

THEHANFORDSITE

Integrated Communication at Large Sites

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THE HANFORDSITE | Agenda

- Background information
- Communication challenges at large sites
- ISO 14001 requirements addressed
- Hanford Site EMS communication & collaboration
- Contractor EMS communication
- Importance of integration







Background Information

The Hanford Site

- Three primary contractors to the DOE owned Hanford Site
- 580 square miles of shrub-steppe desert in southeastern Washington State, along the Columbia River
- Produced plutonium for nuclear weapons during World War II and throughout the Cold War Era







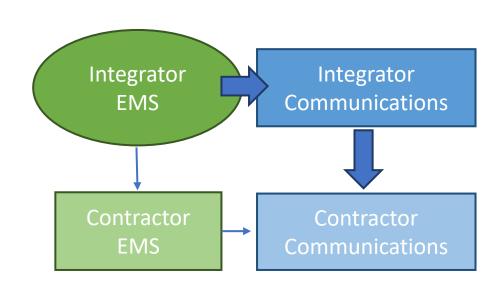


Challenges at a Large Site

- Multiple contractors & EMS scopes
 - Ex: signage & processes may vary
- Employee behavior
 - Home versus work environments

 EMS communication pathway

- Large number of employees
 - ~9,300 total employees sitewide
 - Varied communication preferences
 - Data collection for sitewide environmental reporting









Hanford Site Prime Contractors

Mission Support Alliance (MSA)

CH2M HILL Plateau Remediation Company (CH2M HILL PRC) Washington River Protection Solutions (WRPS)

- Provide integrated infrastructure and site services to support the cleanup mission
 - Roads and transportation services
 - Electrical and water services
 - Facility maintenance
 - Emergency response
 - Network and software engineering

- Facility demolition and waste site cleanup of the Central Plateau and River Corridor
- Groundwater remediation
- Waste retrieval and fuels management

- Maintain underground waste storage tanks
- Retrieve, treat, and store radioactive and hazardous tank waste
- Prepare for and provide waste feed delivery to the Waste Treatment and Immobilization Plant

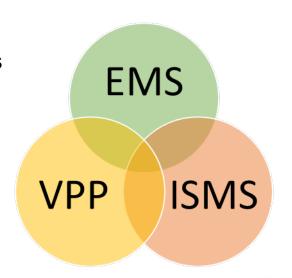






EMS Background Information

- 2019 external audit strengths
 - Environmental enthusiasm at all work levels
 - Environmental awareness and culture
 - Institutional knowledge sharing
 - Environmental Compliance Officer program
 - Integrated Safety Management System (ISMS) and Voluntary Protection Program (VPP) integration









ISO 14001:2015 Requirements

7.3 Awareness

- Environmental policy
- Significant environmental aspects and potential impacts of work
- Contribution towards effectiveness of the EMS
- Implications of not conforming with EMS requirements

7.4 Communication

- Internal communication
- External communication
- Collaboration methods

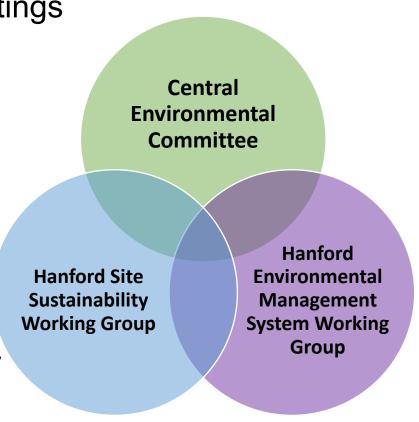






Sitewide working group meetings

- Subgroups of the Central Environmental Committee
- Lessons learned, benchmark discussions, focused topics
- Preparation for sitewide environmental reporting and environmental awareness campaigns
- Benchmarking with Pacific Northwest National Laboratory (PNNL)









- Internal sitewide EMS SharePoint
 - Meeting minutes, helpful resources, example documents

Hanford Sitewide Environmental Management Systems

The Hanford Sitewide EMS site was created to aggregate EMS information from across the Hanford site and includes the following three general categories of information: EMS Policies and Manuals; Environmental Metrics; and Environmental Reports. Additional information may be included as needs and resources are identified.

Hanford Environmental Management System Working Group (HEMSWG)

The HEMSWG was established to facilitate the implementation of ISO 14001 - based Environmental Management Systems (EMS) across the Hanford Site. The HEMSWG supports all Hanford contractors in developing, evaluating and reviewing EMS documentation and shares lessons learned and best practices to promote sitewide continual improvement.

