Changes “Other Than Inconsequential” Require These Additional Reviews:

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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for storing, issuing and controlling the inventory of respirators and Respirator Protection Equipment (SCBA bottles, SCBA racks, PAPR’s, etc.) at the Respiratory Issue Station per DOE-0352, Hanford Site Respiratory Protection Program (HSRPP).

1.2 Scope

This procedure applies to the storage, issuance and control of respirators and equipment at the following Respiratory Issue Stations:

**Respiratory Issue Station Locations**

There are eight (8) Respiratory Issue Stations at the Tank Farm complex. Each station is manned by qualified Mask Station Issuers at the following locations:

- 2704-HV, (373-2082)
  - Closure Operations Issue Station
- 278-AW (373-0050)
  - Production Operations Issue Station
- 222-S, Room 5D corridor 8J (372-2938)
  - Laboratory Issue Station
- MO-2256 (509) 392-3454
  - Construction Satellite Issue Station.
- 2025E, (509) 373-9000
  - Effluent Treatment Facility Satellite Issuing Station
- E-38129 Mobil Issuing Station
  - Closed Loop (Bottles only)
- E-203093 Mobil Issuing Station
  - Closed Loop (Bottles only)
- MO-0193 AY-2 Change Trailer
  - Closed Loop (Bottles only).
2.0 INFORMATION

2.1 Terms and Definitions

Voluntary Use /Upgrade

The Safety & Health professional is the primary individual responsible to evaluate voluntary use and/or upgrade of respiratory protection. The Respiratory Protection Form (RPF) will identify respiratory protection that may be used when voluntary use or an upgrade is requested.

Respiratory Protection Form (RPF) A-6005-593

When the IH or Radiological Work Planner/Engineer specify the required respiratory protection, type of respiratory equipment (i.e., SCBA, PAPR, APR), type of canister/cartridge and change out schedule to be used. The RPF document will be provided to the respiratory issue station by the FWS or a management designated person.

Work - Control Documents

- Job hazard Analysis (JHA), Standing Job Hazard Analysis (SJHA), and Abnormal Operating Procedure (AOP), Standard Operating Procedures (SOP). When these documents require the use of respiratory protection a Respiratory Protection Form may be completed or refer the user to a secondary document that will have a RPF attached, such as a TVIS

- RWP’s and TVIS are a secondary document and can only be used when directed by a Work Control Document or an RPF.

RPE – Respiratory Protective Equipment
2.2 General Information

Management Responsibilities (Issue Station)

- Ensures issuers have completed Respiratory Issuer Training course
- Ensures issuers are identified on the HSWET (Hanford Site Worker Eligibility Tool) eligible worker List
- Enforce proper care, use and return of respiratory equipment
- Ensures positive control of respiratory equipment is maintained at Issue Station.

Respiratory Qualifications / Training Retriever Responsibilities

- Retrieve respiratory qualification / training electronic data
  OR
  Confirm wearer has current mask fit card / proper training reports
- Ensure respiratory qualification / training data is transmitted to issuer.

Mask Station Issuer Responsibilities

- Verify that the wearer is authorized to use requested respiratory equipment as specified for the job/task on the work control document
- Verify respiratory training, mask fit, and medical clearance for respiratory equipment
- Ensure user meets requirements for respiratory use. (clean shaven, weight loss/gain, dental work or other condition(s) that could affect use).
- Maintain positive control of respiratory equipment at the Respiratory Issue Station
- When station is not manned, control access by keeping doors and gate locked
- Verify correct respiratory equipment configuration.
- Track respiratory equipment issued and returned
- Store respirators and associated respiratory protection equipment in the facility/project respiratory controlled distribution area in a manner that will protect the integrity of the equipment against physical and chemical agents such as sunlight, heat, cold, extreme cold, excessive moisture, mice droppings, dust or damaging chemicals
- Perform monthly accountability of designated respiratory equipment
- Assign unique identifiers to new equipment and add to the appropriate respiratory inventory.
2.2 General Information (Cont.)

Mask Station Issuer Responsibilities (Cont.)

- Prior to issuing respiratory equipment, verify that the wearer is authorized to use requested respiratory equipment specified for the job/task on the work control document and has a current mask fit, respiratory training and physical
- Issue RPE per the RPF
- Confirm damaged respiratory equipment is tagged, logged and sent to the Hanford Fire Department for repair
- Maintain and update inventory logs of repaired, calibrated or removed from service respiratory equipment using RETS or site form A-6006-489, Bulk Issue/Equipment Repair/Calibration Log
- Maintain appropriate levels of stock in distribution area, order supplies when required
- Track, log and notify Respiratory Station Manager and RPPA of damaged, failed equipment A Respiratory Issues and Concerns form shall be completed
- Perform housekeeping duties of mask station
- Provide turn over to oncoming issuer as needed
- Assist, if required, on the completion of Respiratory Issues and Concerns form (A-6006-205) when requested by respiratory user.

Management/Field Work Supervisor Responsibilities

- Ensure respiratory issue station receives Respiratory Protection Form (RPF)
- Enforce proper care, use and return of respiratory equipment
- Communicate to employees the hazard that requires the use of the respiratory equipment and any job specific limitations for the assigned tasks. Issues with respiratory should be resolved in the pre-job
2.2 General Information (Cont.)

Respiratory User Responsibilities

- Meet requirements for respiratory use. (clean shaven, weight loss/gain, dental work or other condition(s) that could affect use)
- Provide documentation for training, mask fit, and medical clearance for respiratory equipment, if required
- Know the hazard that require the use of the respiratory equipment and any job specific limitations for the assigned tasks
- Sign or scan badge for respiratory equipment received indicating compliance with respiratory qualifications and acceptance of the correct equipment per RPF and work control document
- Maintain positive control of respiratory equipment and return equipment before the end of the shift unless notification has been made to the issue station for overtime use
- Notify management/FWS and issue station of failed equipment and complete a Respiratory Issues and Concerns Form.

Basic Requirements and Training for Respirator User:

- Physical
- Mask Fit (Unless restricted to hood only)
- Received training on respiratory equipment
- Respiratory Knowledge Initial

OR

Respiratory Knowledge Based Refresher.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 The hazards associated with the performance of this procedure have been determined to be addressed by the GHA.
4.0 PREREQUISITES

4.1 Special Tools, Equipment and Supplies

The following supplies may be needed to perform this procedure:
- Hearing protection
- Safety glasses
- Safety shoes
- Leather or equivalent safety gloves
- Other tools, equipment and supplies as identified by Shift Manager/OE/FWS.

4.2 Performance Documents

The following Procedures may be needed to perform this procedure:
- TO-020-024, Clean E-Z Flow Regulators for SCBA and Supplied-Air Respirators
- DOE-0352, Hanford Site Respiratory Protection Program
- DOE-0352-008 Cleaning and In Service Testing of SCOTT E-Z Flow Regulator
- TFC-ESHQ-IH-STD-07, Respiratory Protection
- TFC-ESHQ-S-STD-24, Bloodborne Pathogen Exposure Control Standard
- TFC-ESHQ-S-STD-25, Storing, Using, Handling, and Transporting Compressed and Liquefied Gases
- A-6004-341-Air Systems Breathing Air Bottle Cart Checklist Form
- A-6005-593-Respiratory Protection Form
- A-6006-205-Respiratory Protection Issue and Concerns Form
- A-6006-489-Bulk Issue/ Equipment Repair / Calibration Log
- A-6006-490-Powered Air Purifying Respirator Sign-In / Sign-Out Log
- A-6006-491-Respiratory Equipment Sign-In/ Sign-Out Log
- A-6006-492-Breathing Air Cart Sign-In / Sign-Out Log
4.3 Field Preparation

4.3.1 **CONFIRM** the following training has been completed and is current prior to assuming an assignment as a Respiratory Station Issuer:

- Respiratory Issuer Training (Operations: course # 357845, 222-S Labs: #172154, Building Trades: course # 357846)
- Knowledge-Base Respiratory Training (course # 020066)
- Respiratory Protection Issuer Training (Hammer: course #020104)
- Respiratory equipment training specific for the issue station you’re assigned
- TOC Blood borne Pathogen (course #351526)
- Demonstrate the ability to perform the cleaning and inspection of respiratory regulators per procedure TO-020-024 (required only at stations that clean)
- Ability to locate and use related administrative procedures.
5.0 PROCEDURE

5.1 Retrieve Respiratory Qualifications

NOTE - Use of a mask fit card will only be required when access to the RETS system icon is down or not functioning properly.

