



	<p align="center">Berry Bros. General Contractors, Inc. Corporate Policy Procedure</p> <p align="center">(HSE) Health, Safety & Environmental Policies and Procedures Manual</p>	
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RESPIRATORY PROTECTION		

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SUBPART A - SCOPE



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This respirator program provides standard operating procedures to ensure the protection of all employees from respiratory hazards.

SUBPART B - PURPOSE

Respirators are to be used only where adequate engineering and work practice controls of respirator hazards are not feasible, while engineering controls are being installed, or in emergencies. This program is in accordance with the requirements of OSHA 29 CFR 1910.134.

SUBPART C - RESPONSIBILITIES

All affected employees shall follow the requirements of the Respiratory Protection Program. All affected Berry Bros. employees shall be sent to our company medical facility for a physical evaluation and pulmonary function testing as needed or before being required to use a respirator. Additionally, they shall have a respirator fit test and questionnaire as well as instructions for proper use of a respirator. All employees are to use respiratory protection when engineering control measures are not feasible or, during emergency situations with high exposure levels exist. Respirators shall be provided which are applicable and suitable for the purpose intended. (This includes proper cartridges). All respirator equipment shall be provided to the employee(s) at no cost to them.

Management

- Implement the requirements of this program
- Provide a selection of respirators as required
- Provide medical, respirators, and training as required to be provided free to the employees.
- Enforce all provisions of this program.
- Designate a program administrator to oversee and implement the program.

Program Administrator

- Review sanitation/storage procedures.
- Ensure respirators are properly, stored, inspected and maintained
- Monitor compliance for this program.



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- Provide training for affected Employees.
- Review compliance and ensure monthly inspection of all respirators.
- Provide respirator fit testing.

Designated Occupational Health care Provider

- Conduct medical aspects of program.
 - Bourgeois Medical Clinic in Morgan City, LA.
 - Grand River Health and Safety Center in Parachute, CO.
 - Work Kare in Shreveport, LA
 - Mercy Medical in Dickerson, N.D.

SUBPART D - PROGRAM ADMINISTRATOR

Each facility and/or work site will designate a program administrator who is qualified by appropriate training or experience that is commensurate with the complexity of the program to administer or oversee the respiratory protection program and conduct the required evaluations of program effectiveness.

SUBPART E - VOLUNTARY USE OF RESPIRATORS IS PROHIBITED

OSHA requires that voluntary use of respirators, when not required by the company, must be controlled as strictly as under required circumstances. To prevent violations of the Respiratory Protection Standard Employees are not allowed voluntary use of their own or company supplied respirators of any type.

Exception: Employees whose only use of respirators involves the voluntary use of filtering (non-sealing) face pieces (dust masks).

SUBPART F - RESPIRATOR SELECTION

Respirators are selected on the basis of respiratory hazards to which the worker is exposed, and or workplace and user factors that affect respirator performance and reliability.

Only NIOSH–certified respirators are selected and used.



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Where practicable, the respirators are assigned to individual workers for their exclusive use.

SUBPART G - MEDICAL EVALUATIONS

A medical evaluation to determine whether an employee is able to use a given respirator is an important element of an effective Respiratory Protection Program, and is necessary to prevent injuries, illnesses, and even in rare cases, death from the physiological burden imposed by respirator use.

At the work facility, persons will not be assigned to tasks requiring use of respirators nor fit tested unless it has been determined that they are physically able to perform the work and use the respirator.

Before any initial examination or questionnaire is given, employees are directed to the physician or other licensed health care professional (PLHCP) with the following information so that he/she can make the best recommendation concerning an employee's ability to use a respirator:

- Type and weight of the respirator to be used by the employee.
- Duration and frequency of respirator use (including use for rescue and escape).
- Expected physical work effort.
- Additional protective clothing and equipment to be worn.
- Temperature and humidity extremes that may be encountered.

