

JAGUAR ENERGY SERVICES, LLC 310 N Parkerson Ave Crowley, LA 70526	Respiratory Protection Plan
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Reviewed By: Jared Monk	Date: 01/10/2022

Section 44.0 RESPIRATORY PROTECTION PLAN

A. Purpose

JAGUAR ENERGY SERVICES, LLC is committed to protect the health and well being of all of its employees.

1. With this in mind we have developed and implemented a Respiratory Protection Plan with worksite-specific procedures and elements for respirator use. The purpose of this procedure is to provide guidance for employees who perform work that requires the use of respiratory protection, including emergency escape packs, which complies with OSHA 29 CFR 1910.134.

B. Scope

This procedure applies to all **JAGUAR ENERGY SERVICES, LLC** and customer work sites that require the use of respiratory protection.

1. This procedure is intended to address respirator selection criteria, requirements for inspection, maintenance and repair, and storage of respiratory protection.
2. Respirator protection training, medical evaluations, and fit testing must be completed to qualify an employee to wear a respirator.
3. Any employee required to wear a respirator must comply with the provisions of this procedure.

C. Responsibilities

1. The Safety Coordinator is responsible for all respirator users. He supports the Respiratory Protection Program and has designated the Safety Director as the Program Administrator.
 - (a) Additional responsibilities include:
 - (i) Monitor the implementation of this Policy.
 - (ii) Conduct assessments to verify the effectiveness of the program.

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2. The Safety Director has been named as the Respiratory Protection Program Administrator for **JAGUAR ENERGY SERVICES, LLC**.
 - (a) The Safety Director is qualified by appropriate training and experience to understand and implement all facets of the Respiratory Program.
 - (b) He has the authority to make decisions.
 - (c) He will be the custodian of the respiratory protective equipment and will supervise the implementation of each program element.
 - (d) Additional responsibilities include:
 - (i) Ensuring that all personnel who are included in this program have been trained on respiratory protection, medically evaluated, and fit tested prior to using a respirator.
 - (ii) Perform the duties of the Industrial Hygienist.
 - (i) He may designate other employees to assist in the implementation of this program.
 - (iii) Maintain an awareness of the current regulatory requirements and good practices.
 - (iv) Monitoring respiratory hazards
 - (v) Maintaining records
 - (vi) Conduction program evaluations.
 - (vii) Providing the required training on this procedure.
 - (viii) Selecting specific types and purchasing the necessary equipment.
 - (ix) Issuing respiratory protection devices to the employees as necessary.
 - (x) Notifying the Safety Coordinator anytime an employee is required to wear a respirator.
 - (xi) Establishing **JAGUAR ENERGY SERVICES, LLC** respiratory protection medical evaluation protocol.
 - (xii) Designating approved physicians or other licensed health care providers to perform medical evaluations.

3. The Supervisor is responsible for providing assistance in the implementation of this policy.
 - (a) Additional responsibilities include:
 - (i) Help determine which work areas would require respiratory protection under this procedure.

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- (ii) Monitoring all projects requiring respirators for compliance.

4. JAGUAR ENERGY SERVICES, LLC personnel are responsible for using the correct respirator for the job as required by this procedure.

- (a) Additional responsibilities include:
 - (i) Maintaining, inspecting, cleaning, and storing respiratory protection equipment as described in this procedure.
 - (ii) Undergoing medical evaluations initially and annually when assigned to a job that requires the use of a respirator including an emergency respirator.
 - (i) Employees must be medically qualified to wear a respirator prior to fit testing.
 - (iii) Undergoing fit testing prior to assignment to a job that requires the use of a tight fitting respirator.
 - (iv) Immediately report any defects in the respiratory protection equipment.
 - (v) Immediately evacuate to a safe area and report the problem whenever there is a respirator malfunction.
 - (vi) Promptly report to the Program Administrator any symptoms of illness that may be related to respirator usage or exposure to hazardous atmospheres.
 - (vii) Report any health concerns related to respirator use or changes in health status to the Program Administrator.
 - (viii) Wash their assigned reusable respirators at least weekly.
 - (ix) Store respirators in accordance with instructions received.
 - (x) Observe any restrictions placed on work activities by the Program Administrator.
 - (xi) Be clean shaven in all facial areas that seal to the respirator face piece.
 - (xii) Allow no headpieces, band-aids, or other items beneath a respirator seal or headstrap assembly.
 - (xiii) Inspect the respirator immediately before each use, in accordance with training provided.

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- (xiv) Perform a user seal negative and positive respirator fit check, each time a respirator is donned in accordance with training provided.

D. Procedure

JAGUAR ENERGY SERVICES, LLC has established and will maintain the following respiratory protection program in accordance with applicable governmental regulations utilizing current state-of-the-art respiratory protection principles and applications.

NOTE

This written program will have many abbreviations that the reader may not know. All abbreviations are explained in detail in Appendix A of the program.

1. The Program Administrator is responsible to ensure that each respirator user under his/her supervision is currently approved for respirator use, including medical, fit testing, and training certifications.
 - (a) Employees with expired certifications shall not be permitted to work in hazardous atmospheres, or to voluntarily wear a respirator until their lapsed requirements are updated.
2. Acting as Program Administrator the Safety Director will initiate and approve a written Respiratory Protection Program for each operation that involves respirator use and ensure that:
 - (a) Any use of respirators by any employee is in accordance with this Respiratory Protection Program.
 - (i) Respirators provided are applicable and suited for the purpose intended.
3. A written Worksite-Specific Respiratory Protection Plan will be developed and implemented for each project that requires the use of respirators to protect the health of the worker.
 - (a) This plan will be reviewed and approved by the client's representative.
 - (i) Doing so will ensure that the Worksite-Specific Respiratory Protection Plan will be applicable with the client.
 - (b) Before the Worksite-Specific Respiratory Protection Plan is developed that the Safety Director or his/her qualified

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designee will conduct a hazard assessment of the work area. (Refer to ATTACHMENT L)

- (i) This will assure that the program will be updated on each project to protect the employees.
- (ii) Regular inspections will be conducted while each project is being worked on and any deficiencies will be corrected.
- (iii) This will ensure that employee compliance with the respirator program requirements is monitored.
- (c) Safety briefings on respiratory protection issues will be conducted and documented at the start of each new project or task that involves respiratory hazards for affected employees.
- (d) Respirators are provided to all employees when such equipment is necessary to protect the health of the employee.
- (e) Employee exposure will be monitored upon initial work in a potentially hazardous atmosphere, and whenever work conditions change that may affect employee exposure.
- (f) Employee exposure monitoring will be performed in accordance with Federal and State OSHA regulations.
 - (i) This will be accomplished by using generally accepted sampling techniques and analytical methods, including generally accepted quality assurance and control measures.
- (g) All findings will be reported to Dr. Marsh, **JAGUAR ENERGY SERVICES, LLC** MRO, within five days of receipt of analytical results from the laboratory.
- (h) Personnel performing any maintenance on the respiratory protection equipment have completed all recommended respirator manufacturer training prior to servicing respirators and their components.
- (i) Monthly and semi-annual inspections of each air purifying respirator issued by **JAGUAR ENERGY SERVICES, LLC** or maintained in its inventory is conducted and documented.
- (j) Compressed breathing air cylinders are hydrostatically tested on schedule.
- (k) Any defective respirators or parts are removed from service and tagged out.
 - (i) This equipment will be repaired or replaced in a timely manner.

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- (l) Maintenance and repairs of respiratory protection equipment are performed in accordance with the manufacturer's instructions.
- (m) An inventory of respirators and associated parts and equipment is maintained.
- (n) Respirators and associated parts are stored in a clean and secure area.
- (o) The proper type of respirators and equipment are issued to conform with the respirator plan or program.
- (p) Tests for compressed air quality and inspection of breathing air compressors are performed periodically.
- (q) Any complaints related to respirator use are promptly investigated and recorded, and any hazards corrected.
- (r) First Aid and medical treatment are provided and reported in accordance with **JAGUAR ENERGY SERVICES, LLC** procedures.
- (s) Any employee with lapsed or incomplete respirator clearances is prohibited to work in hazardous atmospheres.
- (t) Any restrictions imposed by the occupational physician on individual employees are enforced, including the need for corrective lenses.
- (u) Each respirator is physically checked prior to its assignment to an employee, to be sure that it is of the type specified in the written plan.
 - (i) This will also ensure that all personnel wearing respirators are properly protected.
- (v) Each affected employee is informed of the results of any exposure monitoring reports within one day of receiving such results.
 - (i) These reports must be documented in **JAGUAR ENERGY SERVICES, LLC** recordkeeping system.

4. **Engineering Control**

Proper PPE and respiratory equipment will be issued to the employees to use against harmful fumes, mists, gases, smokes, sprays, vapors, or oxygen deficient atmospheres when conditions are temporary, engineering control measures are not feasible or completely effective, during emergency situations with high exposure, or while engineering controls are being instituted.

- (a) This equipment shall be and used by each affected employee.
- (b) The primary objective shall be to prevent atmospheric contamination.

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- (c) This shall be accomplished, as far as is feasible, by accepted engineering control measures.
 - (i) For example, enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials.
- (d) When these hazardous atmospheres are recognized, elimination of hazardous material or feasible engineering and work practice controls shall be instituted to reduce contaminant levels to within allowable limits.
- (e) Respirators shall be issued by the Program Administrator and worn by exposed employees whenever airborne contamination levels are not otherwise reduced to within the allowable limits.
- (f) The Program Administrator will provide an appropriate spectacle kit to each respirator wearer who requires corrective lenses and will pay for prescription safety lenses for the kit initially and as needed.
- (g) Contact lenses shall be permitted if the employee's ophthalmologist or optometrist authorizes their use by the employee in hazardous atmospheres with negative pressure and positive pressure respirators, in a written communication to the Program Administrator.
- (h) Respirators will be provided by **JAGUAR ENERGY SERVICES, LLC**, at no cost to the employee, where engineering controls do not reduce atmospheric contamination to acceptable levels for:
 - (i) Maintenance
 - (ii) Operations
 - (iii) Spills
 - (iv) Leaks
 - (v) Fires, explosions
 - (vi) Other emergencies.
- (i) **JAGUAR ENERGY SERVICES, LLC** shall provide the respirators which are applicable and suitable for the purpose intended.
- (j) **JAGUAR ENERGY SERVICES, LLC** shall provide the respirators, training, and medical evaluations at no cost to the employee.

5. Voluntary Use of Respirators

A Field Employee may choose to wear a respirator, even though it is not required.

- (a) This is permissible provided the respirator does not create a hazard for the employee.

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- (b) Even though this is voluntary use of a respirator, the employee must:
 - (i) Be medically able to wear a respirator and provide evidence that they have been medically evaluated and qualified to wear a respirator.
 - (ii) Ensure that their respirator is worn, cleaned, and stored properly.
- (c) If the Program Administrator determines that any voluntary respirator use is permissible, **JAGUAR ENERGY SERVICES, LLC** will:
 - (i) Provide the respirator users with the information contained in Appendix E to this program ("Information for Employees Using Respirators When Not Required Under the Standard").
 - (ii) Establish and implement those elements of a written respiratory protection program necessary to ensure that any employee using a respirator voluntarily is medically able to use that respirator.
 - (iii) That the respirator is cleaned, stored, and maintained so that its use does not present a health hazard to the user.
- (d) **JAGUAR ENERGY SERVICES, LLC** is not required to include in a written respiratory protection program to those employees whose only use of respirators involves the voluntary use of filtering facepieces (dust masks).