CHPRC HPMC MSA WRPS











VNSFS

Helpful Links

Hanford Contacts
HEMSWG Meeting Minutes
HSSWG Meeting Minutes
Audit Reports

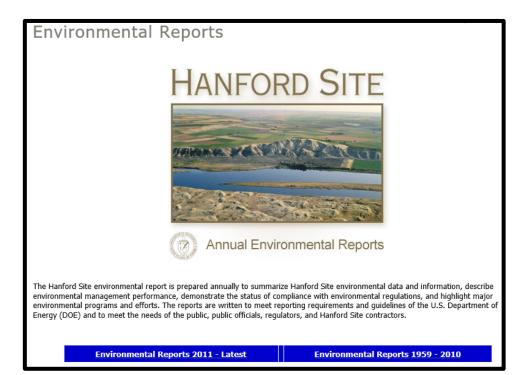






Sitewide surveys

- Gain sitewide input on topics of interest
- Created and distributed by MSA
- Collaborative reporting
 - Annual Hanford Site Environmental Report
 - Site Sustainability Plan





Electric Vehicle Charging Station Survey

MSA and fellow Hanford contractors would like to learn more about your needs as a Hanford employee and gauge the interest for personal electric vehicle charging stations. Read more...







- Outreach efforts to highlight performance
 - Local news outlets
 - EM newsletter
 - What's Happening at Hanford
 - Social media











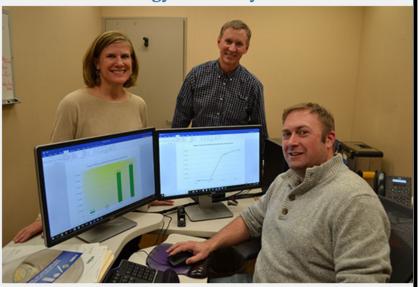
OFFICE OF ENVIRONMENTAL MANAGEMENT

Hanford Site Crew Improves Trail on Earth Day

RICHLAND, Wash. — More than 20 volunteers from Hanford site services contractor Mission Support Alliance worked with the Tapteal Greenway Association in West Richland, Wash., near the Hanford Site, to help reestablish about 1,000 feet of trail near a bustling residential development to mark Earth Day, which is celebrated April 22. The work included grading and smoothing the trail; bringing in rocks by hand to be placed along the edge of the trail; and placing a short timber crib wall to raise the level of the trail across a small gully.



Hanford Site Energy Efficiency Incentives Soar



Lana Strickling, Greg Sullivan, and Christian Seavoy with EM Richland Operations Office contractor Mission Support Alliance work with contractors across the Hanford Site to identify projects that qualify for the Bonneville Power Administration's regional energy efficiency incentive program.

RICHLAND, Wash. – Contractors at the <u>Hanford Site</u> are expected to earn more than \$1.1 million in government incentives for saving energy over the past four years, thanks to a collaborative effort led by contractor Mission Support Alliance (MSA) for the <u>EM Richland</u> Operations Office (RL).



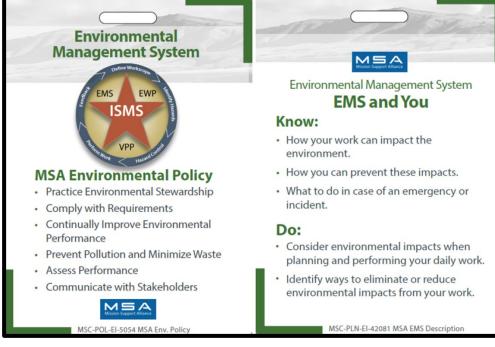




EMS Awareness



 The environmental policy and badge card provide visual reminders to employees of the commitment we demonstrate towards environmental stewardship.



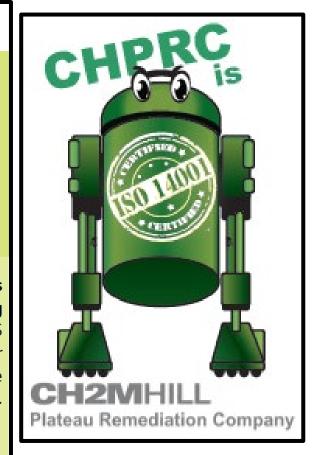






EMS Awareness

The Four Essentials of EMS All CHPRC workers must be aware of: 1. The Environmental Policy, 3. Their role in the PRC-POL-EP-5054 EMS, including the Which can be summed up as... benefits of enhanced C2P2! environmental performance **C**ompliance **C**ontinual improvement **P**ollution To protect and improve the **P**revention environment 2. The significant 4. The implications environmental aspects of not conforming (activities) and related with EMS impacts associated with requirements or their work. CHPRC's compliance obligations. Environmental damage, stop work, violations,