SUBPART H - PROGRAM EVALUATION

Evaluations of the workplace are necessary to ensure that the written respiratory protection program is being properly implemented; this includes consulting with employees to ensure that they are using the respirators properly. Evaluations shall be conducted as necessary to ensure that the provisions of the current written program are being effectively implemented and that it continues to be effective. Program evaluation will include discussions with employees required to use respirators to assess the employees' views on program effectiveness and to identify any problems. Any problems that are identified during this assessment shall be corrected. Factors to be assessed include, but are not limited to:



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- Respirator fit (including the ability to use the respirator without interfering with effective workplace performance).
- Appropriate respirator selection for the hazards to which the employee is exposed.
- Proper respirator use under the workplace conditions the employee encounters.
- Proper respirator maintenance.

SUBPART I - RECORD KEEPING

Berry Bros.' will retain written information regarding medical evaluations, fit testing, and the respirator program. This information will facilitate employee involvement in the respirator program, assist the Company in auditing the adequacy of the program, and provide a record for compliance determinations by OSHA.

SUBPART J - TRAINING AND INFORMATION

Effective training for employees who are required to use respirators is essential. The training must be comprehensive, understandable, and recur annually and more often if necessary. Training will be provided prior to requiring the employee to use a respirator in the workplace. The training shall ensure that each employee can demonstrate knowledge of at least the following:

- Why the respirator is necessary and how improper fit, usage, or maintenance can compromise the protective effect of the respirator.
- Hazards must be identified in order to have a supervisor make the proper selection and to provide respirators based on those hazards and factors affecting performance.
- Limitations and capabilities of the Advantage Model 3000 MSA NIOSH-certified respirator.
- How to use the respirator effectively in emergency situations, including situations in which the respirator malfunctions.
- How to inspect, put on and remove, use, and check the seals of the respirator (Fit check).
- What the procedures are for maintenance and storage of the respirator.
- How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators.



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- The general requirements of this program.

Retraining Shall be Conducted Annually and When

- Changes in the workplace or the type of respirator render previous training obsolete.
- Inadequacies in the employee's knowledge or use of the respirator indicate that the employee has not retained the requisite understanding or skill.
- Other situations arise in which retraining appears necessary to ensure safe respirator use.

Training is divided into the following sections:

Classroom Instruction

- Overview of the Company Respiratory Protection Program & OSHA Standard.
- Respiratory Protection Safety Procedures.
- Respirator Selection.
- Respirator Operation and Use.
- Why the respirator is necessary.
- How improper fit, usage, or maintenance can compromise the protective effect.
- Limitations and capabilities of the respirator.
- How to use the respirator effectively in emergency situations, including respirator malfunctions.
- How to inspect, put on and remove, use, and check the seals of the respirator.
- What the procedures are for maintenance and storage of the respirator.
- How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators.
- Change out schedule and procedure for air purifying respirators.

Fit Testing / Hands-on Respirator Training

- Respirator Inspection.
- Respirator cleaning and sanitizing.
- Record Keeping.



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- Respirator Storage.
- Respirator Fit Check.
- Emergencies.
- Medical evaluation shall be confidential, during normal working hours, convenient, understandable, employee given chance to discuss results with PLHCP.
- Respirator Fit test shall be conducted annually. Employees shall be required to pass a qualitative fit test (QLFT) or quantitative fit test (QNFT) before initial use. If a different respirator is used fit-testing for this unit shall be required as well.

