

Environmental Management Systems at the Savannah River Site

An Overview of the 2021 Audit and Declaration of Conformance to the ISO 14001:2015 EMS Standard

Ted Millings
EMS Coordinator, SRNS

*SRS Citizens Advisory Board
March 22, 2022*

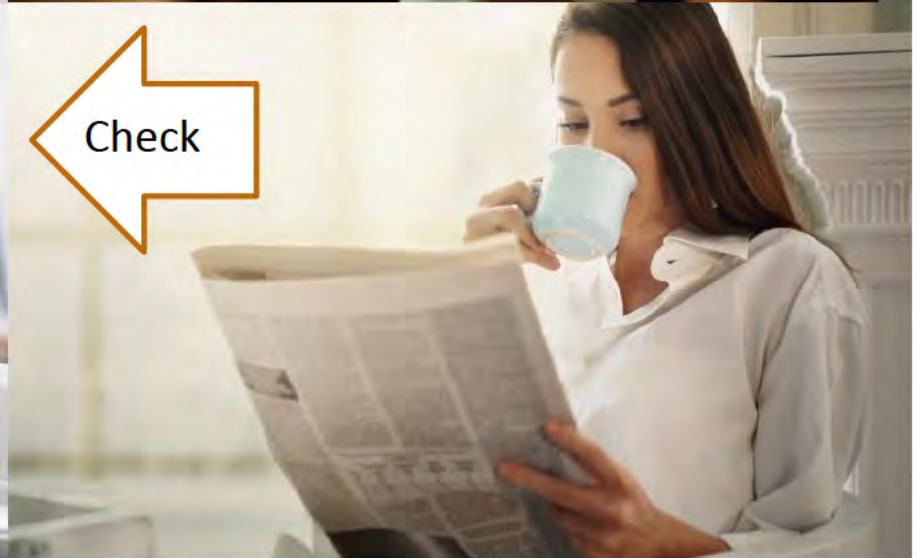
Purpose

- To fulfill a 2021 Facilities Disposition and Site Remediation Committee Work Plan Commitment
- To provide an overview of the 2021 Environmental Management System (EMS) Triennial Audit for Savannah River Nuclear Solutions, LLC (SRNS), and Savannah River Remediation, LLC (SRR)
- To inform interested parties of declaration of conformance to the ISO 14001:2015 EMS standard

When you make coffee...

