



PO Box 4542
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[HTTP://WWW.MINELIFELINE.COM](http://www.minelifeline.com)

INSPECTION OF THE REFUGE CHAMBER.



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INSPECTION INSTRUCTION OVERVIEW

Your outby refuge shall be inspected periodically to confirm emergency items are intact and have not been tampered with. Mine Lifeline, LLC has supplied you with Numbered Tamper Indication Seals which are strategically located on different areas of the skid. During inspection, you should document the numbers located on these tags and enter new numbers should you need to open and inspect the contents of these areas.

Mine Lifeline recommends that you perform inspections in accordance with these prescribed procedures:

WEEKLY INSPECTION

To be performed by a qualified person.

1. Perform a visual inspection of the airlock door and masonry wall(s).
2. Enter the refuge through the airlock door and immediately take a gas check using a properly calibrated multi-gas detector. If air quality readings inside the refuge are not within the prescribed limits - immediately exit the refuge and take appropriate measures to return air quality to acceptable levels.
3. Perform a visual inspection of the skid. Ensure that all serial numbers on tamper indication seals match your documentation. In the event a seal has been broken or serial numbers change unexpectedly, open compromised area, thoroughly inspect contents, reseal, and document.
4. Verify that the Lithium Hydroxide Hanging Rods are intact and properly installed inside the refuge.
5. Count and verify that the amount of purge air (if required) matches your documentation.

90 DAY INSPECTION

To be performed by a qualified person.

1. Perform standard weekly exam.
2. Remove cover from Oxygen / Air compartment on the skid.
3. On each individual oxygen and air cylinder perform the following procedure:
 - a. Open cylinder valve.
 - b. Document pressure reading and corresponding bar code.
 - c. FULLY CLOSE the cylinder valve.
4. Perform your 90 day SCSR inspection in accordance with manufacturer specifications.
5. Replace and document all tamper indication seals removed during exam.

NOTE: Fuzzy Leaks could cause gauges to return to zero after cylinder valve has closed for an extended period of time. You should not be alarmed if this happens as long as the pressure is at the specified range when valve is open.

ANNUAL INSPECTION

To be performed by a qualified person.

1. Perform standard weekly exam.
2. Perform standard 90 day exam with modified cylinder inspection:
 - a. Open cylinder valve fully.
 - b. Document pressure reading and corresponding bar code.
 - c. FULLY CLOSE the cylinder valve.
 - d. Using supplied nut wrench slightly loosen the gauge on the cylinder to let pressure bleed off.
 - e. Verify gauge reads zero.
 - f. Using supplied nut wrench snugly re-tighten the cylinder gauge.
 - g. Reopen cylinder valve and verify the pressure is the same as documented. If not, swap with another



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h. FULLY CLOSE THE CYLINDER VALVE

3. Open ExtendAir compartment and perform a visual examination and count of all boxes located inside. Ensure the tamper indication seals are intact.
4. Open all other compartments to examine and inventory everything making sure the count matches your inventory sheet.
5. Unless performed and documented during a training session, connect the pigtail from the oxygen regulator to a Test and Training Cylinder and open valve. Turn regulator until low pressure gauge reads 50 psi and let exhaust for 10 seconds.
6. Replace all compartment doors and reseal using supplied numbered tamper indication seals.

NOTE: The silent seal foam and colorimetric gas detection tubes have a two year shelf life. These items need replaced every other annual inspection.

FIVE YEAR INSPECTION

To be performed by Mine Lifeline, LLC

1. Perform standard weekly examination.
2. Perform standard 90 day examination.
3. Perform standard annual examination.
4. Mine Lifeline, LLC shall examine pressure readings on oxygen and air cylinders. If pressure readings are within specifications, removal and / or replacement of cylinders is not necessary. *
5. Mine Lifeline, LLC shall examine and test ExtendAir lithium hydroxide curtains. If specifications are within tolerance, Mine Lifeline, LLC shall re-certify the ExtendAir curtain for a period of one year. **
6. Replace food supplies.
7. Replace any items damaged or missing.

SUBSEQUENT ANNUAL INSPECTIONS

To be performed by Mine Lifeline, LLC

1. Perform standard weekly examination.
2. Perform standard 90 day examination.
3. Perform standard annual examination.
4. Mine Lifeline, LLC shall examine and test ExtendAir lithium hydroxide curtains. If specifications are within tolerance, Mine Lifeline, LLC shall re-certify the ExtendAir curtain for a period of one year. **

* At the time of this writing, Mine Lifeline, LLC is not aware of any laws or regulations that would require the cylinders to be removed from service after the initial five year period. This is subject to change depending on local, state, or federal regulations or company policies of Mine Lifeline, LLC.

** Current manufacturer specifications state that the ExtendAir Lithium Hydroxide Curtains have an initial shelf life of five years. Additional one year re-certification can be achieved by weighing and testing in accordance with manufacturer provided specifications.