5.1.1 IF access to RETS system icon is not available because system link is down or not functioning properly and user respiratory training and mask fit needs verification, PERFORM the following:

5.1.1.1 CONFIRM user has current mask fit card.

5.1.1.2 CONFIRM user has proper training reports.

5.1.1.3 DIRECT user to submit mask fit card and training reports to issuer.

5.1.2 IF access to RETS system icon access link is available, RETRIEVE Respiratory Qualification /Training as follows:

5.1.2.1 DOUBLE CLICK the RETS icon.

NOTE - If the user does not have current qualifications, medical, training and mask fit information line will appear RED and an “X” will appear beside HID.

5.1.2.2 IF using HID, ENTER HID of the worker

OR

IF using barcode, have user SCAN badge barcode.
5.2 Verify Respiratory Qualifications

NOTE - Copies of mask fit cards will be accepted as long as all information is legible and picture of user is clear.

- Use of a mask fit card will only be required when access to the RETS system icon is down or not functioning properly or a red X indicates missing information.

- Expiration dates are good until midnight of the day of expiration. EXAMPLE: 5/31/2007 expires at 11:59 pm (2359hrs) on that date.

- If an employee receives a mask fit clean-shaven, and later grows a mustache, issuers will not issue respirators for use, because additional facial hair voids the mask fit approval. The user must return to the Hammer Mask Fit Station for evaluation or a new mask fit. A new picture will be taken showing approved facial hair.

- If an employee receives a mask fit with an approved mustache, or facial hair that is not in the sealing surface and later shaves it, becoming clean-shaven, the user will receive a respirator. Absence of facial hair doesn’t affect fit.

5.2.1 IF using mask fit card to complete verification, PERFORM the following:

5.2.1.1 CHECK the following on the user mask fit card to confirm it is not expired:

- Mask fit date (not required for hood use)
- Appearance of user to picture
- Physical date
- Approved respirators.

5.2.1.2 CONFIRM the Respirator user is as follows:

- Qualified for respiratory equipment requested
- Currently qualified (not expired).
5.2 Verify Respiratory Qualifications (Cont.)

NOTE - Specific training requirements for different types of respiratory equipment is provided in Table 1.

5.2.2 IF using printed data to complete verification, PERFORM the following:

NOTE - The user can but does not need to provide a mask fit card, the RETS icon can be used to verify the users physical date, specific respiratory equipment qualification, respiratory training, mask fit, mask type, size and mask fit picture.

5.2.2.1 CONFIRM the word CLEARED appears in the medical section and physical date is current

OR

IF the word CLEARED is not present, STOP AND REQUEST the user to resolve all discrepancies through their manager.

5.2.2.2 CONFIRM qualification for specific respiratory equipment requested and that training is current (not expired).

5.2.2.3 CHECK the picture against the appearance of the user, with special attention to the following:

- Any additional facial hair.
- Dental work that could affect fit, i.e., braces, dentures, extractions etc.
- Facial piercing in sealing area
- Obvious weight gain or loss.

NOTE - When the above has been verified, the employee is cleared and may pick up respiratory protection in accordance with Section 5.3.
5.3 Issuing Respirators

5.3.1 **ENSURE** FWS / DESIGNEE has provided a Respiratory Protection Form (RPF) to the Respiratory Issue Station (Site Form A-6005-593).

NOTE - Steps 5.3.2 and 5.3.3 are performed concurrently.

5.3.2 **IF** any part of the RPF is not understood by the issuer prior to issuance, **CONTACT** the Industrial Hygienist or Rad engineer/Planner that completed and signed the RPF for assistance or clarification.

5.3.3 **REVIEW** Sections 1 thru 11 of the RPF for completion of the following:

- Work control Document # is listed
- RFP # (if required)
- Current Revision
- Expiration date is not exceeded
- Work location
- Task description (s) and special instructions
- Hazard type
- Equipment selected for issue
- Required cartridges
- Cartridge change-out schedule
- Special instructions
- Signed by both Radiological Engineer/Planner and Industrial Hygienist
- Prescribed or identified for voluntary use respiratory equipment (SCBA, PAPR, APR, Hood/full face)

NOTE - All chemical canister/cartridges require a change out schedule including canister/cartridges that have the end of service life indicator (ESLI)

- Canister/cartridges: Type of canister/cartridge and change out schedule for chemical cartridges
- Equipment limitations or restrictions (i.e., supplied air hose lengths, Carri-Air 5 minute required/not required).

5.3.4 **ISSUE** only what has been prescribed or identified for voluntary use per the RPF.
### Special Instruction

When either outside or inside ambient temperature is at or below 32°, tight fitting face pieces must be equipped with a nose cup in accordance with manufacturer’s instructions.

#### 5.3.5 WHEN the following have been verified, ISSUE the respiratory equipment in accordance with Steps 5.3.6 through 5.3.17 and the guidance provided in each attachment listed in the Table below:

- Respiratory Protection Form
- User respiratory qualifications.

<table>
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5.3 Issuing Respirators (Cont.)

NOTE - Equipment may be scanned in using bar codes or manually entered. There are 5 Sign-in/Sign-out logs:
- Respiratory Equipment Sign-In/Sign-Out Log (Site Form A-6006-491),
- Powered Air Purifying Respirator Sign-In/Sign-Out Log (Site Form A-6006-490),
- Bulk Issue / Equipment Repair / Calibration Log (Site Form A-6006-489),
- Breathing Air Cart Sign-In/Sign-Out Log (Site Form A-6006-492).
- Bulk SCBA/SKS-PAK Bottle Log (Site Form A-6006-892)

5.3.6 IF issuing to individual users of Respiratory Equipment, **PERFORM** one of the following:

NOTE - You may refer to the user’s manual as needed.

5.3.6.1 **ISSUE** RPE using RETS system.

**OR**

5.3.6.2 **COMPLETE** Respiratory Equipment Sign-In/Sign-Out Log as follows:

a. **PRINT** users name.

b. **ENTER** the following in correct column:
   - Work control document number located on the RPF. If a TVIS is identified on the RPF then it will also be recorded
   - Location of use, (i.e., farm or building number).

c. **ENTER** the following in correct columns of log sheet as applicable:
   - Equipment ID (i.e., SCBA, Ska-Pak, Air cylinder)
   - Type of canister/cartridge
   - Mask manufacturer, style and size
   - Voice communicator.

d. **ENTER** Date OUT and issuer’s initials.

e. **REQUEST** user sign Respiratory Equipment Sign-In/Sign-Out Log for all equipment received and that all equipment received is correct per their RPF
5.3 Issuing Respirators (Cont.)

5.3.7 WHEN equipment is returned to the issue station, PERFORM one of the following:

NOTE - You may refer to the user’s manual as needed.

5.3.7.1 RETURN RPE using RETS.

OR

5.3.7.2 ENTER Date IN and issuer initials in Respiratory Equipment Sign-In/Sign-Out Log.

5.3.8 INSPECT all returned respiratory equipment for damage prior to cleaning and reuse.

5.3.9 REVIEW Respiratory Equipment Sign-In/Sign-Out Log or Scan Log before the end of every shift AND

NOTIFY the user and/or their manager of any equipment that is not returned.