See the EMS website for CHPRC's aspects

fines, or other legal actions



THE HANFORDSITE | EMS Awareness



Environmental Management System

7 Core **Elements**



Context of the organization

- · Understanding the organization and its context
- Understanding the needs and expectations of interested parties
- · Determining the scope of the environmental management system
- Environmental management system

Support

- Resources
- Competence
- Awareness
- Communication
- Documented information

Operation

- Operational planning and control
- Emergency preparedness and response

Planning

- · Actions to address risks
- · Environmental objectives and planning to achieve them

Performance evaluation

- · Monitoring, measurement, analysis and evaluation
- Internal audit
- Management review

Improvement

- General
- · Nonconformity and corrective action
- · Continual Improvement

Leadership

- · Leadership and commitment
- Environmental Policy
- Organizational roles, responsibilities and authorities









THE HANFORDSITE | EMS Awareness

FY2019 MSA Environmental Aspects		
MSA Rank	Environmental Aspect	Example Work Activities
1	Emissions to Air	Driving vehicles (commuting and at work), generator and engine use, heavy equipment operation, road maintenance, delivery and pickup of Hanford mail, AC repairs, freon installation and removal
2	Pollution Prevention	Recycling, green procurement, printing double sided, skype meetings, records storage
3	Toxic and Hazardous Material Use and Storage	Use of batteries, toner, chemicals, etc, fixing BizHub copiers, printing, spraying pesticides and herbicides, use of chlorine
4	Petroleum Use	Driving vehicles (commuting and at work), generator and engine use, heavy equipment operation, road maintenance, shipping materials for offsite storage, use of generators
5	Regulated Waste Generation and Management	Disposition of batteries, toner, universal wastes, etc., lubrication and repairs of vehicles and equipment, asbestos removal
6	Energy Use	Use of electricity (lighting, computers, etc.), printing,
7	Sanitary Waste Generation and Management	Catering, printing, disposition of regular trash (paper, plastic, cardboard, aluminum cans, scrap metal, furniture, wood, etc.)
8	Water Use	Use of water (drinking, kitchens, etc.)
9	Discharge to Wastewater System	Use of restrooms
10	Potential for Wildland Fires	Driving off-road, surveillance and sampling
11	Noise, Dust, or Odor Creation	Loud equipment use, work at project sites
12	Releases to Soil	Driving off-road, emergency response, traffic management, surveillance and sampling, water line flushing, spill cleanup
13	Cultural, Historical, and Ecological Resource Disturbance	Driving off-road, maintenance and repairs, excavations, environmental monitoring and sampling, landscaping, reactor entry preparations
14	Radioactive/Mixed Waste Generation and Storage	Disposition of property and equipment, service work in radiological areas, tumbleweed removal, building and removing scaffolding and fencing, repairing RCVs
15	Physical Interaction with the Environment	Moving undisturbed soil, altering drainage patterns, removing brush, landscaping (digging and grading), pole replacement, water line excavations, trenching
16	Radioactive Material Use and Storage	Some training exercises, RAD response, disposal of property and equipment
17	Biological Waste Generation and Management	Emergency response, environmental testing, carcass removal
18	Discharge to Surface Water	Discharge to the Columbia River
	Significant Environmental Aspects	1
		⊣







EMS Communication

Company employee messages and newsletters

- Communicate changes
- Upcoming activities
- Highlights
- Performance

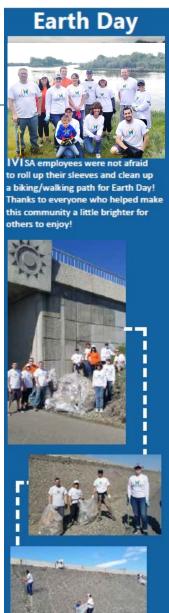


Environmental Management System Recommended For Certification!

Following last week's Environmental Management System (EMS) audit, MSA's EMS has been recommended for certification to ISO 14001:2015.

According to the audit team, "MSA employees are well educated, experienced, motivated and perform their job diligently!" EMS strengths brought to light are the corporate policy and organizational culture that supports EMS, the Refrigerant Reclamation Program (reuse of refrigerant) and the Energy Conservation Program (energy incentives and savings).

Thank you to the EMS team for their hard work and dedication and thank you to the employees and management who took the time to meet with the auditors and EMS staff during this important review! By understanding our collective role in protecting the environment, we ensure a more sustainable future. Thank you all for doing your part.









