is calculated annually and customers are billed according to their percentage of the area population.

Daily flow readings are taken at the A and B domestic water plants and accumulated for each billing month. Site Infrastructure Engineering generates a Domestic Water System Demands document once per year, identifying the average amount of domestic water used in each SRS area. This data comes from flow meters on the supply lines into various areas including A, B, C, E, F, Forestry, H, N, and S/Z. The area demands are used to distribute the monthly production from the main water plants. Customer distribution within each area is determined by area headcount. Below are the Centerra-SRS headcount percentages by area and type of facility (administrative or operations) used for billing purposes:

| Area  | Centerra-SRS Portion of Area Consumption | Facility Type  |
|-------|--|----------------|
| C     | 11.111 %                                 | Administration |
| G (B) | 8.842 %                                  | Administration |
| K     | 27.708 %                                 | Operations     |
| A     | 4.303 %                                  | Operations     |

#### 4.3 Sanitary Wastewater Services

Sanitary Wastewater billing percentages and facility types are duplicated from the Domestic Water calculations.

| Area  | Centerra-SRS Portion of Area Consumption | Facility Type  |
|-------|--|----------------|
| C     | 11.111 %                                 | Administration |
| G (B) | 8.842 %                                  | Administration |
| K     | 27.708 %                                 | Operations     |
| A     | 4.303 %                                  | Operations     |

#### 5.0 INTERFACE CONTROL INFORMATION

This section is not applicable for Utility Services.

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