5.3.9.1 INSTRUCT the user and/or their manager to return issued equipment that can’t be returned before the end of the shift into the Production Ops. Shift office.

a. IF user is unable to return due to IH hold, or radiological controls, MAKE NOTIFICATION to issuing station.
5.3 Issuing Respirators (Cont.)

5.3.10 IF issuing PAPR respirators, **PERFORM** one of the following:

NOTE - You may refer to the user’s manual as needed.

5.3.10.1 **ISSUE** PAPR respirators using RETS system.

OR

5.3.10.2 **COMPLETE** Powered Air Purifying Respirator Sign-In/Sign-Out Log as follows:

a. **PRINT** users name.

b. **ENTER** the following in correct column:
   - Work control document number located on the RPF. If a TVIS is identified on the RPF then it will also be recorded
   - Location of use, (i.e., farm or building number).

c. **ENTER** the following in correct columns:
   - Equipment ID (Blower unit, battery pack)
   - Number of cartridges
   - Cartridge type
   - Hood or for full face use, the mask manufacturer, style and size.

d. **ENTER** Date out **AND**
   **REQUEST** Issuer initial.

e. **REQUEST** user sign Powered Air Purifying Respirator Sign-In/Sign-Out Log for all equipment received.
5.3 Issuing Respirators (Cont.)

NOTE - Equipment may be kept for a maximum of 2 consecutive shifts on the same work control document with notification from the user to the respiratory issuing station.

5.3.11 REVIEW Powered Air Purifying Respirator Sign-In/Sign-Out or scan Log before the end of every shift AND

NOTIFY the user and/or their manager of any equipment that is not returned.

5.3.11.1 FLAG Powered Air Purifying Respirator Sign-In/Sign-Out Log (Site Form A-6006-490) or the scan log for equipment that has been requested to be kept for use into the next shift.

5.3.11.2 RECORD a brief explanation next to a respiratory users name in Powered Air Purifying Respirator Sign-In/Sign-Out Log (Site Form A-6006-490) or scan log for equipment that has been requested to be kept for use into the next shift.

Bulk Transfer of Air Cylinder Bottles

NOTE - You may refer to the user’s manual as needed.

5.3.12 BULK TRANSFER bottles using RETS,

OR

IF using SCBA/SKA-PAK Bottle Log, PROCEED as follows:

5.3.12.1 COMPLETE information at bottom of log.

5.3.12.2 ENTER bottle ID number in appropriate column.

5.3.12.3 WHEN the return of all bottles has been verified, INITIAL AND DATE Bulk SCBA/SKA-PAK Bottle Log.

5.3.12.4 CONFIRM that entries are legible and correct on Bulk SCBA/SKA-PAK Bottle Log.

5.3.12.5 PLACE completed forms into logbook.
5.3 Issuing Respirators (Cont.)

NOTE - Only Qualified Issuers may check out bulk quantities of respiratory equipment that will be issued in the field for use (e.g., masks, SCBA units, PAPRs, etc.) The Mask Station Issuer receiving the bulk respiratory equipment will be required to sign and date for receipt of this equipment and complete log sheets associated with respiratory issuance. The signature on the bulk issuance sheet indicates responsibility for the bulk equipment.

Bulk Transferring Respiratory Equipment

5.3.13 IF bulk transferring Respiratory Equipment, COMPLETE Bulk Issue / Equipment Repair / Calibration Log as follows:

NOTE - You may refer to the user’s manual as needed.

5.3.14 BULK TRANSFER respiratory equipment using RETS,

OR

IF using Bulk Issue / Equipment Repair / Calibration Log, PROCEED as follows:

5.3.14.1 COMPLETE information required at bottom of log.

5.3.14.2 ENTER property ID number in appropriate column.

Bulk Equipment Issuer

5.3.14.3 FILL out Respiratory Equipment Sign-In/Sign-Out Log or scan log per Step 5.3.6 AND

RETURN Respiratory Equipment Sign-In/Sign-Out Log at the end of shift, completed, with property ID numbers and a user signature.

AND/OR

USE RETS to issue RPE.

Respiratory Station Issuer

5.3.14.4 CONFIRM that entries are legible and correct on Respiratory Equipment Sign-In/Sign-Out Log or scan log returned with bulk equipment.

5.3.14.5 CONFIRM requesting Bulk Issuer signs Bulk Issue / Equipment Repair / Calibration Log.
5.3 Issuing Respirators (Cont.)

NOTE - Equipment may be kept for a maximum of 2 consecutive shifts on the same work control document with notification to the Respiratory Issuing Station.

- Respiratory equipment that is loaned to another issue station, will be recorded on a Bulk Issue / Equipment Repair / Calibration Log for tracking purposes and will not be required to be returned after two consecutive shifts or return a completed Respiratory Equipment Sign-In/Sign-Out Log or bulk transferred using RETS.

5.3.14.6 **REVIEW** the log before the end of every shift **AND**

**NOTIFY** the user and/or their manager of any equipment that is not returned.

5.3.14.7 **WHEN** the return of all bulk issued respiratory equipment has been verified, **INITIAL AND DATE** Bulk/Repair/calibration log.

5.3.14.8 **ATTACH** Bulk Issue / Equipment Repair / Calibration Log prior to placing in the completed log book.

5.3.14.9 **INSPECT** all returned respiratory equipment for damage prior to cleaning and reuse.
5.3 Issuing Respirators (Cont.)

5.3.15 COMPLETE Bottle Cart Breathing Air Cart Sign-In/Sign-Out Log for the specific cart located in the Bottle Cart binder as follows:

NOTE - Training verification for bottle cart is not required for issuance. The POC/FWS will verify and assign qualified and trained personnel to operate bottle cart.
- You may refer to the RETS user’s manual as needed.

5.3.15.1 ISSUE bottle cart per RETS.

5.3.15.2 PRINT POC/FWS name on the corresponding bottle cart log-in log-out for the cart being issued to the field.

5.3.15.3 ENTER the following in the correct column:
- Work Control document number and work location,
- Number of airline hose requested,
- Length of airline hose.
5.3 Issuing Respirators (Cont.)

NOTE - Bottle Carts may be kept longer than the maximum of 2 consecutive shifts on the same work control document because of their use and set up in the field with notification to the Respiratory Issuing Station.

- Respiratory equipment that is loaned to another issue station is recorded on a Bulk Issue / Equipment Repair / Calibration Log for tracking purposes and will not be required to be returned after two consecutive shifts.

- Issue station will be notified when the Bottle Cart location changes so it can be documented on Breathing Air Cart Sign-In/Sign-Out Log.

5.3.15.4 ENTER date of issuer’s initials.

5.3.15.5 REQUEST POC/FWS to sign Breathing Air Cart Sign-In/Sign-Out Log.

5.3.15.6 ENSURE a current copy of the Air Systems Breathing Air Bottle Cart Checklist (Site Form A-6004-341) is available on cart.

5.3.15.7 ENTER date in and issuer initials on the corresponding Breathing Air Cart Sign-In/Sign-Out Log when equipment is returned to the issue station.

5.3.16 INSPECT all returned equipment for damage prior to cleaning and reuse.
5.3 Issuing Respirators (Cont.)

5.3.17 IF issuing Tank Farm Voice Communicators, PERFORM the following:

5.3.17.1 IF using RETS, RECORD communicators in “Comments:”

5.3.17.2 RECORD voice communicators property ID number on Respiratory Equipment Sign In/Sign Out Log.

NOTE - Batteries for communicators are not left in the units.
- Only non-rechargeable, 9-volt batteries are to be used with the communicators.