6. **Breathing Air Quality and Use**

JAGUAR ENERGY SERVICES, LLC will provide employees using atmosphere-supplying respirators (supplied-air and SCBA) with only D quality breathing air.

- (a) **JAGUAR ENERGY SERVICES, LLC** will ensure that compressed air, compressed oxygen, liquid air, and liquid oxygen (used for respiration) accords with the following specifications:
 - (i) Compressed and liquid oxygen shall meet the United States Pharmacopoeia requirements for medical or breathing oxygen.
 - (ii) 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:

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- (i) Oxygen content (v/v) of 19.5-23.5%
 - (ii) Hydrocarbon (condensed) content of 5 milligrams per cubic meter of air or less
 - (iii) Carbon monoxide (CO) content of 10 ppm or less
 - (iv) Carbon dioxide content of 1,000 ppm or less
 - (v) Lack of noticeable odor.
- (b) That compressed oxygen is not used in atmosphere-supplying respirators that have previously used compressed air.
- (c) That oxygen concentrations greater than 23.5% are used only in equipment designed for oxygen service or distribution.
- (d) That cylinders used to supply breathing air to respirators meet the following requirements:
 - (i) That 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).
 - (ii) That 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.
 - (iii) That the moisture content in the cylinder does not exceed a dew point of -50 deg.F (-45.6 deg.C) at 1 atmosphere pressure.
 - (iv) **JAGUAR ENERGY SERVICES, LLC** will ensure that compressors used to supply breathing air to respirators are constructed and situated so as to:
 - (i) In a clean atmosphere to prevent entry of contaminated air into the air-supply system.
 - (ii) Minimize moisture content so that the dew point at 1 atmosphere pressure is 10 degrees F (5.56 deg.C) below the ambient temperature.
 - (iii) Have suitable in-line air-purifying sorbent beds and filters to further ensure breathing air quality.

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- (iv) Sorbent beds and filters shall be maintained and replaced or refurbished periodically following the manufacturer's instructions.
- (e) Have a tag containing the most recent change date and the signature of the person authorized by the employer to perform the change.
 - (i) The tag shall be maintained at the compressor.
- (f) For compressors that are not oil-lubricated **JAGUAR ENERGY SERVICES, LLC** will ensure that carbon monoxide levels in the breathing air do not exceed 10 ppm.
- (g) For oil-lubricated compressors, **JAGUAR ENERGY SERVICES, LLC** will use a high-temperature or carbon monoxide alarm, or both, to monitor carbon monoxide levels.
 - (i) If only high-temperature alarms are used, the air supply shall be monitored frequently to prevent carbon monoxide in the breathing air from exceeding 10 ppm.
- (h) Fittings will be incompatible for non-respirable gases and containers.

7. **Respiratory Protection Program and Worksite-Specific Respiratory Protection Plan**

A written Worksite-Specific Respiratory Protection Program and Worksite-Specific Respiratory Protection Plan shall be prepared and approved by the Program Administrator prior to any employee respirator use, including voluntary usage or emergency use.

- (a) This plan may be a part of a job hazard analysis, site safety plan, confined space entry permit, or other document and shall contain:
 - (i) Identification of locations and tasks.
 - (ii) An identification of the atmospheric hazard(s).
 - (iii) The respective measured or expected concentration(s) at each location or operation.
 - (iv) The respective allowable concentration limits, type of respirator(s) approved, and monitoring requirements.
 - (v) The appropriate respirator type to be used.
 - (vi) Any limitations such as air monitoring, respirator cartridge change out frequency, etc.
 - (vii) The emergency response procedures, and limitations, such as the frequency of respirator cartridge change-out.

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- (viii) This procedure will be compatible with the client's plan.
 - (b) This document shall be updated annually and more frequently if conditions change.
 - (i) This document shall be available at the job location and shall be maintained for 30 years as an exposure record.
 - (i) Attachment H is an example and is presented in the Worksite-Specific Respiratory Protection Plan.
 - (c) Any **JAGUAR ENERGY SERVICES, LLC** Emergency Response Plan required for chemical spills or releases, fire response, pathogen exposures, etc., shall include a Respiratory Protection Program and Worksite-Specific Respiratory Protection Plan whenever there is a reasonable potential for a respiratory hazard.
 - (i) If an emergency plan calls for complete employee evacuation and no **JAGUAR ENERGY SERVICES, LLC** employee is assigned response activities, a plan is not required as a component.

8. Program Evaluation

The Program Administrator will periodically assess the effectiveness of this program and **JAGUAR ENERGY SERVICES, LLC** will:

- (a) Conduct evaluations of the workplace to ensure that the written respiratory protection program is being properly implemented.
- (b) Conduct evaluations of the workplace as necessary to ensure that the provisions of the current written programs are being effectively implemented and that it continues to be effective.
- (c) Regularly consult employees required to use respirators to assess the employees' views on program effectiveness and to identify any problems.
- (d) Any problems that are identified during this assessment shall be corrected.
- (e) Employees must be ask about factors used to assess the program, which include, but are not limited to:
 - (i) Respirator fit (including the ability to use the respirator without interfering with effective workplace performance).
 - (ii) Appropriate respirator selection for the hazards to which the employee is exposed.

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- (iii) Proper respirator use under the workplace conditions the employee encounters.
- (iv) Proper respirator maintenance.
- (f) The program shall be updated as necessary to reflect those changes in workplace conditions that affect respirator use.

9. **Recognition and Evaluation of Contaminates**

Hazard assessments have been initially performed and evaluated in representative workplace areas, by the Program Administrator or his/her designee.

- (a) Where the presence or potential presence of airborne contaminants is recognized or suspected, the Program Administrator shall perform evaluations to determine if allowable limits are exceeded.
 - (i) The results of this evaluation will be used to estimate the exposures and contaminant information.
- (b) It was determined by the hazard assessment evaluation that the following respiratory hazards could exist.
 - (i) H₂S
 - (ii) O₂ Deficiency
 - (iii) Sandblasting Dust (Silica)
 - (iv) Toxic Vapors (Paint and Solvent Fumes)
- (c) This hazard assessment evaluation addresses:
 - (i) Estimate of employee exposures to, the I. D. of contaminant's chemical physical form and chemical state.
 - (ii) The appropriate Material Safety Data Sheet (MSS) has been reviewed to ensure the respirator provides adequate protection.
 - (iii) An identification of user factors that affect respirator performance and reliability as well as the limits of protection in the use of all respirators.
- (d) If this is not done in any work area, exposures will be addressed as immediately Dangerous to Life and Health. (IDLH)
 - (i) Section (d) only applies to IDLH atmospheres.
- (e) At no time, however briefly, shall a **JAGUAR ENERGY SERVICES, LLC** employee be exposed to contaminant levels that are more than three times the allowable 8-hour time-weighted average limits without respiratory protection.

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- (f) The results of the hazard assessment shall be communicated to Management and affected employees.
- (g) A written record of this assessment, including identification of the work area, the name of the assessor and the date of the assessment, shall be maintained for a period of 30 years if atmospheric hazards were identified.
- (h) If the person doing the evaluation cannot identify or reasonably estimate the employee exposure or if no assessment is done, the employer shall consider the atmosphere to be IDHL.
 - (i) Refer to Appendix H for assessment sheet.
- (i) The Program Administrator shall reassess the workplace when controls are instituted to measure their effectiveness in reducing employee exposure to hazardous atmospheres.
- (j) For workplaces in which the hazard assessment produces no findings of potential exposures, the Program Administrator or his/her designee shall monitor the workplace and request a hazard assessment whenever materials or processes change.
- (k) Whenever the hazard assessment identifies potential exposures to hazardous atmospheres, an annual reassessment shall be performed, unless a more frequent assessment is required by OSHA.
 - (i) In addition, the Program Administrator is responsible for requesting a reassessment whenever materials or processes change.

10. **Hazardous Atmospheres**

- (a) **JAGUAR ENERGY SERVICES, LLC** personnel must be familiar with work environments that require the use of respiratory protection.
 - (i) For this reason **JAGUAR ENERGY SERVICES, LLC** has performed IH sampling in all representative work areas.
- (b) Situations that require respiratory protection include:
 - (i) **Oxygen Deficient Atmospheres.**
 - (i) When assessing an atmosphere, it is important to understand that an oxygen deficient atmosphere can be caused by displacement of air by other gases and vapors, or by means of oxidation processes, such as fire, rusting, and aerobic bacteria, where the oxygen is consumed.

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- (ii) **Immediately Dangerous to Life or Health (IDLH) Atmospheres.**
 - (i) IDLH atmospheres can include oxygen deficient atmospheres, but also include atmospheres that contain certain contaminants in their IDLH concentrations.
 - (ii) IDLH atmospheres can include chemical asphyxiants, such as carbon monoxide or hydrogen sulfide.
 - (iii) These can be life threatening even though there is adequate oxygen, because they interfere with the body's ability to absorb the oxygen in the air.
- (iii) **Non-Compliant Atmospheres.** Atmospheres where contaminant concentrations exceed work place exposure limits.

11. **Selection and Issuance of Respirators**

Selection of the proper type of respirator is critical for maximum protection.

- (a) When a **JAGUAR ENERGY SERVICES, LLC** employee is assigned to wear a respirator, the Safety Director will request Dr. Marsh to evaluate and assist with proper selection.
- (b) The Safety Director will conduct exposure assessments as necessary to identify hazards, select, and provide respirators based on the potential exposure hazards that affect performance of the employees at the worksite.
- (c) The respirator shall be used in compliance with the conditions of its certification.
- (d) Various types of respirators have their own intended purpose and limitations.
 - (i) No single respirator is appropriate for all jobs.
- (e) There are two basic types of respiratory protection devices:
 - (i) Air purifying.
 - (ii) Air supplied

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12. Air Purifying Respirators

- (a) Air purifying type respirators rely on a mechanical filtering device (cartridge or canister) to clean contaminants from the air.
- (b) Each cartridge or canister will work only for certain types of contaminants.

13. If the air purifying respirator is to be used for protection against particulates (dusts, fumes, mists, fog, or smoke) then a HEPA filter would be required.

14. If the mass median aerodynamic diameter of the contaminant is at least 2 micrometers, then any filter certified for particulates by NIOSH may be used.

- (a) All filters, cartridges, and canisters must be color coded with the regulatory approval label.

15. Identification of Filters, Cartridges, and Canisters

JAGUAR ENERGY SERVICES, LLC will ensure that all filters, cartridges, and canisters used in the workplace are labeled and color coded with the NIOSH approval label and that the label is not removed and remains legible.

(a) Cartridge Types

- (i) DUSTS AND MISTS filter - Designed to protect against dusts and mists hazards generated from tasks such as machining, sanding, routing, drillings and grinding.

(i) Dust and mist filters may be used with other cartridges and

- (ii) BLACK cartridge - Designed to protect against low concentrations of organic vapors such as benzene, acetone, MEK, 1,1,1-trichloroethane, Stoddard solvent, styrene, toluene, xylene, and uncured epoxies.

