



OFFICE OF
RIVER PROTECTION
United States Department of Energy

Tank Farms Respiratory Equipment Management Program

Hanford Advisory Board
Health, Safety & Environmental
Protection Committee

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April 11, 2018



- OSHA regulations and NIOSH certification require that a maintenance and care program be established for Respiratory Equipment Protection (RPE)
- Hanford manages an integrated site-wide program for RPE, which:
 - Establishes storage, issuance, use, maintenance, care, inspection, and recordkeeping requirements for RPE
 - Ensures that RPE is cleaned and/or sanitized as approved by the manufacturer
- All RPE users receive training that meets OSHA and ANSI requirements
 - Training includes selection, inspection, assembly, use and participation in realistic hands-on scenarios that mimic situations encountered in the field



Unitech Services Group

- Masks are sanitized using an approved process and manufacturer-recommended cleaning solutions
- Unitech contract is maintained by DOE-RL.



Hanford Fire Department

- Maintains the SCBA and escape bottles, maintains the documentation for the Hanford Site on air quality analysis for SCBA/escape cylinders, fills the SCBA cylinders



- RPE used in routine situations is inspected before each use and during cleaning.
- Since February 2018, 40 masks and regulators have been evaluated each month for presence of chemical and bacterial contamination. Results have been negative.
- Annual WRPS assessment is currently in progress; ORP respiratory protection program assessment was performed in 2017.
- Assessments found processes were compliant and followed established cleaning procedures. Improvements were identified for communication, training, and procedures.



Filter cartridges are mounted on this test jib and exposed to exhaust from the tank headspace.

- WRPS owns ~600 SCBA racks, ~3,000 Scott face masks, and ~600 Scott SCBA Cylinders.
- ~1,000 new Scott face masks were purchased in FY 2016
- 250 new Scott racks and 150 new SCBA bottles have been purchased in FY18. The new RPE will be used in field after the validation and inspection process.



- **January 2017 - March 2017:**
 - 12 Facial Rashes from face masks
 - Zero Odors from Self-Contained Breathing Apparatus (SCBA) bottles
 - Zero Debris in masks/regulators
- **January 2018 - March 2018:**
 - 10 Facial Rashes from face masks
 - 26 Odors from SCBA bottles
 - 11 Debris in masks/regulators
- **8 stop works have been initiated related to face masks and SCBAs**
 - No stop works currently in effect
- **Face mask/regulator sampling results:**
 - None of the face mask/regulator sampling results (both in 2017 and 2018) have tested positive for bacteriological or chemical contamination

- Hanford has a site-wide committee and program for approving processes for issuing, inspecting, cleaning, and storing RPE. The program also prescribes assessment requirements.
- WRPS, HPMC, and safety representatives have been meeting on facial rashes since February 2018, and will begin meeting on SCBA issues in April 2018.
- All RPE issues are tracked by WRPS.
- All sampling results have shown the absence of bacteriological or chemical contamination on the masks/regulators.



- Hanford Site Respiratory Protection Program (HSRPP)
 - DOE-0352 Program
 - HSRPP Charter
 - Clarification Interpretation & Guidance (CIG) Forms
 - Resources
 - Training
 - Points of Contacts
 - Respiratory Equipment
 - Maintenance/Care & Cleaning
 - Lessons Learned
 - And more....

Go to <http://msc.ms.rl.gov/ims/page/cfm/FSA/RPP>

Welcome! For more information, click here.	
FIELD RELATED	COMMITTEE RELATED
DOE-0352 Program 	Charter 
Clarification Interpretation & Guidance (CIG) Forms Resolution Forms 	Meeting Summaries / Minutes & Attendance Rosters 
Resources <ul style="list-style-type: none"> • Worker Protection Website • OSHA 29 CFR 1910 • NIOSH • DOE 10 CFR 851 	Training <ul style="list-style-type: none"> • Training Program Description TPD) 
Points of Contact (POC) 	Forms & Templates 
Respiratory Equipment 	Maintenance/Care & Cleaning Instructions 
Lessons Learned 	Letters from Manufacturers 
Manufacturer Advisories 	



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*“Protecting our workers,
the public, and the environment”*

The Hanford Reach
White Bluffs Overlooking the Columbia River