5.3.17.3 CHECK communicator batteries AND

REPLACE as needed or every two times used.

5.3.17.4 ENSURE discarded used batteries are placed in the battery recycle receptacle.

5.3.17.5 INSPECT the units prior to issuing.
5.4 SCBA Cylinders Issuing and Tracking at Closed Loop Issuing Stations

NOTE - Closed Loop locations must stay in compliance with DOE-0352 and TFC-ESHQ-IH-STD-07.
- This Section must be performed by a qualified mask issuer.

5.4.1 USE RETS to issue and track SCBA cylinders to individual users,

OR

IF RETS is unavailable, USE the Respiratory Equipment Sign In/Sign Out Log A-6006-491

5.5 SCBA Cylinders Tracking at Temporary Remote Locations

NOTE - RETS may be utilized at the locations listed in the Scope (Section 1.2) of this procedure.
- The following steps may be performed by a current SCBA trained NCO.
- Construction forces may utilize current SCBA trained personnel.

5.5.1 TRACK SCBA cylinders utilizing the SCBA Bottle Tracking Log A-6007-419 to individual users.

5.5.2 AFTER completing the SCBA Bottle Tracking Log (A-6007-419), RETURN log to the issuing station from which the bottles were issued from.
5.6 Requirements for Packaging and Cleaning

NOTE - Scott respiratory equipment will be cleaned per TO-020-024, most current revision.

- Respiratory equipment that requires repair/calibration is addressed in Section 5.7.

- For Asbestos work permit jobs that require the use of respiratory equipment, used equipment prior to being returned to the issue station may be required to meet one of the following packaging requirements. All packaging will be performed in the field prior to the return of equipment to issuance station.

  - Negative Exposure Assessment (NEA) Used respirators will be wet wiped and considered non-asbestos contaminated.

  - Respirators not used under a NEA shall be wet wiped and held pending air sample results. If sample results are below PEL, then the respirators may be released as non-asbestos contaminated.

  - Respirators whose sample results are above the PEL must be wet wiped and placed in a water soluble bag with an asbestos label and accompanied with a signed/dated note from the project supervisor stating they were wet wiped.

  - Bio-Hazard (vomit, blood) contaminated face pieces are not returned to the issue station. They are packaged in the field in Bio-Hazard bag if available and disposed of in approved containers.

5.6.1 PACKAGE used face pieces in cardboard boxes.

5.6.2 STAGE packaged face pieces for pickup by lauder provider for cleaning.

5.6.3 RECORD special instructions for the handling or cleaning of respirators on tape attached to the top of the box.

  5.6.3.1 CONTACT IH for Bio-Hazard disposal guidance.

  5.6.3.2 CONTACT the mask station RPPA for questions on packaging or acceptance for other contaminates.

5.6.4 WHEN clean face pieces are returned, CONFIRM a Return Sheet is provided to the Respiratory Issue Station.

5.6.5 PLACE returned clean boxed face pieces in designated storage area.
5.7 **General Respiratory Equipment Inspection/Repair**

**NOTE** - Respiratory equipment found in need of calibration during inventory checks does not require a Respiratory Protection Issue and Concerns Form to be completed.

5.7.1 **TRACK AND RECORD** the calibration dates for equipment in the equipment status book and/or using RETS.

5.7.2 **ENTER** other ID numbers (serial number, PIN, cal date, or any general information) into the book and/or RETS.

**NOTE** - Bulk Issue / Equipment Repair / Calibration Log is kept in the equipment status book. HFD service department makes all repairs and calibrations on SCOTT Equipment.

5.7.3 **COMPLETE** Bulk Issue / Equipment Repair / Calibration Log for equipment with a brief description of the repair/calibration needed to be sent in or returned from the HFD and/or use RETS.

5.7.4 **TAG AND/OR LOG** all SCOTT supplied air equipment that is damaged or in need of repair/calibration with brief description of the repair/calibration needed on Bulk Issue / Equipment Repair / Calibration Log and/or use RETS.

5.7.4.1 **ENSURE** the tag states the following:
- Issue station,
- Equipment identification number,
- Deficiency (for example, 278-AW Mask Station SCBA #16 missing O-ring).

5.7.4.2 **AFFIX** tag to the respiratory equipment identifying the problem (Example: harness strap needs replaced).

5.7.4.3 **SEND** face pieces in need of repair to launder provider.
5.7 General Respiratory Equipment Inspection/Repair (Cont.)

NOTE - PAPRs that are used or expired are returned to IH techs.
- Bottle carts due for calibration or repair will be recorded on the Breathing Air Cart Sign-In/Sign-Out Log and/or RETS.

5.7.4.4 SEND Bottle carts due for calibration or repair to Fire Systems Maintenance.

5.7.4.5 WHEN repaired equipment is returned, HIGHLIGHT the entry on Bulk Issue / Equipment Repair / Calibration Log to indicate its return and/or use RETS.

5.7.4.6 IF equipment was sent in for calibration, NOTE new calibration date on sheet and/or in RETS.

5.7.4.7 IF equipment calibration dates change or equipment is removed from source, UPDATE respiratory equipment status book and/or RETS.

5.7.4.8 WHEN all equipment on sheet is returned, MOVE the log to completed section of the Respiratory Equipment Status book.
5.8 Respiratory Equipment Infield Failure Actions

5.8.1 RECEIVE failed equipment at issuing mask station.

NOTE - Issuers may assist in completing Issue and Concerns form when requested from user. The SCBA component identification poster is located at the mask issue stations for assistance in filling out the Issues and Concerns form.

5.8.2 ENSURE a Respiratory Protection Issue and Concerns form is completed by the user and reviewed by the issuer.

5.8.3 ENSURE failed equipment is segregated and identified as out of service.

5.8.4 DELIVER equipment to HFD for evaluation,

5.8.5 FORWARD copies to RPPA.
5.9 Ordering Equipment and Supplies

NOTE - Respiratory equipment and supplies are ordered as needed with lead Operator.
- Respiratory station inventory is maintained through rotation of supplies from supply building to the issue station.

5.9.1 WHEN inventory of supplies runs low, NOTIFY supply operator.

5.9.2 ASSIGN unique identifiers to new respiratory equipment AND RECORD new equipment in appropriate respiratory inventory logs and/or input into RETS system.
5.10 Perform Daily/Monthly Equipment Accountability

NOTE - A system of accountability for respiratory equipment is to be performed and documented monthly. Each type (i.e., SCBA, Ska-Paks) of respiratory equipment will have its own inventory check list with the equipment identification numbers listed or use RETS Inventory Reports.

- Respiratory Issue Station management may request additional equipment inventory checks as needed.

5.10.1 OBTAIN monthly inventory checklists for equipment from the Respiratory Monthly Inventory book AND

PERFORM the following:

5.10.1.1 HIGHLIGHT OR MARK OFF equipment ID numbers of all equipment that is located on checklist.

5.10.1.2 RECORD equipment ID numbers for all equipment that cannot be located in the comment section.

5.10.1.3 SIGN AND DATE Inventory Check List (s) for Respiratory Equipment AND

PLACE back in Monthly Inventory book.

OR

USING RETS, PROVIDE management with a monthly inventory report when requested.
5.11 Maintain Bottle Inventory

5.11.1 **LOG** air cylinders out on Bulk Issue / Equipment Repair / Calibration Log and/or RETS when the following activities occur:
- When sent for inspection
- When sent for hydro
- When sent for repair.

**NOTE** - A maximum of 20 full air cylinders may be transported at one time. Additional DOT requirements will be required for transporting more than 20 full air cylinders.

5.11.2 **ENSURE** compressed air bottles are transported to and from the Hanford Fire Department in a designated vehicle that is properly equipped for bottle transport.