SUBPART K - GENERAL RESPIRATORY PROTECTION SAFETY PROCEDURES

- The program administrator shall address appropriate surveillance, and ensure employees leave the area to wash, change cartridges, or if they detect break-through or resistance in their respirator. Only authorized and trained Employees may use Respirators. Those Employees may use only the Respirator that they have been trained on and properly fitted to use.
- Only Physically Qualified Employees (PQE) may be trained and authorized to use Respirators. A pre-authorization and annual certification by a qualified physician will be required and maintained. Any changes in an Employees health or physical characteristics will be reported to the Occupational Health Department and will be evaluated by a qualified physician.
- Only the proper prescribed respirator or self-contained breathing apparatus (SCBA) may be used for the job or work environment. Air cleansing respirators may be worn in work environments when oxygen levels are between 19.5 percent to 23.5 percent and when the appropriate air-cleansing canister, as determined by the Manufacturer and approved by the National Institute for Occupational Health (NIOSH) or the Mine Safety & Health Administration (MSHA), for the known hazardous substance is used. SCBA's will be worn in oxygen deficient and oxygen rich environments (below 19.5 percent or above 23.5 percent oxygen).
- Employees working in environments where a sudden release of a hazardous substance is likely will wear an appropriate respirator for that hazardous substance (example: Employees working in an ammonia compressor room will have an ammonia APR respirator on their person.).



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- Only SCBA's will be used in oxygen deficient environments, environments with an unknown hazardous substance or unknown quantity of a known hazardous substance or any environment that is determined "Immediately Dangerous to Life or Health" (IDLH).
- Employees with respirators loaned on "permanent check out" will be responsible for the sanitation, proper storage and security. Respirators damaged by normal wear will be repaired or replaced by the Company when returned.
- The last Employee using a respirator and/or SCBA that are available for general use will be responsible for proper storage and sanitation. Monthly and after each use, all respirators will be inspected with documentation to assure its availability for use.
- All respirators will be located in a clean, convenient and sanitary location.
- In the event that Employees must enter a confined space, work in environments with hazardous substances that would be dangerous to life or health should respiratory protection equipment (RPE) fail (a SCBA is required in this environment), and/or conduct a hazardous material (HAZMAT) entry, a "buddy system" detail will be used with a Safety Watchman with constant voice, visual or signal line communication. Employees will follow the established Emergency Response Program and/or Confined Space Entry Program when applicable.
- Management will establish and maintain surveillance of jobs and work place conditions and degree of Employee exposure or stress to maintain the proper procedures and to provide the necessary RPE.

SUBPART L - RESPIRATOR USER POLICIES

At Berry Bros., the Respirator Program is directed at specific work-site procedures where respirators are required to protect the health of its employees. Annual updates on the training shall be provided and more if deemed necessary. Adherence to the following guidelines will help ensure the proper and safe use of respiratory equipment:

- Only NIOSH-certified respirators shall be provided and used. Any exposure shall be analyzed to evaluate the hazard(s) that the worker may be exposed to. (Contaminant physical form? Chemical state?)



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- Wear only the respirator you have been instructed to use. For example, do not wear a self-containing breathing apparatus if you have been assigned and fitted for a half-mask respirator.
- Wear the correct respirator for the particular hazard. For example, some situations, such as chemical spills or other emergencies, may require a higher level of protection than your respirator can handle. Also, the proper cartridge must be matched to the hazard (a cartridge designed for dusts and mists will not provide protection for chemical vapors)
- Check the respirator for a good fit before each use. Positive and negative fit checks should be conducted.
- Check the respirator for deterioration before and after use. Do not use a defective respirator.
- Recognize indications that cartridges and canisters are at their end of service. If in doubt, change the cartridges or canisters before using the respirator.
- Practice moving and working while wearing the respirator so that you can get used to it.
- Clean the respirator after each use, thoroughly dry it and place the cleaned respirator in a sealable plastic bag.
- Store respirators carefully in a protected location away from excessive heat, light, and chemicals.
- Things that affect the seal must be prohibited and include facial hair, glasses, etc. The program requires that the seal be checked each time the respirator unit is employed.
- This program addresses that outside standby persons maintaining communication, proper training and equipment, notification procedures, and necessary action for IDLH atmospheres.

SUBPART M - SELECTION OF RESPIRATORS

The Company has evaluated the respiratory hazard(s) in each workplace, identified relevant workplace and user factors and has based respirator selection on these factors. Also included are estimates of employee exposures to respiratory hazard(s) and an identification of the contaminant's chemical state and physical form. This selection has included appropriate protective respirators for use in IDLH atmospheres, and has limited the selection and use of air-purifying respirators. All selected respirators are NIOSH-certified.