- (iii) GREEN cartridges - Specifically designed to protect against low concentrations of ammonia gas.

- (iv) PURPLE cartridge - High efficiency particulate filter (HEPA) - Designed to protect against low concentrations of metal fumes and dusts such as cadmium, antimony, cobalt, beryllium, lead, zinc, and copper.

(i) For radionuclides, dust, ceramic fiber, fiberglass, and asbestos

- (v) WHITE cartridge - Designed for protection against not more than 10 ppm chlorine, 50

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- ppm hydrogen chloride, or 50 ppm sulfur dioxide.
 - (vi) YELLOW cartridge - Designed to protect against low concentrations of chlorine, sulfur dioxide (SO₂) and hydrogen chloride (HCl) and concentrations of sulfuric acid and hydrofluoric acid (HF) not exceeding 20 parts per million.
 - (i) Also sufficient for organic vapors not exceeding 1,000 ppm.
 - (vii) Multipurpose combination cartridges are also available and are color coded as indicated above to protect against multiple contaminants with low combined concentrations.
- (b) Air purifying respirators do not supply oxygen, therefore they cannot be used in an oxygen deficient atmosphere.
- (c) Proper fit is imperative with negative pressure type respirators, since there is the potential for contaminants to be drawn into the face-piece through openings in the face to face-piece seal.
- (d) Employees should do a fit check on tight-fitting respirators to ensure they have properly donned the respirator.
- (e) Employees must be fit tested on the same tight-fitting respirator (name brand, size, and product number) that they will be using prior to use.
- (f) The concentration of the contaminant must be assessed to ensure proper selection.
 - (i) This can be accomplished with actual testing or by estimates completed by the Safety Director.
 - (ii) If the concentration cannot be quantified or accurately estimated, then supplied air respirators are required.
- (g) If the air purifying respirator is to be used for protection against gases and/or vapors, the respirator must be equipped with an end-of-life-service indicator (ELSI).
- (h) If the respirator does not have an ELSI, then a cartridge/canister change schedule that is based on objective information or data that will ensure that canisters and cartridges are changed before the end of their service life.
 - (i) This change schedule must be implemented according to manufacturer recommendations.

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- (i) Conditions play a large part in the life of any filter/ cartridge such as humidity, environment, work location (Up-wind/down-wind), etc.
- (j) These Operating Time Lines are more than adequate to protect the user.

	<u>Unit</u>	<u>Replacement</u>
<u>Time Line</u>		
1.	Air Line Filter (Bullard 41 Series Model 41 P-2) (Note: If there is no sticker with the last change date on the unit,	Monthly Basis
change the filter.)		
2.	Organic Vapors /Acid Gases/P100	40 Paint
Hours		
3.	Organic Vapors Cartridge	40 Paint
Hours		
4.	Particulate Prefilter N95	Visual
Inspection		
5.	Blasting (Hood Bullard 88 Series Respirator)	Air Supplied

16. Atmospheres that are not IDLH

JAGUAR ENERGY SERVICES, LLC will provide a respirator that is adequate to protect the health of the employee and assure compliance with all other OSHA statutory and regulatory requirements, under routine and reasonably foreseeable emergency situations.

- (a) The respirator selected shall be appropriate for the chemical state and physical form of the contaminant.
- (b) For protection against gases and vapors **JAGUAR ENERGY SERVICES, LLC** will provide:
 - (i) An atmosphere-supplying respirator
 - (ii) An air-purifying respirator, provided that this/her respirator is equipped with an end-of-service-life indicator (ESL) certified by NIOSH for the contaminant.

17. If there is no ESL appropriate for conditions in the workplace, **JAGUAR ENERGY SERVICES, LLC** will implement a change schedule for canisters and cartridges that is based on objective information or data that will assure that canisters and cartridges are changed before the end of their service life.

18. This is described in the respirator program, the information and data relied upon, the basis for the canister and cartridge change schedule, and the basis for reliance on the data.

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19. For protection against particulates **JAGUAR ENERGY SERVICES, LLC** will provide:
 - (a) An atmosphere-supplying respirator
 - (b) An air-purifying respirator equipped with a filter certified by NIOSH under 30 CFR part 11, as a high efficiency particulate air (HEPA) filter, or an air-purifying respirator equipped with a filter certified for particulates by NIOSH under 42 CFR part 84.
 - (c) For contaminants consisting primarily of particles with mass median aerodynamic diameters (MMAD) of at least 2 micrometers, an air-purifying respirator equipped with any filter certified for particulates by NIOSH.

20. Selection of the appropriate respirator shall be documented in the written Respiratory Protection Program and Worksite-Specific Respiratory Protection Plan.
 - (a) If the atmosphere is uncharacterized, it must be assumed to be IDLH and a positive pressure SCBA or combination supplied-air respirator with SCBA must be worn.
 - (b) Respirator selection shall comply with OSHA requirements for specific substances, such as asbestos, lead, etc.

21. **Air Supplying Respirators**
 - (a) Air supplied respirators provide clean breathing quality air.
 - (b) Breathing quality air must meet Grade D requirements.
 - (c) Air supplied respirators can be used in IDLH atmospheres provided that they are:
 - (i) A NIOSH approved SCBA pressure demand or SAR type respirator with a 30 minute bottle.
 - (ii) An airline respirator in conjunction with a five minute escape bottle that is carried on the person.
 - (iii) An escape respirator that is hooded and is attached to a supplied air bottle which is carried by the person.
 - (iv) An example of this type of respirator is the five minute escape respirators required for escape from an accidental release of hydrogen sulfide (x-ref Hydrogen Sulfide Procedure).
 - (d) Air supplied respirators can be used for atmospheres that are not IDLH.

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- (i) They are required for atmospheres containing gases or vapors when the criteria for selecting and using an air and the basis for reliance on the data.

22. Respirators for IDLH atmospheres.

Respirators provided only for escape from IDLH atmospheres will be NIOSH-certified for escape from the atmosphere in which they will be used.

- (a) **JAGUAR ENERGY SERVICES, LLC** will provide the following respirators for employee use in IDLH atmospheres:
 - (i) A full facepiece pressure demand SCBA certified by NIOSH for a minimum service life of thirty minutes.
 - (ii) A combination full facepiece pressure demand supplied-air respirator (SAR) with auxiliary self-contained air supply.
- (b) All oxygen-deficient atmospheres will be considered IDLH.
- (c) If the person conducting the evaluation demonstrates that, under all foreseeable conditions, the oxygen concentration can be maintained within the ranges specified in Table I of this section (i.e., for the altitudes set out in the table), then any atmosphere-supplying respirator may be used.

23. JAGUAR ENERGY SERVICES, LLC requires that respirators be selected from a sufficient number of respirator models and sizes so that the respirator is acceptable to, and correctly fits the user.

24. Respiratory protective devices provided by **JAGUAR ENERGY SERVICES, LLC** must meet regulatory approval and in the U.S. must bear a NIOSH approval number.

25. No components shall be substituted unless they are approved by NIOSH.

- (a) Any changes or modifications to a respirator may void the respirator approval and may adversely affect its performance.

26. Any restrictions or limitations recommended for a particular respirator by the respirator manufacturer shall be observed.

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27. The National Institute of Occupational Safety and Health (NIOSH) respirator decision logic will be used as a guideline.

Refer to the logical sequence below for respirator selection.

1. **JAGUAR ENERGY SERVICES, LLC** will provide the following respirators for employee use in IDLH atmospheres:

- (a) Half Face Air Purifying Respirators

Manufacturer	North Safety Equipment
Body Model #	7700-30
Cartridge #	7500-B
Unit Approval #	TC-21-C-152
Or	
Manufacturer	Mine SafetyAppliance
Body Model #	COMF 11 466486
Cartridge #	464035
Unit Approval#	TC-21C-135

- (a) Full Face Air Purifying

Equipment

Manufacturer	North Safety
Body Modle#	7600-8S
Cartridge#	7500-8
Unit Approval#	TC-21C-171

Or

Manufacturer	3M
Body Modle #	7800
Cartridge#	7255
Approval#	TC-21C-265

- (b) Power Air Purifying Respirators (PAPR)

Manufacturer	Racal Airstream, Inc.
Body Model #	35-36-00
Cartridge #	09-00-20
Unit Approval#	TC-21C-353

Or

Manufacturer	International Safety Instruments, Inc.
Body Model #	Typhoon 703.005 01
Cartridge #	034.018.01
Unit Approval#	TC-21C-385

- (c) Type C Airline Respirator (Pressure Demand

Manufacturer	International Safety
Body Model #	707.141.00
Unit Approval#	TC-21C-21C-385

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2. **JAGUAR ENERGY SERVICES, LLC** requires that an employee can select the respirator he uses from a sufficient number of respirator models and sizes so that the respirator is acceptable to, and correctly fits, the user.
3. Individuals who wear corrective lenses and are required to wear a full face respirator may need to have permanently mounted lenses installed into the face-piece.
 - (a) Spectacle kits will be issued to employees who require corrective lenses with their respirators.
4. Cold weather can cause fogging in a full face-piece.
 - (a) A nose cup will help eliminate this problem.
 - (b) If voice communication is critical, special communication equipment may be available from the manufacturer.
5. Regardless of exposure level, employees who are exposed to any recognized carcinogen, mutagen, or teratogen in the performance of their work assignments may request and receive an appropriate respirator for voluntary use.
6. Affected employees already assigned a respirator may request a respirator that provides a higher protection factor than the one provided by **JAGUAR ENERGY SERVICES, LLC** for that work.
7. No employee may work alone while wearing a respirator.
 - (a) Each respirator wearer shall have at least one employee assigned responsibility to perform periodic status checks throughout the duration of respirator use.
 - (b) When SCBA's are worn, at least one standby person, located outside the hazardous atmosphere and equipped with an SCBA, shall be in constant attendance, ready to provide immediate assistance and to call for emergency help, if needed.
- .8 **JAGUAR ENERGY SERVICES, LLC** will provide the following respirators for employee use in IDLH atmospheres:
 - a. Half Face Air Purifying Respirators

Manufacturer
 Body Model #
 Cartridge #

North Safety Equipment
 7700-30
 7500-B

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	Unit Approval #	TC-21-C-152
	Manufacturer	Mine SafetyAppliance
	Body Model #	COMF 11 466486
	Cartridge #	464035
	Unit Approval#	TC-21C-135
	Or	
	a. Full Face Air Purifying	
	Manufacturer	North Safety
	Body Modle#	7600-8S
	Cartridge#	7500-8
	Unit Approval#	TC-21C-171
	Or	
	Manufacturer	3M
	Body Model #	7800
	Cartridge#	7255
	Approval#	TC-21C-265
	b. Power Air Purifying Respirators (PAPR)	
	Manufacturer	Racal Airstream, Inc.
	Body Model #	35-36-00
	Cartridge #	09-00-20
	Unit Approval#	TC-21C-353
	Or	
	Manufacturer	International Safety Instruments, Inc.
	Body Model #	Typhoon 703.005 01
	Cartridge #	034.018.01
	Unit Approval#	TC-21C-385
	c. Type C Airline Respirator (Pressure Demand	
	Manufacturer	International Safety
	Body Model #	707.141.00
	Unit Approval#	TC-21C-21C-385

.2 **JAGUAR ENERGY SERVICES, LLC** requires that an employee can select the respirator he uses from a sufficient number of respirator models and sizes so that the respirator is acceptable to, and correctly fits, the user.