5.11.3 **CONFIRM** air cylinders due for Hydro are empty.

5.11.4 **IF** air cylinders due for Hydro are not empty, **PERFORM** the following:

5.11.4.1 **ISOLATE** area, using appropriate barriers, where cylinders will be vented.

5.11.4.2 **DON** appropriate PPE for hands, feet, eyes and ears,

5.11.4.3 **VENT** cylinders slowly until empty.

5.11.5 **ENSURE** air cylinders are transported to the HFD at the following frequency:
- 60 min bottles every 5 yrs (carbon, fiberglass, aluminum)
- 30 min bottles every 5 yrs (carbon, fiberglass, aluminum)
- 5 min bottles every 3 yrs (fiberglass, aluminum).

5.11.6 **RECORD** air cylinder(s) ID# on A-6006-489 Bulk Issue / Equipment Repair / Calibration Log, sent for inspection or hydro testing and/or RETS.
5.11 Maintain Bottle Inventory (Cont.)

5.11.7 WHEN air cylinder hydro or refill is complete AND WHEN pickup from HFD is requested, PERFORM the following:

NOTE - A maximum of 20 full air cylinders may be transported at one time. Additional DOT requirements will be required for transporting more than 20 full air cylinders.

5.11.7.1 ENSURE cylinder(s) are picked up from HFD.

5.11.7.2 LOG cylinder(s).

5.11.7.3 CHECK cylinders against Bulk Issue / Equipment Repair / Calibration Log and/or RETS.

5.11.7.4 RECORD new hydro date with corresponding mask station ID number in the Tracking and Calibration book and/or RETS.

5.11.7.5 PLACE completed Bulk Issue / Equipment Repair / Calibration Log in Tracking and Calibration book.
5.12 Housekeeping

5.12.1 PERFORM the following to maintain a clean and orderly issue station.

5.12.1.1 ENSURE exits are clear and free of tripping hazards.

5.12.1.2 ENSURE respiratory equipment is stored in designated locations.

5.12.1.3 WIPE the following Mask Station areas regularly with disinfectant wipes:
   - Counters
   - Phones
   - Computer key boards
   - Drying Chamber.

5.12.1.4 ENSURE the garbage is emptied regularly.

5.12.1.5 ENSURE the desk is orderly to provide an environment conducive to good recordkeeping.

5.12.1.6 SWEEP and mop or vacuum floors in the respiratory cleaning areas and drying rooms daily.

5.12.1.7 REPLACE Dryer filter as needed.
5.13 Records

5.13.1 **PERFORM** the following for records identified within this procedure.

5.13.1.1 **RECORD** the number of times the record was generated in applicable column

**OR**

5.13.1.2 **SUBMIT** the package to Central Shift Office (274AW).

### Records Submittal Checklist

<table>
<thead>
<tr>
<th>Logs</th>
<th>Number of times completed</th>
<th>N/A (✓)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory Equipment Sign-In/Sign-Out Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powered Air Purifying Respirator Sign-In/Sign-Out Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Issue / Equipment Repair / Calibration Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breathing Air Cart Sign-In/Sign-Out Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk SCBA/SKA-PAK Bottle Issue Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCBA Bottle Tracking Log</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SEND** the completed records with Records Submittal Checklist attached to the Central Shift Office (274AW) for records retention.

________________________ / ______________________ / ______________________
Signature                  Print (First and Last)       Date

The record custodian identified in the Company Level Record Retention and Disposition Schedules (RIDS), is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
Table 1 - Respiratory Training Requirements

NOTE - All respiratory equipment that a person is qualified on will be listed and identified on their RETS report. No respiratory equipment can be issued to an individual unless it is identified on their report.

- X indicates all the requirements that must be completed by the user prior to receiving that type of respiratory equipment from an issuing station. Confirm all dates are current (physical, mask fit, respiratory qual).

<table>
<thead>
<tr>
<th>User Required</th>
<th>Physical</th>
<th>Mask Fit</th>
<th>Respiratory Knowledge Training</th>
<th>Spec APR</th>
<th>SCBA</th>
<th>Ska-Pak Airline</th>
<th>Supplied Air Entry/Exit Systems</th>
<th>PAPR Hood* Specific</th>
<th>PAPR Full Face* Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR W/Cartridges</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCBA</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ska-Pak Airline /EZ-airline</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<td></td>
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<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAPR Hood* Specific</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAPR Full Face* Specific</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

* The individuals training report will list the specific qualification for each piece of respiratory equipment i.e. MSA OptimAir TL Full face/Hood, or Breath Easy PAPR Hood. The generic term Hood or Full face PAPR on the training report is no longer an accepted user training verification.
Attachment 1 - Scott O-Vista 2000/CS

NOTE - The Scott O-Vista and O-Vista Comfort Seal (O-Vistas do not have a nose cup or “speaker diaphragms”) These masks are restricted from being used in temperatures 32°F and below.

- The O-Vista comfort seal mask will be stamped with L (large) and the stamp will be in a different location than the O-Vista size large. There are a few ways to identify an O-Vista Comfort Seal (CS):
  - Rib under chin cup notes a comfort seal. The other sizes do not have a rib
  - Comfort Seal has a deeper chin cup than the other sizes.
  - Comfort Seal has a “double flap” and the other sizes have “single flap” for their sealing surface. This “double or single” flap may also be known as a “lip”. On the comfort seal the “lip” is on the inside and for all other sizes (S, L, XL, the “lip” is on the outside).

- Chemical cartridges and cartridge change out schedule will be determined by an Industrial Hygienist and documented, see Attachment 15.

- The mask fit card will indicate which model, size, and harness type the person was fit for: Scott OV-2000 Lg w/Poly Harness. Scott OV-2000 CS w/Poly Harness, etc.

- The OV-2000 mask comes without a nose cup and speaker diaphragms installed

- The word Silicone must be in the face piece size/type description on the mask fit card in order for the user to be issued a silicone mask. (Example: SCOTT OV CS silicone w/Poly Harness.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>NOTE - The stamp showing the size is generally located on the sealing surface near the right temple. Small (green), Large (black), Extra Large (red), and Comfort Seal™ (black)</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>Rubber, Silicone, Comfort Seal</td>
</tr>
<tr>
<td>Head Harness</td>
<td>Poly (black), Kevlar (yellow)</td>
</tr>
</tbody>
</table>
| Cartridges         | Chemical (7422-SC1)  
                      | Chemical/P100 (7422-SD1)  
                      | Mercury/P-100 (7422-MB1)  
                      | P-100 Particulate (7422-FP1) |
| Communication Device | None                                                                  |
NOTE - The Scott AV and the AV Comfort seal (CS) face piece have a nose cup. The stamp for the AV will be in a different location than the CS. There are a few ways to identify a AV Comfort Seal (CS):
- Rib under chin cup notes a comfort seal. The other sizes do not have a rib
- Comfort Seal has a deeper chin cup than the other sizes
- Comfort Seal has a “double flap” and the other sizes have “single flap” for their sealing surface. This “double or single” flap may also be known as a “lip”. On the comfort seal the “lip” is on the inside and for all other sizes (S, L, XL, the “lip” is on the outside).

- The mask fit card will indicate which type the person was fit for: Scott AV-2000 Lg w/Poly Harness. Scott AV-2000 CS w/Poly Harness, etc.
- The AV-2000 mask comes with a nose cup and speaker diaphragms installed. The mask must be fit and worn with the nose cup in.
- The word Silicone must be in the face piece size/type description on the mask fit card in order for the user to be issued a silicone mask.
  - Example: Scott AV200 silicone XL W/Poly Harness.
- Chemical cartridges and cartridge change out schedule will be determined by an Industrial Hygienist and Documented, see Attachment 15.