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Filter Classifications - These classifications are marked on the filter or filter package:

N-Series: Not Oil Resistant

- Approved for non-oil particulate contaminants.
- Examples: dust, fumes, mists not containing oil.

R-Series: Oil Resistant

- Approved for all particulate contaminants, including those containing oil.
- Examples: dusts, mists, fumes.
- Time restriction of 8 hours when oils are present.

P-Series: Oil Proof

- Approved for all particulate contaminants including those containing oil.
- Examples: dust, fumes, mists.
- See Manufacturer's time use restrictions on packaging.

Respirators for IDLH Atmospheres

The following respirators will be used in IDLH atmospheres:

- A full-face pressure demand SCBA certified by NIOSH for a minimum service life of thirty minutes.
- A combination full-face pressure demand supplied-air respirator (SAR) with auxiliary self-contained air supply.
- Respirators provided only for escape from IDLH atmospheres shall be NIOSH-certified for escape from the atmosphere in which they will be used.

Respirators for atmospheres that are not IDLH

The respirators selected shall be adequate to protect the health of the employee and ensure compliance with all other OSHA statutory and regulatory requirements, under routine and reasonably foreseeable emergency situations. The respirator selected shall be appropriate for the chemical state and physical form of the contaminant.



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SUBPART N - IDENTIFICATION OF FILTERS & CARTRIDGES

All filters and cartridges shall be labeled and color-coded with the NIOSH approval label and that the label is not removed and remains legible. A change out schedule for filters and canisters has been developed to ensure these elements of the respirators remain effective.

SUBPART O - RESPIRATOR FILTER & CANISTER REPLACEMENT

An important part of the Respiratory Protection Program includes identifying the useful life of canisters and filters used on air-purifying respirators

Filter & Cartridge Change Schedule

A stock of spare filters and cartridges shall be maintained to allow immediate change when required or desired by the employee.

Cartridges shall be changed based on the most limiting factor below:

- Prior to expiration date.
- Manufacturer's recommendations for use and environment.
- After each use.
- When requested by employee.
- When contaminate odor is detected.
- When restriction to air flow has occurred as evidenced by increase effort by user to breathe normally.
- Cartridges shall remain in their original sealed packages until needed for immediate use.

Filters shall be changed based on the most limiting factor below:

- Prior to expiration date.
- Manufactures recommendations for the specific use and environment.
- When requested by employee.
- When contaminate odor is detected.
- When restriction to air flow has occurred as evidenced by increase effort by user to breathe normally.



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- When discoloring of the filter media is evident.
- Filters shall remain in their original sealed package until needed for immediate use.

SUBPART P - PHYSICAL AND MEDICAL QUALIFICATIONS

Records of medical evaluations must be retained and made available in accordance with 29 CFR 1910.1020.

Medical evaluation

Using a respirator may place a physiological burden on employees that varies with the type of respirator worn, the job and workplace conditions in which the respirator is used, and the medical status of the employee. The company provides a medical evaluation to determine the employee's ability to use a respirator, before the employee is fit tested or required to use the respirator in the workplace.

Medical evaluation procedures

The designated Occupational Health Care Provider will provide the employee a medical questionnaire.

Follow-up medical examination

The company shall ensure that a follow-up medical examination is provided for an employee who gives a positive response to any question among questions in Part B of the questionnaire or whose initial medical examination demonstrates the need for a follow-up medical examination. The follow-up medical examination shall include any medical tests, consultations, or diagnostic procedures that the Physician deems necessary to make a final determination.

Administration of the medical questionnaire and examinations

The medical questionnaire and examinations shall be administered confidentially during the employee's normal working hours or at a time and place convenient to the employee. The medical questionnaire shall be administered in a manner that ensures that the employee understands its content. The company shall provide the employee with an opportunity to discuss the questionnaire and examination results with the Physician.