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WEEKLY INSPECTION CHECKLIST

To be performed by a qualified person.

PASS FAIL

- Perform a visual inspection of the airlock door and masonry wall(s).
- Enter the refuge through the airlock door and immediately take a gas check using a properly calibrated multi-gas detector. If air quality readings inside the refuge are not adequate - immediately exit the refuge and take appropriate measures to return air quality to acceptable levels.
- Perform a visual inspection of the skid. Ensure that all serial numbers on tamper indication seals match your documentation. In the event a seal has been broken or serial numbers change unexpectedly, open compromised area and thoroughly inspect contents.

Oxygen / Air Compartment Seal #1: _____
 Oxygen / Air Compartment Seal #2: _____
 ExtendAir Curtain Compartment Seal #1: _____
 ExtendAir Curtain Compartment Seal #2: _____
 Food, Water, Tools Compartment Seal #1: _____
 Food, Water, Tools Compartment Seal #2: _____
 First Aid Compartment Seal #1: _____
 First Aid Compartment Seal #2: _____
 SCSR Storage Seal #1: _____

SEAL CHANGED?	
YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

- Verify that the Lithium Hydroxide Hanging Rods are intact and properly installed inside the refuge area.
- Count and verify the number of purge air cylinders (if required) matches your documentation.

COMMENTS: _____

Inspected By: _____ Date: ____/____/____



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90 DAY INSPECTION CHECKLIST

To be performed by a qualified person.

PASS FAIL

Perform standard weekly exam.

Remove cover from Oxygen / Air compartment on the skid. On each individual oxygen and air cylinder perform the following procedure:

- a. Open cylinder valve.
- b. Document pressure reading and corresponding bar code.
- c. FULLY CLOSE the cylinder valve.

OXYGEN CYLINDER 1:	
BARCODE:	
PRESSURE READING:	

OXYGEN CYLINDER 2:	
BARCODE:	
PRESSURE READING:	

OXYGEN CYLINDER 3:	
BARCODE:	
PRESSURE READING:	

OXYGEN CYLINDER 4:	
BARCODE:	
PRESSURE READING:	

OXYGEN CYLINDER 5:	
BARCODE:	
PRESSURE READING:	

OXYGEN CYLINDER 6:	
BARCODE:	
PRESSURE READING:	

AIR CYLINDER 1:	
BARCODE:	
PRESSURE READING:	

AIR CYLINDER 2:	
BARCODE:	
PRESSURE READING:	

AIR CYLINDER 3:	
BARCODE:	
PRESSURE READING:	

AIR CYLINDER 4:	
BARCODE:	
PRESSURE READING:	

NOTE: Fuzzy Leaks could cause gauges to bleed off after cylinder valve has closed for an extended period of time. You should not be alarmed if this happens as long as the pressure returns to the specified range.

Perform your 90 day SCSR inspection in accordance with manufacturer specifications.

Replace and document all tamper indication seals on weekly exam sheet.

COMMENTS: _____

Inspected By: _____ Date: ____/____/____



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ANNUAL INSPECTION CHECKLIST

To be performed by a qualified person.

PASS FAIL

Perform standard weekly exam.

Perform standard 90 day exam with modified cylinder inspection:

a. Open cylinder valve fully.

b. Document pressure reading and corresponding bar code.

c. FULLY CLOSE the cylinder valve.

d. Using supplied nut wrench slightly loosen the gauge on the cylinder to let pressure bleed off.

e. Verify gauge reads zero.

f. Using supplied nut wrench snugly re-tighten the cylinder gauge.

g. Reopen cylinder valve and verify the pressure is the same as documented. If not, swap with another gauge and re-check. If gauge is found to be faulty - replace.

h. FULLY CLOSE THE CYLINDER VALVE.

Open ExtendAir compartment and perform a visual examination and count of all boxes located inside. Ensure the tamper indication seals are intact.

Open all other compartments to examine and inventory everything making sure the count matches your inventory sheet.

Unless performed and documented during a training session, connect the pigtail from the oxygen regulator to a Test and Training Cylinder and open valve. Turn regulator until low pressure gauge reads 50 psi and let exhaust for 10 seconds. Return pigtail to primary oxygen cylinder and tighten with wrench.

Replace all compartment doors and reseal using supplied numbered tamper indication seals and document the serial numbers on the weekly exam sheet.

NOTE: The silent seal foam and colorimetric gas detection tubes have a two year shelf life. These items need replaced on every other annual inspection.

Verify expiration dates on Silent Seal Foam and Colorimetric Gas Detection Tubes.

Verify purge air cylinder pressures remain at 4500 PSI each (if purge air is required).

COMMENTS: _____

Inspected By: _____ Date: ____/____/____