

SRS EMS DOE 450.1A "Declaration of Conformance" External Audit

Eloy Saldivar, Jr.

SRNS Regulatory Integration and Environmental Services 8/27/09

2009 DOE ISM Conference

Agenda

- EMS Customer Satisfaction
- Contractor Profile/Integration
- Integration of EMS into ISM
- EMS External Audit
- EMS "Declaration of Conformance"
- EMS Configuration Control
- EMS Impact on SRS Processes, Products and Services

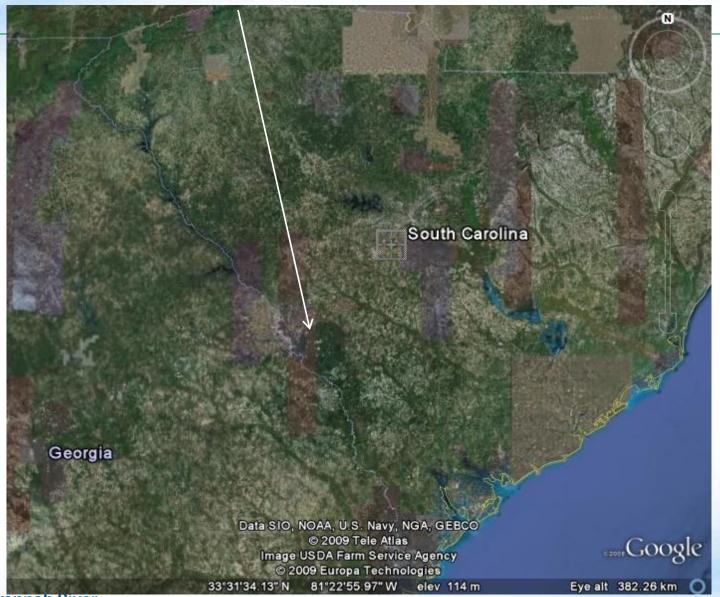


EMS Customer Satisfaction

- DOE O 450.1A/430.2B, EO 13423 Compliance
- Contractor Integration
- Policy
- Aspects
- Goals & Targets
- Coordination of External Audit
- Audit Feedback
- Website



SRS is Green!!!





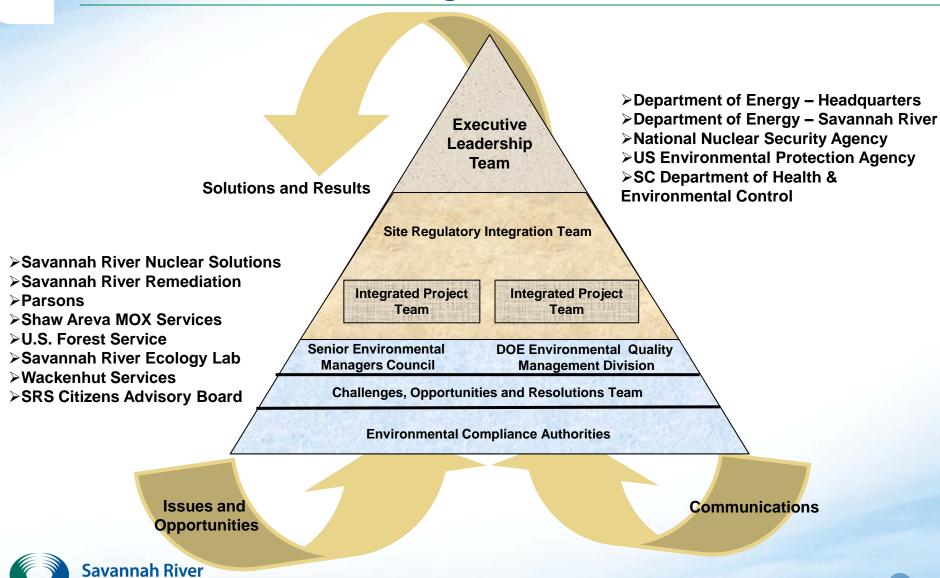
SRS Contractor Profile

Company	Scope	Organization Size
SRNS	M&O	6,340
SRR	LWO	1,800
WSI	Security	900
Shaw-Areva	MOX	1,200
Parsons	SWPF	300
SREL	Ecology	50
USFS-SR (USDA)	Forestry	70