.3 Individuals who wear corrective lenses and are required to wear a full face respirator may need to have permanently mounted lenses installed into the face-piece.

a. Spectacle kits will be issued to employees who require corrective lenses with their respirators.

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- .4 Cold weather can cause fogging in a full face-piece.
 - a. A nose cup will help eliminate this problem.
 - b. If voice communication is critical, special communication equipment may be available from the manufacturer.

- .5 Regardless of exposure level, employees who are exposed to any recognized carcinogen, mutagen, or teratogen in the performance of their work assignments may request and receive an appropriate respirator for voluntary use.

- .6 Affected employees already assigned a respirator may request a respirator that provides a higher protection factor than the one provided by **JAGUAR ENERGY SERVICES, LLC** for that work.

- .7 No employee may work alone while wearing a respirator.
 - a. Each respirator wearer shall have at least one employee assigned responsibility to perform periodic status checks throughout the duration of respirator use.
 - b. When SCBA's are worn, at least one standby person, located outside the hazardous atmosphere and equipped with an SCBA, shall be in constant attendance, ready to provide immediate assistance and to call for emergency help, if needed.

.8 PROTECTION FACTOR

The National Institute for Occupational Safety and Health, or **NIOSH**, and the Mine Safety and Health Association, **MSHA**, are the two bodies that certify respiratory protective equipment.

- a. Never use respiratory protective equipment that does not have a NIOSH/MSHA certification number.
- b. Each model has a complete certification number (TC-21C-201). The number begins with the letters **TC** followed by two digits, a letter, and a number composed of up to four digits.
 - 1. For example, the number TC-19C indicates a supplied-air respirator, TC-21C indicates a mechanical air-purifying respirator, and TC-23C indicates an air-purifying chemical cartridge respirator.
 - 2. For examples of respirator certification numbers verification sheets refer to Attachments B and C at the end of this section.

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- c. A respirator protection factor (PF) is the measure of protection provided by a respirator for the wearer.
- d. The maximum concentration of a substance in which a selected respirator can be used sometimes referred to as the maximum use level (mul), is calculated by multiplying either the PEL or maximum ceiling concentration by the PF of the respirator.
- e. Each type of respirator has limitations based on the protection factor, whether it is half face or full face, air supplied or negative pressure. Refer to the table below to select the respirator with the desired protection factor.

Respirator Type	Use in Oxygen Deficient Atmosphere	Use in IDLH Atmosphere	Protection Factor	Quantitative Fit Test Pass/Fail Level
Half-face negative pressure	No	No	10	100
Full-face negative pressure	No	No	50(1)	500
PAPR half-face	No	No	25	N/A
PAPR full-face	No	No	250	N/A
Air supplied welder half mask	No	No	1,000	N/A
Air supplied hood	No	No	2,000	N/A
Air supplied Full Face with 5 min. egress	Yes	Yes	10,000	N/A
SCBA (Pressure Demand)	Yes	Yes	10,000	N/A

N/A - Not applicable since a respirator fit test is not required

(1) - Or maximum limit of the cartridge for vapor or gas, whichever is less.

- a. At a minimum, the assigned protection factor of the selector's respirator shall equal or exceed the hazard ratio.

Table I - Assigned Protection Factors [Reserved]

Altitude (ft.)	Oxygen deficient Atmospheres (% O ₂) for which the employer may rely on atmosphere supplying respirators
Less than 3,001	16.0 - 19.5
3,001 - 4,000	16.4 - 19.5
4,001 - 5,000	17.1 - 19.5
5,001 - 6,000	17.8 - 19.5
6,001 - 7,000	18.5 - 19.5
7,001 - 8,000	19.3 - 19.5

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* Above 8,000 feet the exception does not apply. Oxygen-enriched breathing air must be supplied above 14,000 feet.

- .1 The Program Administrator will determine that the regulator and warning devices function properly.
- .2 **JAGUAR ENERGY SERVICES, LLC** will provide each respirator user with a respirator that is clean, sanitary, and in good working manner using procedures in Appendix or an equally effective manufacturer's procedure.
- .3 **Respirator Inspections**
 - a. All respirators used in routine situations shall be inspected before each use and during cleaning.
 1. All self-contained breathing apparatus shall be inspected at least monthly.
 - b. All respirators maintained for use in emergency situations shall be inspected at least monthly, in accordance with the manufacture's recommendations, and shall be checked for proper function before and after each use.
 - c. Emergency escape-only respirators shall be inspected before being carried into the workplace.
 - d. **JAGUAR ENERGY SERVICES, LLC** will certify all respirators use for both normal and emergency use by documenting:
 1. The date the inspection was performed.
 2. The name (or signature) of the person who made the inspection.
 3. The findings that required remedial action.
 4. A serial number or other means of identifying the inspected respirator. (Refer to ATTACHMENT K)
- .4 **Repairs and Maintenance**

A respirator will only provide protection if it is properly maintained with all components in good working order.

 - a. **JAGUAR ENERGY SERVICES, LLC** will ensure that respirators that fail an inspection or are otherwise found to be defective are removed from service, and are discarded or repaired or adjusted in accordance with the following procedures:
 1. The Program Administrator will be responsible for the maintenance and repair of respirators.

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- i. All respirators needing repairs will be sent to a certified third party shop for repair.
2. 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.
3. Repairs shall be made according to the manufacturer's recommendations and specifications for the type and extent of repairs to be performed.
4. Reducing and admission valves, regulators, and alarms shall be adjusted or repaired only by the manufacturer or a technician trained by the manufacturer.
5. Employees who are issued a respirator are responsible for its maintenance, daily inspection, and storage while the unit is in their control.
6. Air and oxygen cylinders will be maintained in a fully charged state, and will be recharged when the pressure falls to 90% of the manufacturer's recommended pressure level.

.5

Respirator Cleaning and Disinfecting

JAGUAR ENERGY SERVICES, LLC will ensure that respirators are cleaned and disinfected using the procedures specified by OSHA, as per Appendix F of this section, or procedures recommended by the respirator manufacturer, provided that such procedures are of equivalent effectiveness.

- a. The respirators shall be cleaned and disinfected at the following intervals:
 1. 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.
 2. Respirators issued to more than one employee shall be cleaned and disinfected before being worn by different individuals.
 3. Respirators maintained for emergency use shall be cleaned and disinfected after each use.
 4. Respirators used in fit testing and training shall be cleaned and disinfected after each use.

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5. Respirators that are shared must be cleaned and disinfected after each use.
6. When the respirator is individually assigned, the respirator must be cleaned and disinfected as often as necessary to keep it in sanitary condition.
7. Alcohol wipes should not be used because they can damage the rubber and plastic components.
8. Respirators should be disassembled and all components washed in warm water with a mild detergent.
9. When the cleaner used does not contain a disinfecting agent, use a solution that contains one milliliter of laundry bleach to one liter of water or about 0.8 milliliters of tincture of iodine to one liter of water.
10. All components should be rinsed and dried.

.6

Respirator Storage

JAGUAR ENERGY SERVICES, LLC will ensure that respirators are stored as follows:

- a. All respirators shall be packed or stored to protect them from:
 1. Damage
 2. Contamination
 3. Dust
 4. Sunlight
 5. Extreme temperatures
 6. Excessive moisture
 7. Damaging chemicals
 8. To prevent deformation of the facepiece and exhalation valve.
- b. In addition to the requirements listed above, emergency respirators shall be:
 1. Kept accessible to the work area.
 2. Stored in compartments or in covers that are clearly marked as containing emergency respirators.
 3. Stored in accordance with any applicable manufacturer instructions.

.7

Medical Evaluations

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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.

- a. **JAGUAR ENERGY SERVICES, LLC** personnel will be medically evaluated and qualified to determine whether the employee is physically able to wear a respirator prior to being fit tested and being assigned to wear a respirator.
- b. Personnel required to wear escape-only type respirators should also be medically evaluated on an annual basis.
- c. The medical questionnaire and examinations will be administered confidentially during the employee's normal working hours or at a time and place convenient to the employee.
- d. Medical records created under this program shall be handled in accordance with OSHA requirements for confidential employee access and retention.
- e. **JAGUAR ENERGY SERVICES, LLC** approved medical evaluation, respirator, and respirator training shall be paid for by **JAGUAR ENERGY SERVICES, LLC**.
 1. Other expenses including the employee's reasonable time and travel to participate in these procedures will also be paid by **JAGUAR ENERGY SERVICES, LLC**.

.8 **JAGUAR ENERGY SERVICES, LLC** will provide the employee with an opportunity to discuss the questionnaire and examination results with the PLHCP Dr. Brian Heinen.

.9 The medical questionnaire will be administered in a manner that ensures that the employee understands its content.

- a. The medical evaluation may be discontinued once the individual is no longer required to wear a respirator.

.10 The Safety Director is responsible for notifying the Safety Coordinator and the PLHCP Dr. Marsh of employees required to wear a respirator.

.11 **JAGUAR ENERGY SERVICES, LLC** has identified Dr. Brian Heinen or a PLHCP approved by them, to perform medical evaluations using a medical questionnaire or an initial medical

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examination that obtains the same information as the medical questionnaire.

a. This must be done at least annually.

- .12 In the event **JAGUAR ENERGY SERVICES, LLC** were to replace, add or change a PLHCP, **JAGUAR ENERGY SERVICES, LLC** will ensure that the new PLHCP obtains this information either by providing the documents directly to the PLHCP or having the documents transferred from the former PLHCP to the new PLHCP.
- .13 OSHA does not expect employers to have employees medically reevaluated solely because a new PLHCP has been selected.
- .14 The PLHCP shall be provided with:
- a. A copy of the employee's duties.
 - b. The type and weight of the respirator to be used by the employee.
 - c. Air contaminants.
 - d. The duration and frequency of respirator use (including use for rescue and escape).
 - e. The expected physical work effort and possible stress that may be encountered.
 - f. Additional protective clothing and equipment to be worn.
 - g. Temperature and humidity extremes that may be encountered.
- .15 **JAGUAR ENERGY SERVICES, LLC** will provide the PLHCP with a copy of the written respiratory protection program and the OSHA Respiratory Protection Program Standard.
- .16 In determining the employee's ability to use a respirator, **JAGUAR ENERGY SERVICES, LLC** will:
- a. Obtain a written recommendation regarding the employee's ability to use the respirator from the PLHCP.
 - b. The recommendation shall provide only the following information:
 1. 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.

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2. The need, if any, for follow-up medical evaluations.
 3. A statement that the PLHCP has provided the employee with a copy of the PLHCP's written recommendation.
 - c. The PLHCP'S approval shall be written certification that lists:
 1. The respirator types approved for use by the individual (i.e., negative pressure purifying, powered air purifying, pressure demand SCBA).
 2. Any restrictions on the employee's use of respiratory protection, including the need for corrective lenses.
- .17 The minimum requirements for medical evaluation that **JAGUAR ENERGY SERVICES, LLC** have put in place to determine the employee's ability to use a respirator are:
- a. The employer shall provide 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.
 - b. The employer may discontinue an employee's medical evaluations when the employee is no longer required to use a respirator.
- .18 The PLHCP'S certification shall not disclose any confidential medical information, but shall clearly list or describe any restrictions to be observed.
- a. A copy shall be provided to the Program Administrator.
- .19 Payment for special medical diagnostic procedures needed to assess the ability of an employee to safely wear a respirator shall be approved in advance by **JAGUAR ENERGY SERVICES, LLC**
- a. No medical treatment costs shall be paid under this plan.
- .20 **JAGUAR ENERGY SERVICES, LLC** The medical evaluation shall obtain the information requested by the questionnaire in Sections 1 and 2, Part A of Appendix H and I of this program.
- .21 **JAGUAR ENERGY SERVICES, LLC** will ensure that a follow-up medical examination is provided for an employee who gives a positive response to any question among questions 1 through 8 in

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Section 2, Part A of Appendix H, or whose initial medical examination demonstrates the need for a follow-up medical examination.