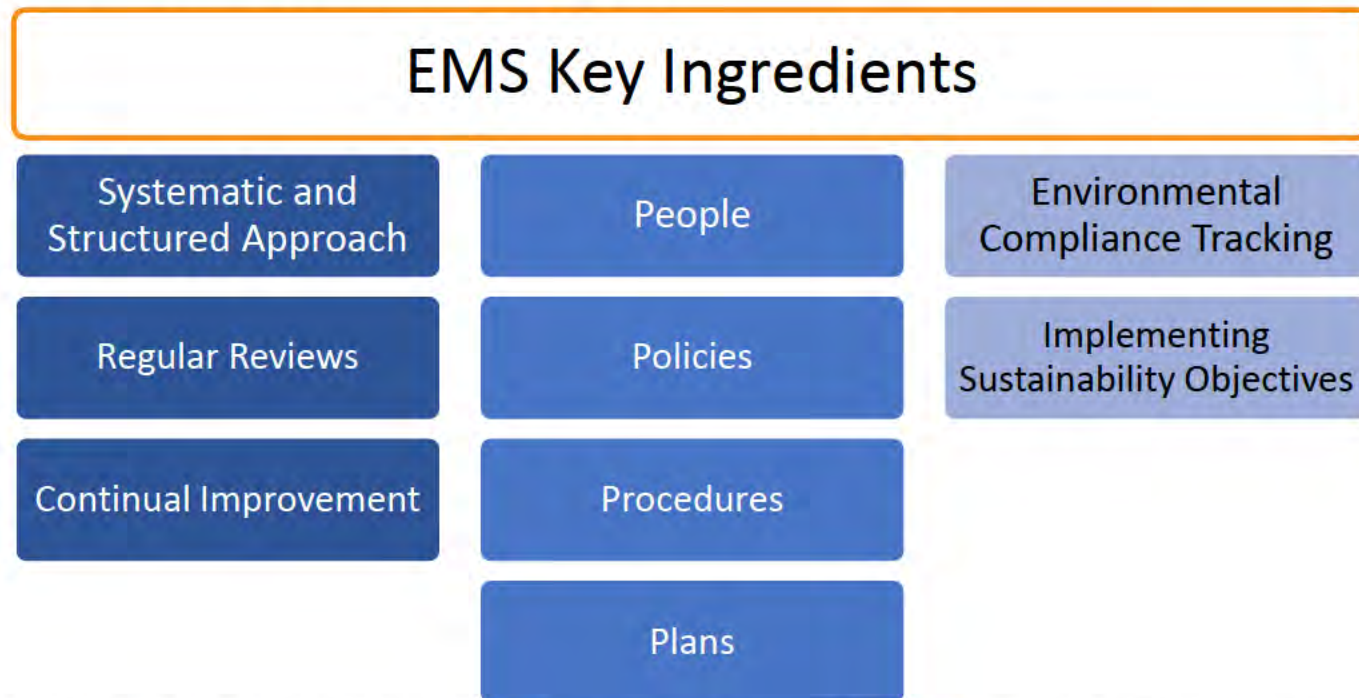


When you put it all together...



What is an Environmental Management System? What is ISO 14001?

- EMS is a strategic framework to help ensure environmental compliance and to achieve Federal Sustainability goals

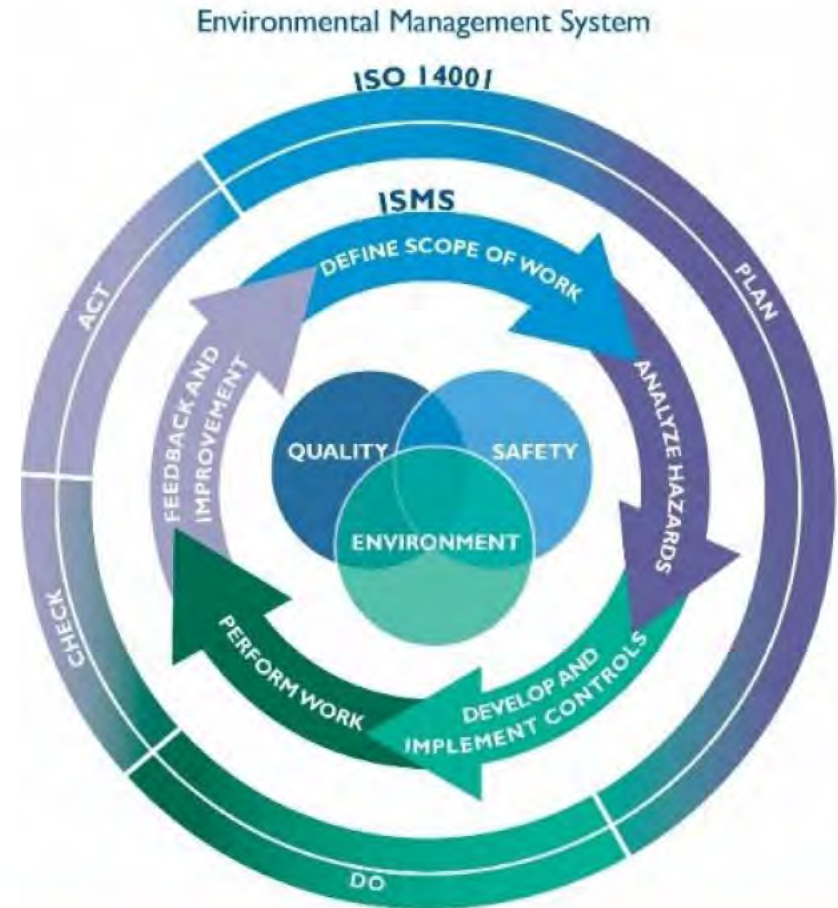


- ISO 14001 is an international standard developed by the International Organization for Standardization
- ISO 14001:2015 specifies the requirements for an EMS that an organization can use to enhance its environmental performance