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>NOTE - The stamp showing the size is generally located on the sealing</td>
</tr>
<tr>
<td></td>
<td>surface near the right temple.</td>
</tr>
<tr>
<td></td>
<td>Small (green), Large (black), Extra Large (red), and Comfort Seal™ (black)</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>Rubber, Silicone, Comfort Seal</td>
</tr>
<tr>
<td>Head Harness</td>
<td>Poly (black), Kevlar (yellow)</td>
</tr>
<tr>
<td>Cartridges</td>
<td>Chemical (7422-SC1)</td>
</tr>
<tr>
<td></td>
<td>Chemical/P100 (7422-SD1)</td>
</tr>
<tr>
<td></td>
<td>Mercury/P-100 (7422-MB1)</td>
</tr>
<tr>
<td></td>
<td>P-100 Particulate (7422-FP1)</td>
</tr>
<tr>
<td>Cartridge Shelf Life</td>
<td>Refer to Attachment 16</td>
</tr>
<tr>
<td>Communication Device</td>
<td>Nose cup and speaker diaphragms.</td>
</tr>
<tr>
<td></td>
<td>Can use the Voice Vector</td>
</tr>
</tbody>
</table>
NOTE - The mask fit card will indicate which type the person is fit for; examples include:
- Scott AV-3000 S w/SD Poly Harness
- Scott AV-3000 M w/SD Kevlar Harness
- Scott AV-3000 L w/LG Poly Harness.

- Harness Attachment: The AV-2000 harness attachment pivots as a unit. The AV-3000 harness attachment pivots independent from the pull strap.

- Harness Sizes: The head harnesses for AV-3000 come in size standard “SD” and size large “LG”. When purchasing a face piece, the size Small and Medium face piece come equipped with a Standard size harness and the size Large face piece comes equipped with a size Large harness.

- The size of the nose cup DOES NOT change fit, form, or function. The face piece must be fit with the nose cup in and worn with the nose cup in, but the size of the nose cup does not matter, therefore it isn’t listed on the mask fit card.

- Chemical cartridges and cartridge change out schedule will be determined by an Industrial Hygienist and documented, see Attachment 15.

- The mask fit card will indicate which harness and face piece size the person was fit for: Scott AV-3000 M w/Poly Harness, etc.

- The AV-3000 face piece only comes with a nose cup. The user may change the size of the nose cup without having to be refit. The face piece must be fit and worn with the nose cup in.

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>Small (black), Medium (black), Large (black),</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>Polyisoprene</td>
</tr>
<tr>
<td>Head Harness</td>
<td>Poly (black), Kevlar (yellow)</td>
</tr>
<tr>
<td>Cartridges</td>
<td>Chemical (7422-SC1)</td>
</tr>
<tr>
<td></td>
<td>Chemical/P100 (7422-SD1)</td>
</tr>
<tr>
<td></td>
<td>Mercury/P-100 (7422-MB1)</td>
</tr>
<tr>
<td></td>
<td>P-100 Particulate (7422-FP1)</td>
</tr>
<tr>
<td>Cartridge Shelf Life</td>
<td>Refer to Attachment 16</td>
</tr>
<tr>
<td>Communication Device</td>
<td>Nose cup and speaker diaphragms</td>
</tr>
<tr>
<td></td>
<td>Nose cup sizes: small, medium, large, and extra large</td>
</tr>
</tbody>
</table>
Attachment 4 - Scott “Weld-O-Vista” Mask

NOTE - For fit-testing and face piece issuing purposes, this mask needs to be identified as follows:

Scott Weld-O-Vista

- Individuals being issued Scott welding respirators must have a specific mask fit for the configuration. To wear the face piece shown above, the mask fit card of the user must have one of the following items listed on their card:
  - Scott Weld-O-Vista S w/Kevlar Harness
  - Scott Weld-O-Vista L w/Kevlar Harness
  - Scott Weld-O-Vista XL w/Kevlar Harness
  - Scott Weld-O-Vista CS w/Kevlar Harness.

- To distinguish between the newest Weld-O-Vista and the two older versions, note that the new Weld-O-Vista only allows viewing through the welding visor, the rest of the face shield is black.

- Being fit for a Scott AV2000 or Scott OV2000 Weld Shield does not give permission for user to be issued Scott Weld-O-Vista.

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>NOTE - The stamp showing the size is generally located on the sealing surface near the right temple. Small (green), Large (black), Extra Large (red), and Comfort Seal™ (black) This mask only comes with a nose cup.</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>Rubber, Silicone</td>
</tr>
<tr>
<td>Head Harness</td>
<td>Kevlar (yellow), Poly (black)</td>
</tr>
<tr>
<td>Cartridges</td>
<td>Chemical (7422-SC1)</td>
</tr>
<tr>
<td></td>
<td>Chemical/P100 (7422-SD1)</td>
</tr>
<tr>
<td></td>
<td>Mercury/P-100 (7422-MB1)</td>
</tr>
<tr>
<td></td>
<td>P-100 Particulate (7422-FP1)</td>
</tr>
<tr>
<td>Cartridge Shelf Life</td>
<td>Refer to Attachment 16</td>
</tr>
<tr>
<td>Communication Device</td>
<td>None</td>
</tr>
</tbody>
</table>
NOTE - MSA Ultra Elite face piece come in softfeel hycar rubber or silicone. The size of the face piece small, medium or large will be stamped in the MSA logo, if the face piece is silicone the word silicone will be stamped in the MSA logo also. Elites that are hycar rubber will not have additional wording stamped in the MSA circle.

- Silicone MSA’s are available in colors of black and gray.

- The word SILICONE must be in the face piece size/type description on the users mask fit card. Example: MSA Ultra Elite Silicone L.

- The Ultra Elite comes equipped with a speaker diaphragm.

- Requires the use of the Twin Cartridge Adapter and optional use of the component keeper for use as an APR or may be used with a single cartridge OptiFilter XL HE (P-100).

- Approved for use with the MSA OptimAir TL PAPR.

- Mask fit for the Ultra Elite is a separate fit test and does not qualify the use of a Ultra Twin/Vue face piece.

- Chemical cartridges and cartridge change out schedule will be determined by an Industrial Hygienist and documented (See Attachment 15).

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>Small, Medium, Large</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>SoftFeel Hycar Rubber, Silicone</td>
</tr>
<tr>
<td>Head Harness</td>
<td>Hycar, Silicone</td>
</tr>
<tr>
<td>Cartridges</td>
<td>GME Chemical cartridge</td>
</tr>
<tr>
<td></td>
<td>GME P-100 Chemical/P100 cartridge</td>
</tr>
<tr>
<td></td>
<td>P-100 Particulate cartridge</td>
</tr>
<tr>
<td></td>
<td>Mersorb Mercury/P-100</td>
</tr>
<tr>
<td>Cartridge Shelf Life</td>
<td>Refer to Attachment 16</td>
</tr>
<tr>
<td>Communication Device</td>
<td>Speaker diaphragm</td>
</tr>
</tbody>
</table>
Attachment 6 - MSA Advantage® 200LS

NOTE - LS = Lighter and Softer Blue in color. Sizes are small, medium and large, The size marking is on the side of the nose piece.

- Users of other Advantage 200 half-mask models do not need to be fit-tested again before they wear the Advantage 200 LS Respirator.

- The Advantage 200 LS is normally disposed of when returned to the Mask Station but can be sent in to be laundered

- Advantage face piece adapter kit (#809999) allows the use of the MSA APR cartridges.

- Chemical cartridges will be determined by an Industrial Hygienist and documented, see Attachment 15.