- a. Follow-up examinations will be provided:
 1. As deemed necessary by the PLHCP and **JAGUAR ENERGY SERVICES, LLC** doctor.
 2. If an employee experiences medical problems related to wearing the respirator.
 3. If an employee reports medical signs or symptoms that are related to his/her ability to use a respirator.
 4. If a PLHCP, supervisor, or the Program Administrator informs the employer that an employee needs to be reevaluated.
 5. If a change occurs in workplace conditions (e.g., physical work effort, protective clothing, temperature) that may result in a substantial increase in the physiological burden placed on an employee.
 6. If information from the respiratory protection program, including observations made during fit testing and program evaluation, indicates a need for employee evaluation.
- b. The follow-up medical examination shall include any medical tests, consultations, or diagnostic procedures that Dr. Marsh or the PLHCP deems necessary to make a final determination.
 1. Refer to Attachment G for an example form.
 2. Any supplemental information provided previously to the PLHCP regarding an employee need not be provided for a subsequent medical evaluation, if the information and the PLHCP remain the same.

.22 If the respirator is a negative pressure respirator and the PLHCP finds a medical condition that may place the employee's health at increased risk if the respirator is used, **JAGUAR ENERGY SERVICES, LLC** will provide a powered air purifying respirator (PAPR) if the PLHCP's medical evaluation finds that the employee can use such a respirator.

.23 If a subsequent medical evaluation finds that the employee is medically able to use a negative pressure respirator, then **JAGUAR**

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ENERGY SERVICES, LLC is no longer required to provide a PAPR.

.24 Fit Testing

A fit test is a procedure that determines either qualitatively or quantitatively that a respirator fits the person.

- a. Each respirator wearer shall be qualitative fit tested (QLFT) or quantitative fit tested (QNFT) as per OSHA Standards before the initial use of a respirator with a tight fitting face piece.
- b. The respirator wearer will be fit tested annually, using OSHA approved protocols as approved by the Program Administrator.
 1. The employee must be fit tested with the same make, model, style, and size of respirator that will be used.
 2. The employee will be fit tested any time he is required to use a different type of respirator.
 3. More frequent testing shall be performed if required by OSHA regulations for specific substances or if the wearer's facial contours change, such as by weight gain or loss, facial surgery, etc.
- c. When being fit tested, employees may choose their respirator from an array of at least five face pieces from different manufacturers and sizes approved by the Program Administrator.
- d. **JAGUAR ENERGY SERVICES, LLC** will ensure that employees using a tight-fitting face piece respirator pass an appropriate qualitative fit test (QLFT) or quantitative fit test (QNFT).
 1. In most cases the fit testing will be done by a qualified third party.
 2. The employee will be 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.
- e. If after passing a QLFT or QNFT, the employee subsequently notifies **JAGUAR ENERGY SERVICES, LLC** Program Administrator or PLHCP 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.
- f. The fit test shall be administered using an OSHA-accepted OLFT or QNFT protocol.

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1. The OSHA-accepted QLFT and QNFT protocols and procedures are contained in Appendix D of 29 CFR 1910.134.
 - g. QLFT may only be used to fit test negative pressure air-purifying respirators that must achieve a fit factor of 100 or less.
 - h. If the fit factor, as determined through an OSHA-accepted QNFT protocol, is equal to or greater than 100 for tight-fitting half face pieces, or equal to or greater than 500 for tight-fitting full face pieces, the QNFT has been passed with that respirator.
 - i. Fit testing of tight-fitting atmosphere-supplying respirators and tight-fitting powered air-purifying respirators will be accomplished by performing quantitative or qualitative fit testing in the negative pressure mode, regardless of the mode of operation (negative or positive pressure) that is used for respiratory protection.
 - j. Qualitative fit testing of these respirators will be accompanied by temporarily converting the respirator user's actual face piece into a negative pressure respirator with appropriate filters, or by using an identical negative pressure air-purifying respirator face piece with the same sealing surfaces as a surrogate for the atmosphere-supplying or powered air-purifying respirator face piece.
 - k. Quantitative fit testing of these respirators will be accomplished by modifying the face piece to allow sampling inside the face piece in the breathing zone of the user, midway between the nose and mouth.
 1. This requirement will be accomplished by installing a permanent sampling probe onto a surrogate face piece or by using a sampling adapter designed to temporarily provide a means of sampling air from inside the face piece.
- .25 In the event that any modifications are done to the respirator face piece for fit testing they shall be completely removed, and the face piece restored to NIOSH-approved configuration before that face piece can be used in the workplace.
- .26 **JAGUAR ENERGY SERVICES, LLC** will conduct an additional fit test whenever the employee reports, or **JAGUAR ENERGY SERVICES, LLC** PLHCP or Program Administrator makes visual

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observations of, changes in the employee's physical condition that could affect respirator fit.

- a. Such conditions include, but are not limited to:
 - 1. Facial scarring
 - 2. Dental changes
 - 3. Cosmetic surgery
 - 4. An obvious change in body weight

.27 Fit test certifications shall be prepared and signed by the person performing the fit test and must name:

- a. The tested employee.
- b. The make, model, and size of the respirator fit tested.
- c. The result of the fit test.

.28 A copy shall be provided to the Program Administrator.

.29 **JAGUAR ENERGY SERVICES, LLC** required fit tests, including reasonable employee time and travel costs, shall be paid for by **JAGUAR ENERGY SERVICES, LLC**

.30 SAR type respirators are required to be fit tested as well. (Refer to Appendices of the standard.)

.31 **Face Piece Seal Protection**

JAGUAR ENERGY SERVICES, LLC will not permit respirators with tight-fitting face pieces to be worn by employees who have:

- a. Facial hair that comes between the sealing surface of the face piece and the face, or that interferes with valve function.
- b. Any condition that interferes with the face-to-face piece seal or valve function.
- c. If an employee wears corrective glasses or goggles or other personal protective equipment, **JAGUAR ENERGY SERVICES, LLC** will 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.

.32 **Fit Checks**

A fit check is a method by which the employee ascertains that they have correctly donned their respirator.

- a. Fit checks must be performed each time an employee dons a tight-fitting respirator.

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- b. For all tight-fitting respirators **JAGUAR ENERGY SERVICES, LLC** will ensure that employees perform a user seal check each time they put on the respirator, using the procedures in Appendix E or procedures recommended by the respirator manufacturer that are equally as effective.
- c. A fit check can be completed using the following procedure.
 - 1. Don the respirator and tighten the straps until you feel you have a snug fit.
 - 2. Conduct a negative pressure check.
 - 3. Unscrew the cartridges and cover the inhalation ports with the palms of your hands and breathe in.
 - i. Sometimes a piece of paper, plastic, or glove can be used to help cover the inhalation valves, if they are too large for your hands.
 - 4. For canister respirators either cover the inhalation port on the canister or disconnect the canister and cover the inhalation port into the mask.
 - i. The respirator should collapse against your face.
- d. Conduct a positive pressure check.
 - 1. Cover the exhalation valve and breathe out. The respirator should fill, but should not lift off your face.
 - 2. If any of the fit check steps fail, readjust the straps and try again.
 - 3. If you still cannot pass a fit check, then you need a different face-piece.

.33

Monitoring Continuing Respirator Effectiveness

The Program Administrator shall maintain appropriate surveillance of all respirators, of work area conditions and degree of employee exposure or stress.

- a. When there is a change in work area conditions or degree of employee exposure or stress that may affect respirator effectiveness, **JAGUAR ENERGY SERVICES, LLC** will reevaluate the continued effectiveness of the respirator.
- b. **JAGUAR ENERGY SERVICES, LLC** will ensure that employees leave the respirator use area:

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1. To wash their faces and respirator face pieces as necessary to prevent eye or skin irritation associated with respirator use.
 2. If they detect vapor or gas breakthrough, changes in breathing resistance, or leakage of the face piece.
 3. To replace the respirator or the filter, cartridge, or canister elements.
- c. If the employee detects vapor or gas breakthrough, changes in breathing resistance, or leakage of the face piece, **JAGUAR ENERGY SERVICES, LLC** will replace or repair the respirator before allowing the employee to return to the work area.

.34 Procedures For IDLH Atmospheres

For all IDLH atmospheres, **JAGUAR ENERGY SERVICES, LLC** will ensure that:

- a. One employee, or when needed, more than one employee, is located outside the IDLH atmosphere as a stand by.
- b. 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.
- c. The employee(s) located outside the IDLH atmosphere are trained and equipped to provide effective emergency rescue.
- d. **JAGUAR ENERGY SERVICES, LLC** or their designee is notified before the employee(s) located outside the IDLH atmosphere enters the IDLH atmosphere to provide emergency rescue.
- e. **JAGUAR ENERGY SERVICES, LLC** or their authorized designee, once notified, will provide necessary assistance appropriate to the situation.

.35 Employee(s) located outside the IDLH atmospheres are equipped with:

- a. Pressure demand or other positive pressure SCBAs, or a pressure demand or other positive pressure supplied-air respirator with auxiliary SCBA; and either:
 1. 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)

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2. and would not increase the overall risk resulting from entry.
Equivalent means for rescue where retrieval equipment is not required by this program.

.36

Procedures For Interior Structural Firefighting

JAGUAR ENERGY SERVICES, LLC has instructed all employees not to do any firefighting other than in the incipient mode unless it is for the protection of themselves or a co-worker.

- a. In the event that employ(s) are required to fight structural fires **JAGUAR ENERGY SERVICES, LLC** requires that:
 1. At least two employees enter the IDLH atmosphere and remain in visual or voice contact with one another at all times.
 2. At least two employees are located outside the IDLH atmosphere.
 3. All employees engaged in interior structural firefighting will use SCBAs.
 4. One of the two individuals located outside the IDLH atmosphere may be assigned to an additional role, such as incident commander in charge of the emergency or safety officer, so long as this individual is able to perform assistance or rescue activities without jeopardizing the safety or health of any firefighter working at the incident.
- b. Nothing in the procedure is meant to preclude firefighters from performing emergency rescue activities before an entire team has assembled.

.37

Emergency Escape Respirators

When working in any area where hydrogen sulfide (H₂S) is present or may become present, personnel must keep a 10-minute emergency escape air pack within easy reach of their immediate work area.

- a. These types of respirators consist of a hood and 10 minute air supply bottle that is carried by the person.
 1. This type of respirator is a loose fitting respirator.
- b. Individuals working in areas that may require the use of an emergency escape pack respirator must be:
 1. Medically evaluated upon assignment to a job requiring this type of respirator and annually thereafter until there are no additional

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assignments to work in areas where an escape type respirator would be required.