EMS Contractor Integration

Nuclear Solutions, LLC



Integration of EMS into ISM

Developed EMS Scope

– EMS Policy

Analyzed Hazards / Identified Controls

- Identified Aspects (integrated with DOE Complex)
- Evaluated Aspects to define Goals and Targets

Perform Work

Execution of Goals and Targets (See "Perform Work" Chart)

Feedback / Improvement

- Senior Environmental Managers Council (SEMC)
- Corrective Action Plan
- EMS Communications (SRS Subcontractor Safety Forum, ISM, EFCOG)





Shaw-Areva WSI SRNS Subcontractors Area Closure Solid Waste Nuclear Materials Infrastructure SREL SF

SCOPE

Budget Process/Contract
Requirements
Define Environmental/Regulatory
Submittals
Address New Scope From Permit
or Regulation Changes
Identify Sensitive Environments

(e.g., wetlands, floodplains,

cultural sites, etc.)

MULTIPLE CONTRACT TYPES

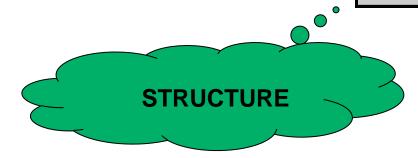
-DEAR (SRNS) -FAR (SRR)

MULTIPLE CONTRACTORS

REQUIREMENTS

NNSA Savannah River Site
Shaw AREVA
Wackenhut Services Inc.
Savannah River Nuclear Solutions,
LLC
Savannah River Remediation, LLC.

Savannah River Ecology Laboratory
Parsons
USDA Forest Service
Ameresco





ANALYZE HAZARDS/IDENTIFY CONTROLS

Environmental Permits/Permit Modifications Waste Management Controls (RCRA/RMW) Regulatory Agreements (FFA, MOUs, MOAs, STP etc.)

Engineering and Administrative Controls
Permit Requirements Added to Procedures
Required Notifications to Regulators
Waste Minimization/Pollution Prevention
Waste Shipment/Receiving Facility Reviews
(WACs)

Readiness Reviews
Identify /Incorporate Controls in Work
Authorization Documents

Conduct Activity Hazard Analysis Identify applicable laws/regulations NEPA Checklist/EEC and/or Screening Review

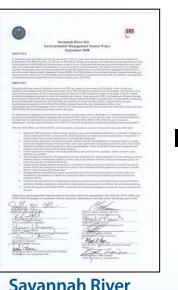
Assess proposed scope against existing permits

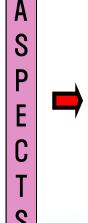
Participate in Pre-Job Walkdowns
Review ISMS Matrix & Subcontractor
Submittals

Analyze Activities for Environmental Aspects

Prepare/Review Waste Characterization Provide Environmental Expertise

EMS Goals & Targets









EMS Policy

PERFORM WORK

- Replacement of a 1950's vintage coal-fired steam plant with a new renewable energy (biomass) plant to provide steam to SRNL and A Area
- CHEMICAL MANAGEMENT CENTER
 - -Acquisition and waste cost avoidance < \$19M (FY03-07)
 - -Chemical Footprint Reduction 360M LBS, since 1995
- Energy conservation modifications made in over 150 site facilities
- Retrofitting of nearly 30,000 lighting fixtures





- Development and implementation of a Peak Alert (demand reduction) program
- Energy management control systems installed for over 30 HVAC units
- Establishing a light-duty fleet of nearly 100% ethanol fueled vehicles



• Installation of 70 time clocks to turn lighting off in high-bay areas, as well as over 2,000 occupancy sensors to turn facility lighting off when not needed