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Supplemental information for the Physician

The following information must be provided to the Physician before the Physician makes a recommendation concerning an employee's ability to use a respirator.

- The type and weight of the respirator to be used by the employee
- The duration and frequency of respirator use (including use for rescue and escape).
- The expected physical work effort.
- Additional protective clothing and equipment to be worn.
- Temperature and humidity extremes that may be encountered.
- Any supplemental information provided previously to the Physician regarding an employee need not be provided for a subsequent medical evaluation if the information and the Physician remain the same.

The Company has provided the Physician with a copy of the written respiratory protection program.

Medical Determination

In determining the employee's ability to use a respirator, the Company shall:

- Obtain a written recommendation regarding the employee's ability to use the respirator from the Physician. The recommendation shall provide only the following information.
 - Any limitations on respirator use related to the medical condition of the employee, or relating to the workplace conditions in which the respirator will be used, including whether or not the employee is medically able to use the respirator.
 - The need, if any, for follow-up medical evaluations.
 - A statement that the Physician has provided the employee with a copy of the Physician's written recommendation.
 - If the respirator is a negative pressure respirator and the Physician finds a medical condition that may place the employee's health at increased risk if the respirator is used, the Company shall provide a air purifying respirator (APR) if the Physician's medical evaluation finds that the employee can use such a respirator; if a subsequent



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medical evaluation finds that the employee is medically able to use a negative pressure respirator, then the Company is no longer required to provide a APR.

Additional Medical Evaluations

At a minimum, the Company shall provide additional medical evaluations that comply with the requirements of this section if:

- An employee reports medical signs or symptoms that are related to ability to use a respirator.
- A Physician, supervisor, or the respirator program administrator informs the Company that an employee needs to be reevaluated.
- Information from the respiratory protection program, including observations made during fit testing and program evaluation, indicates a need for employee reevaluation.
- A change occurs in workplace conditions (e.g., physical work effort, protective clothing, and temperature) that may result in a substantial increase in the physiological burden placed on an employee.

SUBPART Q - RESPIRATOR FIT TESTING

Before an employee is required to use any respirator with a negative or positive pressure tight-fitting face piece, the employee must be fit tested with the same make, model, style, and size of respirator that will be used. Berry Bros. shall ensure that an employee using a tight-fitting face piece respirator is fit tested prior to initial use of the respirator, whenever a different respirator face piece (size, style, model or make) is used, and at least annually thereafter. Testing is performed at the company approved physician offices.

Berry Bros. has established a record of the qualitative and quantitative fit tests administered to employees including:

- The name or identification of the employee tested.
- Type of fit test performed.
- Specific make, model, style, and size of respirator tested.
- Date of test.



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- The pass/fail results for Qualitative Fit Test (QLFT) or the fit factor and strip chart recording or other recording of the test results for Quantitative Fit Test (QNFT).

Additional fit tests will be conducted whenever the employee reports, or the Company, Physician, supervisor, or program administrator makes visual observations of, changes in the employee's physical condition that could affect respirator fit. Such conditions include, but are not limited to, facial scarring, dental changes, cosmetic surgery, or an obvious change in body weight.

If after passing a QLFT or QNFT, the employee notifies the Company, program administrator, supervisor, or Physician that the fit of the respirator is unacceptable; the employee shall be given a reasonable opportunity to select a different respirator face piece and to be retested.

SUBPART R - TYPES OF FIT TESTS

The fit test shall be administered using an OSHA-accepted QLFT or QNFT protocol. The OSHA-accepted QLFT and QNFT protocols and procedures are contained in Appendix A of OSHA Standard 1910.134.

Fit test records shall be retained for respirator users until the next fit test is administered. Written materials required to be retained shall be made available upon request to affected employees.

SUBPART S - RESPIRATOR OPERATION AND USE

Respirators will only be used following the respiratory protection safety procedures established in this program and the manufacturers recommendations.