2. Medical evaluations are valid for one year.
3. Trained to properly use, maintain, clean, and inspect this type of respirator.
4. Trained to understand the limitations and applications appropriate for this type of respirator.

.38

Recordkeeping

Safety Director with help from the Safety Coordinator, has established and are retaining written information and certification regarding:

- a. Training
 1. A card for the employee
 2. Name of employee
 3. Employee **JAGUAR ENERGY SERVICES, LLC** number or Social Security number
 4. Date of certification
 5. Test score
 6. Type of training
 7. Instructor's name
- b. Medical evaluation.
 1. Records of medical evaluations required by this section must be retained and made available in accordance with 29 CFR 1910.1020.
- c. Fit testing.
 1. The Safety Director shall establish and maintain a record of the qualitative and quantitative fit tests administered to an employee including:
 - i. The name or identification of the employee tested
 - ii. Type of fit test performed
 - iii. Specific make, model, style, and size of respirator tested
 - iv. Date of test
 - v. The pass/fail results for QLFTs or the fit factor and strip chart recording or other recording of the test results for QNFTs.
 - vi. Fit test records shall be retained for respirator users until the next fit test is administered.

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d. This information will be maintained in the home office.

- .39 Respiratory Protection Program
A written copy of the current respirator program has been be retained by **JAGUAR ENERGY SERVICES, LLC**.
- a. Employees will be asked about the following in regards to the Respiratory Program and respiratory equipment.
1. Fit
 2. Selection
 3. Use
 4. Maintenance
- b. A written copy of all program evaluations and recommendations will be maintained.
- .40 This information will facilitate employee involvement in the respirator program, assist the employer in auditing the adequacy of the program, and provide a record for compliance determinations by OSHA.

.2 Training Requirements

JAGUAR ENERGY SERVICES, LLC will provide effective training to employees who are required to use respirators to accomplish their work assignments and protect them in case of an emergency situation to which they may potentially be exposed.

- .1 The training will be comprehensive and understandable and may be conducted by the Program Administration or contracted to a professional safety training **JAGUAR ENERGY SERVICES, LLC**.
- .2 The employee will be tested to assure that he comprehends the material.
- .3 The training shall be conducted in a manner that is understandable to the employee.
- .4 Customized programs will have to be developed and implemented for non-English speaking personnel.

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- .5 **JAGUAR ENERGY SERVICES, LLC** will provide the basic information on respirators in Appendix G of this program in written or oral format, to employees who wear respirators when not required by this program or **JAGUAR ENERGY SERVICES, LLC** to do so.
- .6 The training will ensure that each employee can demonstrate knowledge of at least the following:
- a. Respirators and why the respirator is necessary
 - b. How improper fit usage, or maintenance, can compromise the protective effect of the respirator.
 - c. What the limitations and capabilities of the respirator are.
 - d. How to use the respirator effectively in emergency situations, including situations in which the respirator malfunctions.
 - e. Proper use of a 10-minute emergency escape air pack in an emergency situation.
 - f. In respirator use how to:
 - i. Fit
 - ii. Inspect
 - iii. Don
 - iv. Doff
 - v. Use
 - vi. Do fit checks
 - vii. Wear
 - g. What the procedures are for maintenance and storage of the respirator.
 - h. How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators.
 - i. The general requirements of the OSHA 29 CFR 1910.134.
 - j. Contents of this procedure.
- .7 **JAGUAR ENERGY SERVICES, LLC** personnel shall be trained in the proper First Aid and Emergency Treatment procedures.
- .8 Written training or retraining materials will be made available upon request to affected employees and to the Assistant Secretary or designee for examination and copying.

.3 Training Frequency

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- .1 This training will be provided prior to requiring the employee to use a respirator in the workplace.

- .2 Retraining shall be administered annually, and when the following situations occur:
 - a. Changes in the workplace or the type of respirator render previous training obsolete.
 - b. Inadequacies in the employee's knowledge or use of the respirator indicate that the employee has not retained the requisite understanding or skill.
 - c. Any other situation arises in which retraining appears necessary to ensure safe respirator use.

- .3 If **JAGUAR ENERGY SERVICES, LLC** is able to demonstrate that a new employee has received training within the last 12 months that addresses the elements listed above, the employee will not be required to repeat such training.
 - a. If the employee can demonstrate knowledge of those element(s).
 - b. Previous training not repeated initially by the employer must be provided no later than 12 months from the date of the previous training.

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APPENDIX A DEFINITIONS

Airline Respirator is a supplied air respirator where the air is supplied from a remote source and is not carried on the person.

Air-purifying respirator means a respirator with an air-purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element.

Assigned protection factor is the level of respiratory protection expected to be provided by a given class of respirators to a properly fitted and trained user. This factor is assigned by OSHA in substance specific standards and by ANSI in the voluntary national standard, Z88.2

Atmosphere-supplying respirator means a respirator that supplies the respirator user with breathing air from a source independent of the ambient atmosphere, and includes supplied-air respirators (SAR's) and self-contained breathing apparatus (SCBA) units.

Canister or cartridge means a container with a filter, sorbent, or catalyst, or combination of these items, which removes specific contaminants from the air passed through the container.

Demand respirator means an atmosphere-supplying respirator that admits breathing air to the facepiece only when a negative pressure is created inside the facepiece by inhalation.

Emergency situation means any occurrence such as, but not limited to, equipment failure, rupture of containers, or failure of control equipment that may or does result in an uncontrolled significant release of an airborne contaminant.

Employee exposure means exposure to a concentration of an airborne contaminant that would occur if the employee were not using respiratory protection.

End-of-service-life indicator (ESLI) means a system that warns the respirator user of the approach of the end of adequate respiratory protection, for example, that the sorbent is approaching saturation or is no longer effective.

Escape-only respirator means a respirator intended to be used only for emergency exit.

Filter or air purifying element means a component used in respirators to remove solid or liquid aerosols from the inspired air.

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Filtering facepiece (dust mask) means a negative pressure particulate respirator with a filter as an integral part of the facepiece or with the entire facepiece composed of the filtering medium.

Fit factor means a quantitative estimate of the fit of a particular respirator to a specific individual, and typically estimates the ratio of the concentration of a substance in ambient air to its concentration inside the respirator when worn.

Fit test means the use of a protocol to qualitatively or quantitatively evaluate the fit of a respirator on an individual. (See also Qualitative Fit Test QLFT and Quantitative Fit Test QNFT.)

Grade D Breathing Air. Air that meets the requirements for Type 1-Grade D breathing air as described in the ANSI/Compressed Gas Association Commodity Specifications for Air. The oxygen content must be between 19.5 and 23.5 %. Hydrocarbon content cannot exceed 5 mg/m³.

Carbon Monoxide content cannot exceed 10 ppm. Carbon Dioxide content cannot exceed 1000 ppm. There must be lack of noticeable odor.

Helmet means a rigid respiratory inlet covering that also provides head protection against impact and penetration.

High efficiency particulate air (HEPA) filter means a filter that is at least 99.97% efficient in removing monodisperse particles of 0.3 micrometers in diameter. The equivalent NIOSH 42 CFR 84 particulate filters are the N100, R100, and P100 filters.

Hood means a respiratory inlet covering that completely covers the head and neck and may also cover portions of the shoulders and torso.

Immediately dangerous to life or health (IDLH) means an atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects, or would impair an individual's ability to escape from a dangerous atmosphere.

Interior structural firefighting means the physical activity of fire suppression, rescue, or both, inside of buildings or enclosed structures, which are involved in a fire situation beyond the incipient stage. (See 29 CFR 1910.155)

Loose-fitting facepiece means a respiratory inlet covering that is designed to form a partial seal with the face.

Maximum use concentration (MUC) relates to the protectiveness of the respirator. The maximum use concentration is a mathematical product of the values for the permissible exposure limit and the assigned protection factor.

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Negative pressure respirator (tight fitting) means a respirator in which the air pressure inside the facepiece is negative during inhalation, with respect to the ambient air pressure outside the respirator.

Oxygen deficient atmosphere means an atmosphere with an oxygen content below 19.5% by volume.

Physician or other licensed health care professional (PLHCP) means an individual whose legally permitted scope of practice (i.e., license, registration, or certification) allows him or her to independently provide, or be delegated the responsibility to provide, some or all of the health care services required by paragraph (e) of this section.

Positive pressure respirator means a respirator in which the pressure inside the respiratory inlet covering exceeds the ambient air pressure outside the respirator.

Powered air-purifying respirator (PAPR) means an air-purifying respirator that uses a blower to force the ambient air through air-purifying elements to the inlet covering.

Pressure demand respirator means a positive pressure atmosphere-supplying respirator that admits breathing air to the facepiece, when the positive pressure is reduced inside the facepiece by inhalation.

Qualitative fit test (QLFT) means a pass/fail fit test to assess the adequacy of respirator fit that relies on the individual's response to the test agent.

Quantitative fit test (QNFT) means an assessment of the adequacy of respirator fit by numerically measuring the amount of leakage into the respirator.

Respiratory inlet covering means that portion of a respirator that forms the protective barrier between the user's respiratory tract and an air-purifying device or breathing air source, or both. It may be a facepiece, helmet, hood, suit, or a mouthpiece respirator with nose clamp.

Self-contained breathing apparatus (SCBA) means an atmosphere-supplying respirator for which the breathing air source is designed to be carried by the user.

Service life means the period of time that a respirator, filter, sorbent, or other respiratory equipment provides adequate protection to the wearer.

Supplied-air respirator (SAR) or airline respirator means an atmosphere-supplying respirator for which the source of breathing air is not designed to be carried by the user.

Tight-fitting facepiece means a respiratory inlet covering that forms a complete seal with the face.

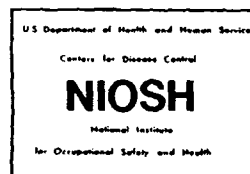
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User seal check means an action conducted by the respirator user to determine if the respirator is properly seated to the face.

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PERMISSIBLE

30 Minute Self Contained Pressure Demand Compressed Air Breathing Apparatus



MINE SAFETY AND HEALTH ADMINISTRATION
NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

APPROVAL NO. TC-13F-000

ISSUED TO
ABC Company
Anywhere, USA

SAMPLE

LIMITATIONS

Approved for respiratory protection during the entry into or escape from oxygen deficient atmospheres, gases and vapors at temperatures above -22°F. Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7-1 for Type 1, Grade D air or equivalent specifications. The container shall meet applicable DOT specifications. Demand mode shall be used only when donning apparatus. At temperatures above 32°F use without noseclip is permitted.

CAUTION

Use adequate skin protection when worn in gases or vapors that poison by skin absorption (for example, hydrocyanic acid gas). In making renewals and repairs, part identical with those furnished by the manufacturer under the pertinent approval shall be maintained. This respirator shall be selected, fitted, used, and maintained in accordance with Mine Safety and Health Administration, and other applicable regulations.

SAMPLE

MSHA — NIOSH Approval TC-13F-000
Issued to ABC Co., February 31, 2000

The approved assembly consists of the following part numbers:

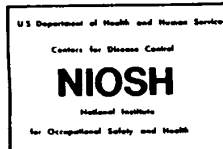
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APPENDIX C

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PERMISSIBLE
Combination Ten Minute Self-Contained Compressed Air
Breathing Apparatus for Escape Only
Pressure Demand Type C Supplied Air Respirator



MINE SAFETY AND HEALTH ADMINISTRATION
NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

APPROVAL NO. TC-13F-000

ISSUED TO

ABC Company
Anywhere, U.S.A.