PERFORM WORK

ELECTRONICS MANAGEMENT

- Energy Star configured computers across site



- Reduces ash generation of ash by 1500 tons/yr, particulate matter by 400 tons/yr, SO2 by 1800 tons/yr, NOx by 240 tons/yr, and CO by 50 tons/yr.
- Replacement of various equipment (pumps, motors, etc) and the permanent shutdown of a steam line
- Biomass Co-Generation Facility (Ameresco)
- Establishment of new requirements to incorporate sustainable building design and high performance sustainable guilding principles
- Providing energy awareness information for employees and using a sitewide IDEAs program for employee interaction
- Centralized disposition of electronics/life-cycle management
- Installation of 150 programmable thermostats

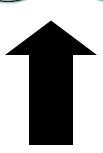


Second Biomass Plant scheduled for 2011



PERFORM WORK

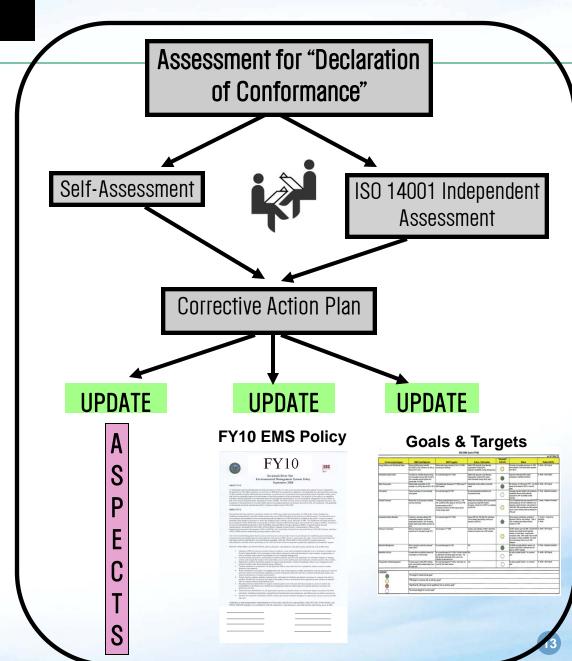
Processes, Products and Services





SENIOR ENVIRONMENTAL
MANAGERS COUNCIL





FEEDBACK/IMPROVEMENTS

DOE **Lessons Learned Program Environmental Program Oversight &** Self-Assessments **SEMC** Weekly/Monthly Progress Reports Independent Assessments (FEB) **QRTLY Eye-on-Safety Program ECA Environmental Performance FORUMS** Indicators Performance Assessments **PERIODIC** Evaluate STAR (CAs) for Recurring SR. MGMT Themes and OFIs **METRICS REVIEW** INTEGRATION OF



SITE PROGRAMS

- -Chem Mgmt
- -Fleet Mgmt
- -Power Mgmt
- -Procurement Mgmt

SRS EMS External Audit

Planning

- Self-Assessment
- Communications

Audit

- Checklist Elements (17)
- Interviews (77)
- Review of Documents (80)
- 1 minor non-conformance, 3 opportunities for improvement, 2 observations, 5 noteworthy practices
- Grading Tool: 94%

Corrective Action Plan

- STAR Finding Disposition
 - Senior Management Review of Aspects, Goals & Targets



EMS "DOE 450.1: A Declaration of Conformance"

- Audit
 - DOE O 450.1A, CRD paragraph 1.c.(1)(a)
- Audit Period 28 April to 1 May, 2009
- Audit Report
 - Certification of Auditors
- Audit Finding Disposition
 - DOE O 450.1A, CRD paragraph 1.c.(1)(b)
 - Corrective Action Plan
 - Site Tracking and Reporting (STAR) Actions
- Declaration of Conformance
 - DOE O 450.1A, CRD paragraph 1.a.



EMS Configuration Control

- EMS Policy Update
- Aspects Tailoring to SRS Needs & Programs
- Goals and Targets Update
- SEMC Routine Review of EMS Activities
- EQMD Reporting
- Website Update



EMS Impact on SRS Processes, Products and Services

- Review of Environmental Procedures
 - 3Q Manual
- Communication of Goals and Targets
 - EMS Website
 - Routine Employee Communications
- Metrics
 - Implementation Activities
- ECA Quarterly Meetings
 - Review of Execution of Aspects Goals and Targets
- Routine Review with Senior Site Managers
 - Monthly review of Aspects Goals and Targets