Surveillance by the direct supervisor shall be maintained of work area conditions and degree of employee exposure or stress. When there is a change in work area conditions or degree of employee exposure or stress that may affect respirator effectiveness, the Company shall reevaluate the continued effectiveness of the respirator.

For continued protection of respirator users, the following general use rules apply:



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- Users shall not remove respirators while in a hazardous environment.
- Respirators are to be stored in sealed containers out of harmful atmospheres.
- Store respirators away from heat and moisture.
- Store respirators such that the sealing area does not become distorted or warped.
- Store respirator such that the face piece is protected.

Face piece seal protection

The Company does not permit respirators with tight-fitting face pieces to be worn by employees who have:

- Facial hair that comes between the sealing surface of the face piece and the face or that interferes with valve function.
- Any condition that interferes with the face-to-face piece seal or valve function.

If an employee wears corrective glasses or goggles or other personal protective equipment, the Company shall ensure that such equipment is worn in a manner that does not interfere with the seal of the face piece to the face of the user.

Continuing Effectiveness of Respirators

The Company shall ensure the following when employees leave the respirator use area:

- To wash their faces and respirator face pieces as necessary to prevent eye or skin irritation associated with respirator use.
- If they detect vapor or gas breakthrough, changes in breathing resistance, or leakage of the face piece.
- To replace the respirator or the filter, cartridge, or canister elements.

If the employee detects vapor or gas breakthrough, changes in breathing resistance, or leakage of the face piece, the Company will replace or repair the respirator before allowing the employee to return to the work area.

SUBPART T - PROCEDURES FOR IDLH ATMOSPHERES

For all IDLH atmospheres, the Company shall ensure that:



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- One employee or, when needed, more than one employee is located outside the IDLH atmosphere.
- Visual, voice, or signal line communication is maintained between the employee(s) in the IDLH atmosphere and the employee(s) located outside the IDLH atmosphere.
- The employee(s) located outside the IDLH atmosphere are trained and equipped to provide effective emergency rescue.
- Berry Bros. or its designee is notified before the employee(s) located outside the IDLH atmosphere enter the IDLH atmosphere to provide emergency rescue.
- Berry Bros. or designee authorized to do so by the Company, once notified, provides necessary assistance appropriate to the situation.

Employee(s) located outside the IDLH atmospheres will be equipped with:

- Pressure demand or other positive pressure SCBA's, or a pressure demand or other positive pressure supplied-air respirator with auxiliary SCBA; and either.
 - Appropriate retrieval equipment for removing the employee(s) who enter(s) these hazardous atmospheres where retrieval equipment would contribute to the rescue of the employee(s) and would not increase the overall risk resulting from entry.
 - Equivalent means for rescue where retrieval equipment is not required.

SUBPART U - CLEANING AND DISINFECTING

Berry Bros. shall provide each respirator user with a respirator that is clean, sanitary, and in good working order.

The respirators shall be cleaned and disinfected when

- Respirators issued for the exclusive use of an employee shall be cleaned and disinfected as often as necessary to be maintained in a sanitary condition.
- Respirators issued to more than one employee shall be cleaned and disinfected before being worn by different individuals.



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- Respirators maintained for emergency use shall be cleaned and disinfected after each use.
- Respirators used in fit testing and training shall be cleaned and disinfected after each use.

Cleaning and Storage of respirators assigned to specific employees is the responsibility of that Employee.

SUBPART V - RESPIRATOR INSPECTION

All respirators/SCBA's, both available for "General Use" and those on "Permanent Check-out", will be inspected after each use and at least monthly. Should any defects be noted, the respirator/SCBA will be taken to the person in charge (PIC). Damaged Respirators will be either repaired or replaced. The inspection of respirators loaned on "Permanent Checkout" is the responsibility of that trained Employee.

Respirators shall be inspected as follows:

- All respirators used in routine situations shall be inspected before each use and during cleaning.
- All respirators maintained for use in emergency situations shall be inspected at least monthly and in accordance with the manufacturer's recommendations, and shall be checked for proper function before and after each use.
- Emergency escape-only respirators shall be inspected before being carried into the workplace for use.