EMS Communication



Our ISO 14001-Certified Environmental Management System (EMS):

Upcoming audits: what YOU need to know

Our EMS has been ISO 14001-certified since 2012. This certification assures CHPRC's commitment to preventing pollution and waste, managing our environmental impacts and complying with our environmental requirements, all while striving to continuously improve our system.

All Hanford contractors must *conform* to the ISO standard, but CHPRC is one of only two contractors on Site who are ISO-14001 certified through third-party independent NSF certification.

CHPRC is conducting the internal EMS assessment throughout the month of May in advance of the annual external EMS audit scheduled for June 24-27.



An updated poster of the "The Four Essentials of EMS" now includes the top three significant environmental aspects.

Click here to print copy for reference.

All workers must be aware o



Issue: 05/06/2019

SUPERVISOR BRIEFINGS POINTS

We all play a role in environmental compliance by understanding the requirements and by meeting our environmental obligations every time.

CHPRC's top three environmental aspects

The work we do cleaning up the Hanford Site includes many activities (or, aspects) with the potential to effect (or impact) the environment.

The three most significant companywide environmental aspects for the 2019 Fiscal Year are:

1. Other Emissions to Air

Non-greenhouse gas emissions to air including stack emissions and accidental releases

2. Water use

Impacts associated with the use of potable and non-potable water (e.g., restroom and other facility water use)

3. Environmental Remediation

Impacts from work at various projects, such as 100K soil remediation and D4 activities

Ask the following questions:

- Do you know what your project or organization's environmental aspects are?
- How does your work impact the environment?
- What are the potential consequences of not meeting our compliance obligations?



For questions, contact Sara Austin, 376-4339.

Comments and suggestions for Thinking Target Zero can be sent via email to ^CHPRC Occupational Safety & Industrial Hygiene

Issue: 05/06/2019

CH2MHILL Plateau Remediation Company







EMS and ISMS Integration

- EMS incorporated into the integrated assessment schedule and management observation program
- Track the number of assessments that cover each ISO 14001 requirement
- Utilize in combination with the internal audit program







EMS and ISMS Integration



Question Title

Environmental Compliance

Question Start Date

Original Date: 01/23/2019 | 01/23/2019

Question Text

MSA identifies environmental compliance obligations applicable to the Environmental Management System (EMS) in MSC-RD-EI-15332, Environmental Protection Requirements, in accordance with federal, state, and local environmental regulations and permits that protect human health and the environment.

Who should you contact if you have a question about environmental compliance while at work?

Answers



Question Response

Up | Down | Remove

The correct answer is B) Environmental Compliance Officer (ECO). ECOs ensure environmental compliance obligations are met and are environmental resources for your team. Need to know your ECO? Check out the ECO POC List.

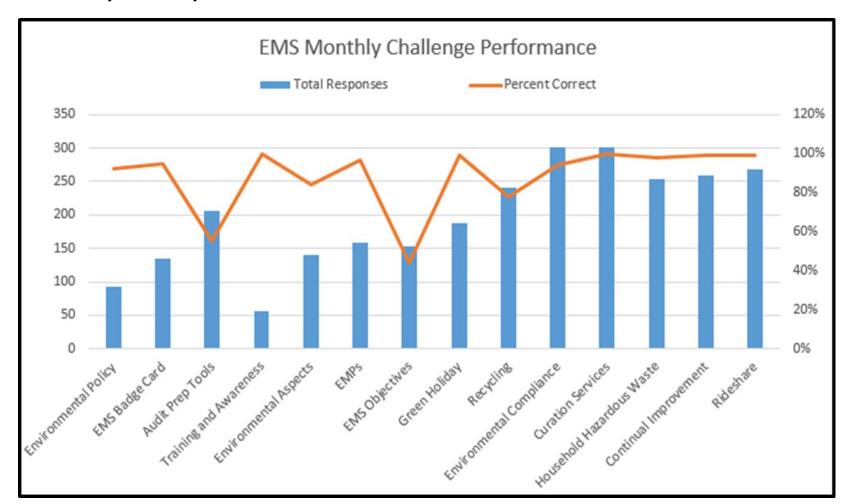






EMS and ISMS Integration

Track participation and awareness of EMS









Environmental Leadership Awards

- Fosters environmental stewardship
- Highlights stellar performance
- Allows project review in preparation for the DOE Sustainability awards











Importance of Integration

- Streamline work processes
- EMS part of daily work
- Protection of workers & the environment
- Unified EMS efforts









Questions?

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