Background

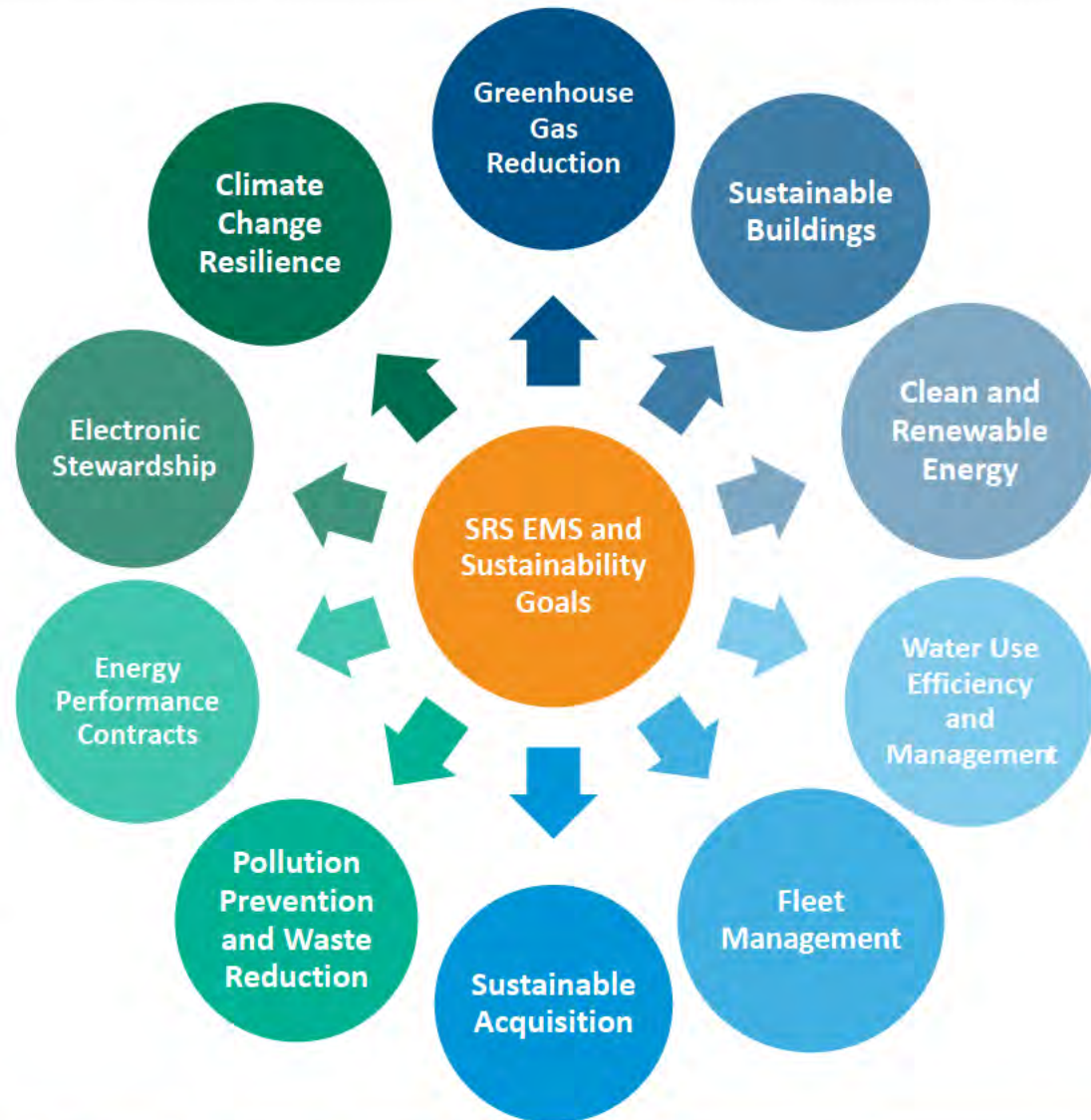
SRS uses an Integrated Safety Management System (ISMS) approach to accomplish EMS goals to:

- Manage environmental obligations in an organized manner
- Streamline work activities and continuous improvements for managing environmental programs
- Reduce risk of noncompliance with regulatory requirements and minimize all environmental impacts



EMS and Sustainability

- Achieving sustainability goals is part of the site EMS
- EMS and ISO 14001 elements are utilized to identify sustainability initiatives, and achieve sustainability goals
- Some of the goals the Site excels in are a direct result of utilizing the EMS for continual improvement upon our targets



Environmental Management System (EMS) Requirements

DOE Order 436.1, Departmental Sustainability

- SRS is required to implement EMS per the DOE O 436.1, and the ISO 14001:2015 standard
- DOE Site Manager ensures that EMS covers all site activities and conforms to the ISO standard
- Each site shall undergo a formal audit by qualified party outside the control or scope of the EMS every three years
- The audit findings shall be accepted by the DOE Site Manager who is accountable for the implementation of the EMS
- The DOE Site Manager shall declare conformance to EMS requirements based on the results of the formal audit by October 1 of the audit year

EMS Audit Scope and Schedule

- Scope of the Audit – All programs and activities performed by SRNS and SRR are evaluated against ISO requirements
- Hybrid audit approach – Remote and Onsite Visits
 - *Document review and Interviews remotely – April 1-29, 2021*
 - *Field visits to four facilities*
 - Central Sanitary Wastewater Treatment Facility, Saltstone, Solid Waste Management Facility, and M-Area Remediation
- Audit onsite visits and interviews scheduled – April 26-29, 2021
 - *Kick-Off meeting (In-brief) – April 22, 2021*
 - *Close out meeting (Out-brief) – May 6, 2021*
- Audit Team
 - *ISO 14001 certified lead auditor*
 - *team member from DOE-HQ*

EMS Audit Results

- Overall results
 - EMS was effectively administered
 - *Activities surrounding Environmental Protection, Environmental Operations, and significant environmental remediation projects are well coordinated, managed and operationally sound.*
- Strengths
 - Operation:
 - *Effectively operate, maintain, and control processes for response to emergency situations;*
 - Performance Evaluation:
 - *High levels of competence in the monitoring, measurement, analysis and evaluation (internal audit, and management review)*
 - Improvement:
 - *Several award winning initiatives with the employee feedback process generating thousands of suggestions annually, with many of them in the environmental improvement and sustainability*
 - *Use of the Site Tracking, Analysis and Reporting (STAR) system to track assessment reports and corrective actions and opportunities for improvement*

EMS Audit Results (continued)

Four Opportunities for Improvement (OFI) Identified in the Audit Report

- Environmental Policy

SRNS and SRR environmental scope and policy should be more organizationally focused in the EMS(s).

- Environmental Aspects

The criteria for the determination of significant environmental aspects could be more rigorously defined.

- Support

Sustainability should be more systematically integrated in the EMS per the DOE Order 436.1, requiring DOE sites to use EMS as a platform for implementation of Sustainability goals

- Competence

Conformance to ISO 14001:2015 programmatic requirements could be enhanced by increasing the number of responsible personnel trained for ISO 14001:2015 implementation.