Respirator inspections include the following:

- A check of respirator function, tightness of connections, and the condition of the various parts including, but not limited to, the face piece, head straps, valves, connecting tube, and cartridges, canisters or filters.
- Check of elastomeric parts for pliability and signs of deterioration.
- Self-contained breathing apparatus shall be inspected monthly. Air and oxygen cylinders shall be maintained in a fully charged state and shall be recharged when the pressure falls to 90% of the manufacturer's recommended pressure level. The Company shall determine that the regulator and warning devices function properly.



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For Emergency Use Respirators the additional requirements apply:

- Certify the respirator by documenting the date the inspection was performed, the name (or signature) of the person who made the inspection, the findings, required remedial action, and a serial number or other means of identifying the inspected respirator.
- Provide this information on a tag or label that is attached to the storage compartment for the respirator, is kept with the respirator, or is included in inspection reports stored as paper or electronic files. This information shall be maintained until replaced following a subsequent certification.

Respirators are to be stored as follows:

- All respirators shall be stored to protect them from damage, contamination, dust, sunlight, extreme temperatures, excessive moisture, and damaging chemicals, and they shall be packed or stored to prevent deformation of the face piece and exhalation valve.

Emergency Respirators shall be:

- Kept accessible to the work area.
- Stored in compartments or in covers that are clearly marked as containing emergency respirators.
- Stored in accordance with any applicable manufacturer instructions.

SUBPART W - REPAIR OF RESPIRATORS

Respirators that fail an inspection or are otherwise found to be defective will be removed from service to be discarded repaired or adjusted in accordance with the following procedures:

- Repairs or adjustments to respirators are to be made only by persons appropriately trained to perform such operations and shall use only the respirator manufacturer's NIOSH-approved parts designed for the respirator.
- Repairs shall be made according to the manufacturer's recommendations and specifications for the type and extent of repairs to be performed.



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- Reducing and admission valves, regulators, and alarms shall be adjusted or repaired only by the manufacturer or a technician trained by the manufacturer.

SUBPART X - BREATHING AIR QUALITY AND USE

The Company shall ensure that compressed air, compressed oxygen, liquid air, and liquid oxygen used for respiration accords with the following specifications:

- Compressed and liquid oxygen shall meet the United States Pharmacopoeia requirements for medical or breathing oxygen.
- Compressed breathing air shall meet at least the requirements for Grade D breathing air described in ANSI/Compressed Gas Association Commodity Specification for Air, G-7.1-1989, to include:
 - Oxygen content (v/v) of 19.5-23.5%.
 - Hydrocarbon (condensed) content of 5 milligrams per cubic meter of air or less.
 - Carbon monoxide (CO) content of 10 ppm or less;
 - Carbon dioxide content of 1,000 ppm or less; and
 - Lack of noticeable odor.
- Compressed oxygen will not be used in atmosphere-supplying respirators that have previously used compressed air.
- Oxygen concentrations greater than 23.5% are used only in equipment designed for oxygen service or distribution.
- Cylinders used to supply breathing air to respirators meet the following requirements.
- Cylinders are tested and maintained as prescribed in the Shipping Container Specification Regulations of the Department of Transportation (49 CFR part 173 and part 178)
- Cylinders of purchased breathing air have a certificate of analysis from the supplier that the breathing air meets the requirements for Grade D breathing air.
- Moisture content in breathing air cylinders does not exceed a dew point of -50 deg. F (-45.6 deg. C) at 1 atmosphere pressure



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- Breathing air couplings are incompatible with outlets for non-respirable worksite air or other gas systems. No asphyxiating substance shall be introduced into breathing air lines.
- Breathing gas containers shall be marked in accordance with the NIOSH respirator certification standard, 42 CFR part 84.

ATTACHMENTS:

Appendix B-2 Cleaning
Appendix C Medical Questionnaire

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Approved By: Joe Berry & Safety Committee