LIMITATIONS

Approved for respiratory protection during entry and escape from oxygen deficient atmospheres, gas, and vapors, when using air-line air supply. Approved for escape only, when using self-contained air supply. Approved for use at temperatures above -25°F.

Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Air Gas Association Specifications G-7-1 for type 1, Grade D air, or equivalent specifications. The containers shall meet applicable DOT specifications.

This approval applies only when the device is supplied with respirable breathing air through 12.5 to 300 feet of hose at air pressures between 78 and 80 pounds per square inch gage or from self-contained air supply. If the supplied-air fails, open cylinder valve and proceed to fresh air immediately.

CAUTION

Use with adequate skin protection when worn in gases and vapors that poison by skin absorption (for example: hydrocyanic-acid gas). In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained. This respirator shall be selected, fitted, used, and maintained in accordance with Mine Safety and Health Administration, and other applicable regulations.

SAMPLE

SAMPLE

MSHA — NIOSH Approval TC-13F-000

Issued to ABC Company, February 31, 2000

The approval assembly consists of the following part numbers:

000-000
000-000
etc.

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APPENDIX D **WITH AN EXCEPTION FOR THE CNP TEST EXERCISES** **TEST EXERCISES.**

Normal breathing.

In a normal standing position, without talking, the subject shall breathe normally for 1 minute.

After the normal breathing exercise, the subject needs to hold their head straight ahead and holdhis/her or her breath for 10 seconds during the test measurement.

Deep Breathing

In a normal standing position, the subject shall breathe slowly and deeply for 1 minute, being careful not to hyperventilate. After the deep breathing exercise, the subject shall holdhis/her or her head straight ahead and holdhis/her or her breath for 10 seconds during test measurement.

Turning head side to side.

Standing in place, the subject shall slowly turnhis/her or her head from side to side between the extreme positions on each side for 1 minute.

The head shall be held at each extreme momentarily so the subject can inhale at each side. After the turning head side to side exercise, the subject needs to hold their head full left and holdhis/her or her breath for 10 seconds during test measurement.

Next, the subject needs to hold their head full right and holdhis/her or her breath for 10 seconds during test measurement.

Moving head up and down.

Standing in place, the subject shall slowly movehis/her or her head up and down for 1 minute. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).

After the moving head up and down exercise, the subject shall holdhis/her or her head full up and holdhis/her or her breath for 10 seconds during test measurement.

Next, the subject shall holdhis/her or her head full down and holdhis/her or her breath for 10 seconds during test measurement.

Talking.

The subject shall talk out loud slowly and loud enough so as to be heard clearly by the test conductor. The subject can read from a prepared text such as the Rainbow Passage, count backward from 100, or recite a memorized poem or song for 1 minute.

After the talking exercise, the subject shall holdhis/her or her head straight ahead and holdhis/her or her breath for 10 seconds during the test measurement.

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Grimace.

The test subject shall grimace by smiling or frowning for 15 seconds.

Bending Over.

The test subject shall bend at the waist as if he or she were to touch his/her or her toes for 1 minute.

Jogging in place shall be substituted for this exercise in those test environments such as shroud-type QNFT units that prohibit bending at the waist.

After the bending over exercise, the subject shall hold his/her or her head straight ahead and hold his/her or her breath for 10 seconds during the test measurement.

Normal Breathing.

The test subject shall remove and re-don the respirator within a one-minute period. Then, in a normal standing position, without talking, the subject shall breathe normally for 1 minute.

After the normal breathing exercise, the subject shall hold his/her or her head straight ahead and hold his/her or her breath for 10 seconds during the test measurement.

After the test exercises, the test subject shall be questioned by the test conductor regarding the comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of a respirator shall be tried.

CNP Test Instrument.

The test instrument shall have an effective audio warning device, when the test subject fails to hold his/her or her breath during the test.

The test shall be terminated whenever the test subject failed to hold his/her or her breath.

The test subject may be refitted and retested.

A record of the test shall be kept on file, assuming the fit test was successful. The record must contain the test subject's name, overall fit factor, make, model, style, and size of respirator used, and date tested.

New Fit Test Protocols

Any person may submit to OSHA an application for approval of a new fit test protocol. If the application meets the following criteria, OSHA will initiate a rulemaking proceeding under section 6(b)(7) of the OSHA Act to determine whether to list the new protocol as an approved protocol in this Appendix D.

The application must include a detailed description of the proposed new fit test protocol. This application must be supported by either a test report prepared by an independent government research laboratory (e.g., Lawrence Livermore National Laboratory, Los

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Alamos National Laboratory, and the National Institute for Standards and Technology) stating that the laboratory has tested the protocol and had found it to be accurate and reliable, or an article that has been published in a peer-reviewed industrial hygiene journal describing the protocol and explaining how test data support the protocol's accuracy and reliability.

If OSHA determines that additional information is required before the Agency commences a rulemaking proceeding under this section, OSHA will so notify the applicant and afford the applicant the opportunity to submit the supplemental information. Initiation of a rulemaking proceeding will be deferred until OSHA has received and evaluated the supplemental information.

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APPENDIX E **USER SEAL CHECK PROCEDURES** **(MANDATORY)**

The individual who uses a tight-fitting respirator is to perform a user seal check to ensure that an adequate seal is achieved each time the respirator is put on. Either the positive and negative pressure checks listed in this appendix, or the respirator manufacturer's recommended user seal check method shall be used. User seal checks are not substitutes for qualitative or quantitative fit tests.

Facepiece Positive and/or Negative Pressure Checks

Positive pressure check.

Close off the exhalation valve and exhale gently into the facepiece. The face fit is considered satisfactory if a slight positive pressure can be built up inside the facepiece without any evidence of outward leakage of air at the seal. For most respirators this method of leak testing requires the wearer to first remove the exhalation valve cover before closing off the exhalation valve and then carefully replacing it after the test.

Negative pressure check.

Close off the inlet opening of the canister or cartridge(s) by covering with the palm of the hand(s) or by replacing the filter seal(s), inhale gently so that the facepiece collapses slightly, and hold the breath for ten seconds. The design of the inlet opening of some cartridges cannot be effectively covered with the palm of the hand. The test can be performed by covering the inlet opening of the cartridge with a thin latex or nitrile glove. If the facepiece remains in its slightly collapsed condition and no inward leakage of air is detected, the tightness of the respirator is considered satisfactory.

Manufacturer's Recommended User Seal Check Procedures

The respirator manufacturer's recommended procedures for performing a user seal check may be used instead of the positive and/or negative pressure check procedures, provided that the employer demonstrates that the manufacturer's procedures are equally effective.

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APPENDIX F **RESPIRATOR CLEANING PROCEDURES** **(MANDATORY)**

These procedures are provided for employer use when cleaning respirators. They are general in nature, and the employer as an alternative may use the cleaning recommendations provided by the manufacturer of the respirators used by their employees, provided such procedures are as effective as those listed in Appendix B- 2 of 29 CFR 1910.134.

Equivalent effectiveness simply means that the procedures used must accomplish the objectives set forth in Appendix B-2, of 29 CFR 1910.134, and must ensure that the respirator is properly cleaned and disinfected in a manner that prevents damage to the respirator and does not cause harm to the user.

Procedures for Cleaning Respirators

Remove filters, cartridges, or canisters. Disassemble facepieces by removing speaking diaphragms, demand, and pressure-demand valve assemblies, hoses, or any components recommended by the manufacturer. Discard or repair any defective parts. Wash components in warm (43 deg. C [110 deg. F] maximum) water with a mild detergent or with a cleaner recommended by the manufacturer. A stiff bristle (not wire) brush may be used to facilitate the removal of dirt. Rinse components thoroughly in clean, warm (43 deg. C [110 deg. F] maximum), preferably running water. Drain.

When the cleaner used does not contain a disinfecting agent, respirator components should be immersed for two minutes in a hypochlorite solution (50 ppm of chlorine) made by adding approximately one milliliter of laundry bleach to one liter of water at 43 deg. C (110 deg. F); or, aqueous solution of iodine (50 ppm iodine) made by adding approximately 0.8 milliliters of tincture of iodine (6-8 grams ammonium and/or potassium iodide/100 cc of 45% alcohol) to one liter of water at 43 deg. C (110 deg. F); or, other commercially available cleansers of equivalent disinfectant quality when used as directed, if their use is recommended or approved by the respirator manufacturer. Rinse components thoroughly in clean, warm (43 deg. C [110 deg. F] maximum), preferably running water. Drain.

The importance of thorough rinsing cannot be overemphasized. Detergents or disinfectants that dry on facepieces may result in dermatitis. In addition, some disinfectants may cause deterioration of rubber or corrosion of metal parts if not completely removed.

Components should be hand-dried with a clean lint-free cloth or air-dried. Reassemble facepiece, replacing filters, cartridges, and canisters where necessary. Test the respirator to ensure that all components work properly.

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APPENDIX G

INFORMATION FOR EMPLOYEES USING RESPIRATORS WHEN NOT REQUIRED UNDER THE STANDARD (MANDATORY)

Respirators are an effective method of protection against designated hazards when properly selected and worn.

Respirator use is encouraged, even when exposures are below the exposure limit, to provide an additional level of comfort and protection for workers. However, if a respirator is used improperly or not kept clean, the respirator itself can become a hazard to the worker.

Where respirator use is not required, **JAGUAR ENERGY SERVICES, LLC** will provide respirators at the request of employees or permit employees to use their own respirators, if the Program Administrator determines that such respirator use will not in itself create a hazard.

If the Program Administrator determines that any voluntary respirator use is permissible, **JAGUAR ENERGY SERVICES, LLC** will provide the respirator users with ("Information for Employees Using Respirators When Not Required Under the Standard"), will establish and implement those elements of a written respiratory protection program necessary to ensure that any employee using a respirator voluntarily is medically able to use that respirator, and that the respirator is cleaned, stored, and maintained so that its use does not present a health hazard to the user.

JAGUAR ENERGY SERVICES, LLC is not required to include in a written respiratory protection program those employees whose only use of respirators involves the voluntary use of filtering facepieces (dust masks).

The user should read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirator's limitations and choose respirators certified for use to protect against the contaminant of concern. NIOSH, the National Institute for Occupational Safety and Health of the U.S. Department of Health and Human Services, certifies respirators.

A label, or statement of certification, should appear on the respirator or respirator packaging. It will tell you what the respirator is designed for and how much it will protect you.

Do not wear any respirator into atmospheres containing contaminants for which it is not designed to protect against. For example, a respirator designed to filter dust particles will not protect you against gases, vapors, or very small solid particles of fumes or smoke.

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Keep track of your respirator so that you do not mistakenly use someone else's respirator. **JAGUAR ENERGY SERVICES, LLC** will include in the program the following provisions of this section, as applicable:

1. Procedures for selecting respirators for use in the workplace.
2. Medical evaluations of employees required to use respirators.
3. Fit testing procedures for tight-fitting respirators.
4. Procedures for proper use of respirators in routine and reasonably foreseeable emergency situations.
5. Procedures and schedules for cleaning, disinfecting, storing, inspecting, repairing, discarding, and otherwise maintaining respirators.
6. Procedures to ensure adequate air quality, quantity, and flow of breathing air for atmosphere-supplying respirators.