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>Small, Medium, Large</td>
</tr>
<tr>
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</tr>
<tr>
<td>Head Harness</td>
<td>Plastic and Elastic Straps</td>
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<tr>
<td>Cartridges</td>
<td>GME Chemical cartridge</td>
</tr>
<tr>
<td></td>
<td>GME/P-100 Chemical/P-100 cartridge</td>
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<td>P-100 Particulate cartridge</td>
</tr>
<tr>
<td></td>
<td>Mersorb Mercury/P-100 Cartridge</td>
</tr>
<tr>
<td>Cartridge Shelf Life</td>
<td>Refer to Attachment 16</td>
</tr>
<tr>
<td>Communication Device</td>
<td>None</td>
</tr>
</tbody>
</table>
NOTE - The 3M 6000 series face piece can be used in both the negative pressure (as an APR face piece) and positive pressure (as a PAPR face piece) mode. Currently at tank farms, the 3M 6000 is only used in the APR mode.

- The size is located on the top front of the face piece with the letter S (small), M (medium) or L (large).

- Chemical cartridges and cartridge change out schedule will be determined by an Industrial Hygienist and Documented, see Attachment 15.

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>Small, Medium, Large</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>Silicone</td>
</tr>
<tr>
<td>Head Harness</td>
<td>Silicone</td>
</tr>
<tr>
<td>Cartridges</td>
<td>P-100 MultiGas/Vapor/P100 Pink Pad-2091 or hard shell 7093) Particulate</td>
</tr>
<tr>
<td>Cartridge Shelf Life</td>
<td>Refer to Attachment 16</td>
</tr>
<tr>
<td>Communication Device</td>
<td>None</td>
</tr>
</tbody>
</table>
Respirator Issuance and Control

Attachment 8 - Self-Contained Breathing Apparatus (SCBA)

NOTE - SCBA’s can be issued to individuals in two different ways: Harness only; Harness and air cylinder with case.

- The Scott SCBA is a respirator designed to provide mobility while providing approximately 30 minutes or 1 hour of breathable air to personnel:
  - The 60 and 30 minute cylinders (carbon fiberglass aluminum) are required to be hydro test every 5 years.

- All SCBA air cylinders must be transported in approved vehicles in cases or cylinder carrying boxes.

- All SCBA equipment has a unique identifier number and inventoried monthly.

- The issuer is responsible for completing the Sign-In/Sign-Out Log Sheet and verifying user training for the equipment that is being requested.

- The user must sign for all equipment received.

- Equipment will be cleaned per current cleaning procedure TO-020-024.

- The user will perform the pre-use inspections of respiratory equipment:
  - This will include checking to confirm the bottle is full (4000 psi or greater), alarm function, bottle hydro and bench test dates are current.

- Check the test date on the reducer or regulator. Test date sticker must be on one or the other, but is not required on both for use.

- The issuer may prepare an air cylinder with SCBA harness in a case and note the equipment unique identifiers on the outside of the case (typically written on masking tape).

- The issuer will not hookup the air cylinder to the SCBA harness.

- If the SCBA is expected to be used at temperatures 32 °F and below, the user must use the Scott Mask with nose cup.

- When performing work that requires supplied air respiratory equipment in cold temperature environments (< 40 degrees F), the bottle, regulator, and user will be required to be in a warm area for no less than 15 minutes to ensure the regulator, replacement bottles (as needed) and the user have enough time to warm prior to proceeding with work.
NOTE - When issuing a Scott Carri-Air the respiratory user must also be trained and qualified on a Scott SKA-PAK and fitted for a Scott face piece.

- Scott EZ-Airline regulators can be used like a Scott SKA-PAK and do not require the use of a 5 minute bottle.
  - It cannot be used in an IDLH atmosphere or in a VCZ posted area
  - Limited to a 25 ft. airline without an attendant.

- Assembly of a Carri-Air can only be used with a 1 hour cylinder. SKA-PAK unit or EZ-Airline, and airline hose (airline hose limited to 25’ without an attendant).

- If a Carri-Air is issued with a 1 hour air cylinder the unit will be placed in a black carrying case. All air cylinders must be transported in approved vehicles and in cases or cylinder carrying boxes.

- Upon return to the issue station, the issuer will inspect the Carri-Air unit.

- The unit will be wiped down to remove dirt with a clean, damp cloth if needed.

- The airline hose will be reconnected into its self for storage.
Attachment 10 - SKA-PAK/EZ-AIRLINE

NOTE - Prior to issuing a SKA-PAK/EZ-AIRLINE, an inspection must be performed on the belts, straps, airline hoses, coupling, bottles, and regulator.

- When issuing the SKA-PAK/EZ-AIRLINE, verify that the user is qualified to wear SKA-PAK and fitted for Scott Masks. A SKA-PAK qualification also allows the use of a EZ-AIRLINE regulator.

- An EZ-AIRLINE regulator can be used like a SKA-PAK but without the 5 minute bottle:
  - EZ-AIRLINE regulators cannot be used in an IDLH atmosphere or VCZ areas.
  - Both units are limited to a 25 ft airline hose without an attendant when used with a Carri-Air unit.
  - Industrial Hygiene will make the determination when a SKA-PAK is required or when the EZ-AIRLINE can be used instead of a SKA-PAK.

- Equipment will be cleaned per current cleaning procedure TO-020-024.

- The belts and straps are visually inspected for damage.

- It is important to confirm that the belts and straps are whole, without cuts, abrasions, or other visual damage.

- Airline hoses on the harness are visually inspected for damage.

- The hoses must indicate that they are manufactured by Scott, or labeled Flex, Dayco, or Aeroquip.

- The fittings must be verified to be Foster Schrader fittings only.

- An inspection is performed on the respirator coupling system:
  - This inspection is performed on the O-ring to confirm it is in place, and not damaged, free of debris, and verify that the threading is not worn or cross-threaded
  - A visual inspection of SKA-PAK air cylinders are to be performed to determine that there are no nicks, or gouges or other damage
  - In addition, the hydro date must be within 3 years from the inspection date
  - The regulator is inspected to confirm that it is properly cleaned, bagged, and the bench test date is current on the reducer and/or the regulator.

Continued on Next Page
Attachment 10 - SKA-PAK/ (Cont.)

- The SKA-PAK assembly process involves two harnesses, the old style of harness, and the new style of harness:
  - The old harness is black, and uses hose clamps to attach the cylinder. The cylinders are slightly larger, with flat bottoms
  - The new style of harness is black with a yellow stripe and have “Scott” imprinted on the shoulder strap. The cylinders are smaller and have a round bottom along with a clip on the side.

- The appropriate bottle is attached to the harness, making sure that the hose bands are tight and/or the clip is fully engaged:
  - Attach the coupling to the bottle, making sure that the O-ring is installed. The coupling must be fully threaded and tightened.
Special Instructions

CONFIRM the user does not intend to use the respirator when temperatures are 32 °F and below due to decreased battery life. Use of this respirator at temperatures below the recommended limits may result in personnel injury and or death.

CONFIRM the user does not intend to use the respirator in an atmosphere which is immediately dangerous to life or health (IDLH) or in which contaminant concentrations are unknown.

CONFIRM the user does not intend to use the respirator as an underwater device.

NOTE - MSA-TL equipment will be returned per maintenance sticker.

- The motor-blower, battery pack and filters are worn as an assembly on the support belt.

- The breathing tube connects the belt-mounted assembly to the face piece or hood. The OptimAir TL has separate breathing tubes depending on whether the unit is used with a full face or with a hood.

- When using a single Bib hood, the knit collar must contact the wearer’s skin. Beards or long hair shall not extend into the collar area.

- The OptimAir TL PAPR can be adapted for use of a hard hat under the PAPR hood. Only the MSA V-Gard hard hat can be worn with this unit. The hood may also be worn with or without the use of a suspension.

- The OptimAir TL does not require the use of a flow test indicator prior to use.