Plan of Action and DOE Oversight

- SRNS has created a plan of action for closing each of these OFIs
 - SRNS EMS Coordinator is
 - *Tracking these items to closure*
 - *Documenting actions taken to improve upon EMS and communicating these actions across environmental personnel, management and leadership*
 - DOE EMS manager will
 - *Ensure that the responses to these OFIs include corrective and preventative actions, and will perform effectiveness reviews*
 - *Ensure that the competence (training) for ISO 14001 is successful and accomplished in a timely manner*

Declaration of Conformance with ISO 14001:2015 Standard

- **Audit Team determined that the EMS for SRNS and SRR conforms to ISO 14001:2015**
- **DOE-SR Manager declared that the EMS for SRNS and SRR conforms to the ISO 14001:2015 standard as required by DOE Order 436.1**
- **The next conformance audit will be in 2024.**

DOE O 436.1-2016

United States Government

Department of Energy (DOE)

memorandum

Savannah River Operations Office (SR)

DATE: February 24, 2022

REPORT TO:
ATTN: AMIES (M. Ndingwan, [803] 952-6034)

SUBJECT: Declaration that the Savannah River Site (SRS) Environmental Management System (EMS) conforms to the International Organization for Standardization's (ISO) 14001:2015 Standard

TO: Distribution

REF: Memo, Moury to Distribution, Departmental Use of Environmental Management System, dated October 24, 2016

This memorandum documents that the EMS for Savannah River Nuclear Solutions, LLC (SRNS), which also covers Savannah River Remediation, LLC (SRR), conforms to the ISO 14001:2015 standard. This declaration is based on the results of a formal audit by Centerra, LLC and the United States Department of Energy, Office of Sustainable Environmental Stewardship (AU-21), both qualified parties outside the control or scope of the EMS, and on my oversight of the SRNS/SRR EMS. This satisfies the requirements of DOE O 436.1, §§ 4.c.(3) and 5.e.(2).

The audit was conducted April 22 through April 30, 2021. The audit report is attached. Based on my review of the audit results, the EMS conforms to the ISO 14001:2015 standard. The scope of the EMS includes all programs and activities performed by the management and operations contractor (SRNS) and the liquid waste operations contractor (SRR) at SRS, to include their sub-contractors, who combined carry out Site remediation, environmental restoration activities, and on-going nuclear, industrial, and infrastructural operations.

This memorandum additionally documents that Centerra – Savannah River, the security contractor is registered and has recertified to the ISO 14001:2015 standard by an accredited ISO registrar. The most recent full registration audit for Centerra was conducted by NSF International Strategic Registrations, in December 2020, and the certificate of registration C0005417-EM15 was reissued on February 5, 2022 to revise the inaccurate date. A copy of the certificate is attached. The scope of their EMS includes all programs and activities performed by the security contractor at SRS.

For further information, please contact Maatsi Ndingwan at (803) 952-6034.

Sincerely,

Michael D.
Budney

Michael D. Budney
Manager
Savannah River Site

AMIES-22-008

(3) Attachments:

1. Independent Assessment of Environmental Management System for SRNS/SRR
2. ISO 14001 Audit Summary of Centerra – Savannah River
3. Copy of ISO 14001:2015 Certificate of Registration – Centerra – Savannah River

SRS Environmental Policy

Leadership in Environmental Excellence

The goal of the environmental policy is to protect our families, and future generations from any impacts of the site's operations.

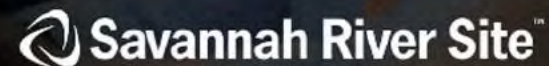
Our commitments are to: (P2C2)

- **Promote** sound environmental stewardship
- **Prevent** pollution on site and in our communities
- **Conduct** science and energy research
- **Continue** our nation's national security mission

We do this through the 4 C's:

- **Comply** with environmental laws and regulations
- **Continue** process improvements
- **Conduct** safe operations
- **Communicate** with our workforce, public and stakeholders

SRS Environmental Policy, Chapter VI, DOE SRS Policy Manual, SRSPM 250.1.1F



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