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**APPENDIX H: OSHA RESPIRATOR MEDICAL EVALUATION QUESTIONNAIRE
(MANDATORY)**

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To the employer: Answers to questions in Section 1, and to question 9 in Section 2 of Part A, do not require a medical examination.

To the employee: Can you read (circle one): Yes No

Your employer must allow you to answer this questionnaire during normal working hours, or at a time and place that is convenient to you. To maintain your confidentiality, your employer or (DPE/SC) must not look at or review your answers, and your employer must tell you how to deliver or send this questionnaire to the health care professional who will review it.

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Part A. Section 1. (Mandatory) The following information must be provided by every employee who has been selected to use any type of respirator (please print).

1. Today's date: _____
2. Your name: _____
3. Your age (to nearest year): _____
4. Sex (circle one): Male Female
5. Your height: _____ ft.
 _____ in.
6. Your weight: _____ lbs.
7. Your job title: _____
8. A phone number where you can be reached by the health care professional who reviews this questionnaire (include the Area Code): _____
9. The best time to phone you at this number: _____
10. Has your employer told you how to contact the health care professional who will review this questionnaire (circle one): Yes/No
11. Circle the letter for the type of respirator you will use (you can circle more than one category):
 - a. N, R, or P disposable respirator (filter-mask, non- cartridge type only).
 - b. Other type (for example, half- or full-facepiece type, powered-air purifying, supplied-air, self-contained breathing apparatus).
12. Have you worn a respirator (circle one): Yes No
If "yes," what type(s): _____

2. Have you ever had any of the following conditions?

- a. Seizures (fits): Yes No
- b. Diabetes (sugar disease): Yes No
- c. Allergic reactions that interfere with your breathing: Yes No
- d. Claustrophobia (fear of closed-in places): Yes No
- e. Trouble smelling odors: Yes No

3. Have you ever had any of the following pulmonary or lung problems?

- a. Asbestosis: Yes No
- b. Asthma: Yes No
- c. Chronic bronchitis: Yes No
- d. Emphysema: Yes No
- e. Pneumonia: Yes No
- f. Tuberculosis: Yes No
- g. Silicosis: Yes No
- h. Pneumothorax (collapsed lung):
Yes No
- i. Lung cancer: Yes No
- j. Broken ribs: Yes No
- k. Any chest injuries or surgeries:
Yes No
- l. Any other lung problem that you've been told about: Yes No

4. Do you currently have any of the following symptoms of pulmonary or lung illness?

- a. Shortness of breath: Yes No
- b. Shortness of breath when walking fast on level ground or walking up a slight hill or incline: Yes No
- c. Shortness of breath when walking with other people at an ordinary pace on level ground: Yes No
- d. Have to stop for breath when walking at your own pace on level ground: Yes No
- e. Shortness of breath when washing or dressing yourself: Yes No

Part A. Section 2. (Mandatory) Questions 1 through 9 below must be answered by every employee who has been selected to use any type of respirator (please circle "yes" or "no").

1. Do you currently smoke tobacco, or have you smoked tobacco in the last month: Yes No

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- f. Shortness of breath that interferes with your job: Yes No
 - g. Coughing that produces phlegm (thick sputum): Yes No
 - h. Coughing that wakes you early in the morning: Yes No
 - i. Coughing that occurs mostly when you are lying down: Yes No
 - j. Coughing up blood in the last month: Yes No
 - k. Wheezing: Yes No
 - l. Wheezing that interferes with your job: Yes No
 - m. Chest pain when you breathe deeply: Yes No
 - n. Any other symptoms that you think may be related to lung problems: Yes No
5. Have you ever had any of the following cardiovascular or heart problems?
- a. Heart attack: Yes No
 - b. Stroke: Yes No
 - c. Angina: Yes No
 - d. Heart failure: Yes No
 - e. Swelling in your legs or feet (not caused by walking): Yes No
 - f. Heart arrhythmia (heart beating irregularly): Yes No
 - g. High blood pressure: Yes No
 - h. Any other heart problem that you've been told about: Yes No
6. Have you ever had any of the following cardiovascular or heart symptoms?
- a. Frequent pain or tightness in your chest: Yes No
 - b. Pain or tightness in your chest during physical activity: Yes No
 - c. Pain or tightness in your chest that interferes with your job: Yes No
 - d. In the past two years, have you noticed your heart skipping or missing a beat: Yes No
- e. Heartburn or indigestion that is not related to eating: Yes No
 - f. Any other symptoms that you think may be related to heart or circulation problems: Yes No
7. Do you currently take medication for any of the following problems?
- a. Breathing or lung problems: Yes No
 - b. Heart trouble: Yes No
 - c. Blood pressure: Yes No
 - d. Seizures (fits): Yes No
8. If you've used a respirator, have you ever had any of the following problems? (If you've never used a respirator, check the following space and go to question 9:)
- a. Eye irritation: Yes No
 - b. Skin allergies or rashes: Yes No
 - c. Anxiety: Yes No
 - d. General weakness or fatigue: Yes No
 - e. Any other problem that interferes with your use of a respirator: Yes No
9. Would you like to talk to the health care professional who will review this questionnaire about your answers to this questionnaire: Yes No
- Questions 10 to 15 below must be answered by every employee who has been selected to use either a full-facepiece respirator or a self-contained breathing apparatus (SCBA). For employees who have been selected to use other types of respirators, answering these questions is voluntary.
10. Have you ever lost vision in either eye (temporarily or permanently): Yes No
11. Do you currently have any of the following vision problems?

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- a. Wear contact lenses: Yes No
- b. Wear glasses: Yes No
- c. Color blind: Yes No
- d. Any other eye or vision problem: Yes No
12. Have you ever had an injury to your ears, including a broken ear drum: Yes No
13. Do you currently have any of the following hearing problems?
- a. Difficulty hearing: Yes No
- b. Wear a hearing aid: Yes No
- c. Any other hearing or ear problem: Yes No
14. Have you ever had a back injury: Yes No
15. Do you currently have any of the following musculoskeletal problems?
- a. Weakness in any of your arms, hands, legs, or feet: Yes/No
- b. Back pain: Yes No
- c. Difficulty fully moving your arms and legs: Yes No
- d. Pain or stiffness when you lean forward/backward at the waist: Yes No
- e. Difficulty fully moving your head up or down: Yes No
- f. Difficulty fully moving your head side to side: Yes No
- g. Difficulty bending at your knees: Yes No
- h. Difficulty squatting to the ground: Yes No
- i. Climbing a flight of stairs or a ladder carrying more than 25 lbs: Yes No
- j. Any other muscle or skeletal problem that interferes with using a respirator: Yes No

Part B. Any of the following questions, and other questions not listed, may be added to the questionnaire at the discretion of the

health care professional who will review the questionnaire.

1. In your present job, are you working at high altitudes (over 5,000 feet) or in a place that has lower than normal amounts of oxygen: Yes No
- If "yes," do you have feelings of dizziness, shortness of breath, pounding in your chest, or other symptoms when you're working under these conditions: Yes No
2. At work or at home, have you ever been exposed to hazardous solvents, hazardous airborne chemicals (e.g., gases, fumes, or dust), or have you come into skin contact with hazardous chemicals: Yes No

If "yes," name the chemicals if you know them: _____

3. Have you ever worked with any of the materials, or under any of the conditions, listed below:
- a. Asbestos: Yes No
- b. Silica (e.g., in sandblasting): Yes No
- c. Tungsten/cobalt (e.g., grinding or welding this material): Yes No
- d. Beryllium: Yes No
- e. Aluminum: Yes No
- f. Coal (for example, mining): Yes No
- g. Iron: Yes No
- h. Tin: Yes No
- i. Dusty environments: Yes No
- j. Any other hazardous exposures: Yes No

If "yes," describe these exposures: _____

4. List any second jobs or side businesses you have: _____

5. List your previous occupations: _____

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- _____ If "yes," how long does this period last during the average shift: _____ hrs. _____ mins.
6. List your current and previous hobbies: _____
7. Have you been in the military services?
Yes No
If "yes," were you exposed to biological or chemical agents (either in training or combat): Yes No
8. Have you ever worked on a HAZMAT team? Yes No
9. Other than medications for breathing and lung problems, heart trouble, blood pressure, and seizures mentioned earlier in this questionnaire, are you taking any other medications for any reason (including over-the-counter medications): Yes No
If "yes," name the medications if you know them: _____
10. Will you be using any of the following items with your respirator(s)?
a. HEPA Filters: Yes No
b. Canisters (for example, gas masks): Yes No
c. Cartridges: Yes No
11. How often are you expected to use the respirator(s) (circle "yes" or "no" for all answers that apply to you)?:
a. Escape only (no rescue): Yes No
b. Emergency rescue only: Yes No
c. Less than 5 hours per week: Yes No
d. Less than 2 hours per day: Yes No
e. 2 to 4 hours per day: Yes No
f. Over 4 hours per day: Yes No
12. During the period you are using the respirator(s), is your work effort:
a. Light (less than 200 kcal per hour): Yes No
- b. Moderate (200 to 350 kcal per hour): Yes/No
If "yes," how long does this period last during the average shift: _____ hrs. _____ mins.
Examples of moderate work effort are sitting while nailing or filing; driving a truck or bus in urban traffic; standing while drilling, nailing, performing assembly work, or transferring a moderate load (about 35 lbs.) at trunk level; walking on a level surface about 2 mph or down a 5-degree grade about 3 mph; or pushing a wheelbarrow with a heavy load (about 100 lbs.) on a level surface.
- c. Heavy (above 350 kcal per hour): Yes No
If "yes," how long does this period last during the average shift: _____ hrs. _____ mins.
Examples of heavy work are lifting a heavy load (about 50 lbs.) from the floor to your waist or shoulder; working on a loading dock; shoveling; standing while bricklaying or chipping castings; walking up an 8-degree grade about 2 mph; climbing stairs with a heavy load (about 50 lbs.).
13. Will you be wearing protective clothing and/or equipment (other than the respirator) when you're using your respirator: Yes No

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If "yes," describe this protective clothing and/or equipment: _____

14. Will you be working under hot conditions (temperature exceeding 77 deg. F):
Yes No

15. Will you be working under humid conditions: Yes No

16. Describe the work you'll be doing while you're using your respirator(s): _____

17. Describe any special or hazardous conditions you might encounter when you're using your respirator(s)

18. Provide the following information, if you know it, for each toxic substance that you'll be exposed to when you're using your respirator(s):

Name of the first toxic substance: _____

Estimated maximum exposure level per shift: _____

Duration of exposure per shift: _____

Name of the second toxic substance: _____

Estimated maximum exposure level per shift: _____

Duration of exposure per shift: _____

Name of the third toxic substance: _____

Estimated maximum exposure level per shift: _____

Duration of exposure per shift: _____

The name of any other toxic substances that you'll be exposed to while using your respirator: _____

19. Describe any special responsibilities you'll have while using your respirator(s) that may affect the safety

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APPENDIX I: PLHCP FOLLOW-UP MEDICAL EXAMINATION

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