<table>
<thead>
<tr>
<th>Component</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes</td>
<td>Ultra Elite: Small, Medium, Large</td>
</tr>
<tr>
<td>Sealing Surface</td>
<td>Rubber, Silicone</td>
</tr>
<tr>
<td>Hood</td>
<td>Tyvek</td>
</tr>
<tr>
<td>Cartridges</td>
<td>Type HE cartridge</td>
</tr>
<tr>
<td></td>
<td>Other cartridge types are available.</td>
</tr>
<tr>
<td>Communication Device</td>
<td>None</td>
</tr>
</tbody>
</table>
Special Instructions

CONFIRM the user does not intend to use the respirator when temperatures are 10 °F and below due to decreased battery life. Use of this respirator at temperatures below the recommended limits may result in personnel injury and or death.

CONFIRM the user does not intend to use the respirator as an underwater device.

NOTE - Breathe Easy equipment will be returned per maintenance sticker.

- The Breathe Easy PAPR is a NIOSH-approved Powered Air Purifying Respirator system that consists of a blower/filtration unit, disposable hood, breathing tube assembly, rechargeable battery, and appropriate filter/cartridge/canister.

- The Breathe Easy is attached to the wearer via a belt assembly. The belts are available in three materials: nylon, polyurethane-coated nylon and leather, and will accommodate up to 60” waist sizes.

- The issuer will prepare used PAPR blower units and batteries to be picked up by the IH techs for maintenance and charging including the mandatory quarterly inspections.

- There are currently two types of hoods that are worn with the Breathe Easy blower unit:
  - 3M H-series hoods (available in regular and large sizes)
  - The 3M H-series hoods are loose fitting headgear, it features a wide view lens and a shoulder length outer shroud
  - General Purpose Headgear
  - General Purpose Headgear consists of a Tyvek face seal with a visor surround and a headband cradle assembly.
  - These hoods will accommodate limited facial hair without compromising the level of protection, provided the facial hair does not come between the elastic edge of the face seal and face, and does not protrude into the neck area.

- Batteries are on a one week recharge cycle if not used daily. Batteries will have two dates assigned to them. One for the one weekly recharge, and one for the initial charge.
Attachment 12 - PAPR 3M Breathe Easy (Cont.)

- The blower unit is required to be tested with a flow test device before each use. This will be done by the user:
  - The user is supplied with a flow test indicator. Units must supply 6 CFM when used with a hood and 4 CFM to the face piece when used with a tight fitting mask. This flow test requires the removal of the hood hose and the three cartridges to be installed and plugs removed.
  - The blower unit will have a unique identification number and will display a current date for leak testing.

- The Breath Easy requires 3 cartridges and or canisters and is hood use only:
  - The FR57 canisters are a chemical and P-100 combination
  - P-100 cartridges are for particulates # 450-00-01
  - 3M has other cartridge types that are not currently used at Tank Farms.
Attachment 13 - Breathing Air Cart Issuance and Control

NOTE - Breathing air carts will be issued from established Issue Stations and because of their set up and use in the field will not require return after two consecutive shifts.

- There is only one type of air cart:
  - Air System Air Cart

- Bottle Cart Issuer confirms the following:
  - Breathing Air Cart Sign In/Out Log is available for each cart in the Issue station inventory and that information specific to each cart is documented completely
  - POC is documented legibly in the Name Print/Sign block on the Breathing Air Cart Sign In/Out Log
  - A current copy of the breathing cart checklist is available on each cart (A-6004-341)
  - Information pertaining to the cart issuance and return is completed documented on the Breathing Air Cart Sign In/Out Log and/or RETS
  - Carts are returned to Fire Maintenance annually for required preventive maintenance and calibration
  - Carts are properly stored when not in use.
  - Airline hose is kept at the supply building and the amount will be documented on the sign in sign out log for that cart.

- User/Point of Contact **MAINTAIN** accountability for the location of all carts issued:
  - Notify the Issue station when the cart location changes so it can be documented on the Breathing Air Cart Sign In/Out Log.
  - Assign only qualified personnel to operate bottle cart.
  - Keep the cart inside a structure or covered to minimize dirt and debris effects whenever the breathing cart is positioned at the work location but not in use
  - Return breathing carts to the Issue station whenever a job has been completed or suspended for an extended period.
NOTE - The voice communicators that may be available at Issue Stations include:

- Voice Vector
- Kenwood
- Voice Amps
- Throat Mics.

- The Mask Operator must inspect the units and wipe clean prior to re-issuance.
- All communicators are battery powered, using non-rechargeable alkaline batteries.
- The Mask Operator confirms that discarded, used batteries are placed in the battery recycle receptacle:
  - Communicator batteries are checked, and will need to be replaced as needed. Only non-rechargeable, 9-volt batteries are to be used with the communicators.
- The Scott Voice Amps and Voice Vectors only fit on a Scott AV 2000 mask. Voice Amps are installed and removed by a qualified Mask Operator only.
- The Kenwood microphones are connected to a hand-held radio, and to the user’s clothing. These microphones are clipped to the lapel of the user:
  - Operating the Kenwood requires the user to key the radio and speak into the microphone.
- The Voice Vector microphone is similar to the Scott Voice Amps and also the Kenwood because the Voice Vector connects to the speaker port on the Scott AV mask, and is also connected to the radio:
  - The radio must be activated and then the user speaks into the microphone.
NOTE - A chemical cartridge change out will be determined by an IH as per procedure TFC-ESHQ-IH-STD-07, Respiratory Protection (use most current revision):
- This confirms that the air-purifying respirators are not used in situations where a chemical or canister becomes saturated with gases, vapors or contaminants.
- Many factors can influence the service life of a cartridge or canister, one of which is the chemical properties of contaminants:
  - For chemical or combination cartridges, Industrial Hygienist (IH) will identify the type of cartridge to be used and the change out schedule based on job and chemical data
  - When using cartridges that have an end of service life indicator (ESLI) a change out schedule will still be required by an IH and shall be changed out based on the schedule or the ESLI, whichever comes first.
  - Other factors which can influence the service life of a cartridge or canister are temperature and humidity. High temperatures can directly affect the performance of the activated carbon filter. Humidity greater than 85% reduces the service life of cartridges or canisters by 50%.
  - OSHA states that cartridges or canisters that do not have an end of service life indicator require that the user receive a change out schedule from IH.
NOTE - Mask Cartridge Shelf Life
- MSA GME-P-100 3 Years
- MSA GME 3 Years
- MSA P-100 No Expiration
- Mersorb/P-100 3 Years
- SCOTT 7422-SD1 (chemical/P-100) 3 Years
- SCOTT 7422-SC1 (chemical) 3 Years
- SCOTT 7422 FP1 (P-100) 5 years
- SCOTT 7422-ZB1 (Mercury/P-100) 3 Years
- 3M 6006 (Multi Gas) 5 Years
- 3M 60926 (Multi Gas/Vapor/P-100) 5 years
- 3M 7093/2091 (P-100) No Expiration
- 3M 60929 Mercury/P-100 5 Years

- How to determine the expiration date for cartridges and canisters:
  - 3M prints the expiration date on the packaging. No calculations required
  - SCOTT prints the expiration date on each 742 style cartridge. No calculation is required. The lot # on the cartridge is the date of manufacture.
  - MSA used a four digit date code on the cartridges to indicate the date of manufacture. The first two numbers are the WEEK and the next two numbers are the YEAR (example 2088 is the 20th week of 1988), then add the number of years that it is good for to the date and that is the expiration date.
  - OSHA states that cartridges or canisters that do not have an end of service life indicator then the user must receive a change out schedule from IH.
  - Chemical canisters/cartridges with an ESLI shall be changed out based on the change out schedule or the ESLI, whichever comes first (ESLI canister/cartridges require monitoring by a coworker when used) per DOE-0352