





<b>RESPIRATORY PROTECTION PROGRAM</b>	Procedure Number <b>SAF-1.03</b>
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<b>ISSUED BY:</b>   Safety Manager Coosa Pines Mill	<b>APPROVED BY:</b>   General Manager Coosa Pines Mill
<b>11-21-19</b> DATE	<b>11-25-19</b> DATE
INTERPRETATION AND PERIODIC REVIEW OF THIS PROCEDURE IS THE RESPONSIBILITY OF: <b>SAFETY MANAGER</b>	
<b>DISTRIBUTION</b>  ALL MANAGERS ALL TEAM LEADERS	

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## 1.0 PURPOSE

This program sets forth the guidelines for Coosa Pines Mill Respiratory Protection Program. The purpose of the respiratory protection program is to protect each individual from exposure to air contaminants such as harmful dusts, fogs, fumes, mists, gases, smokes, sprays or vapors that may cause occupational diseases or illness.

## 2.0 SCOPE

- 2.1 This respiratory protection program applies to all individuals on the Coosa Pines Mill premises during routine, shut down and emergency operations. Specifically, it governs the selection, care and use of air-purifying and air-supplying respirators.
- 2.2 Contractors, vendors, and visitors are also expected to comply with respirator usage as required by this program, and with all requirements of 29 CFR 1910.134. It will be the responsibility of the contractors to supply their employees with the appropriate respiratory protection equipment and provide training for proper respirator use.
- 2.3 Contractors shall be informed of this program during their initial Safety Orientation, and annually thereafter.
- 2.4 This program and its procedures are not applicable to employees whose only use of a respirator is (a) the voluntary use of the filtering face piece respirator (dust mask) or (b) the use of the 'Escape Only' respirator.

## 3.0 POLICY

- 3.1 It is the policy of Coosa Pines Mill to provide its employees a safe and healthy working environment. Coosa Pines shall accomplish this objective as much as feasible through accepted engineering control measures. When effective engineering controls are not feasible, or while they are being instituted, Coosa Pines employees shall use appropriate respirators.
- 3.2 Coosa Pines Mill provided respirators shall be applicable and suitable for the protection required and purpose intended. Employees required to use respirators will be provided medical evaluations, fit testing and user training.
- 3.3 It is Coosa Pine's policy not to permit employees to use their own respirators, as this may result in the use of respirators that may not be appropriate protection for the hazard, may not be maintained in accordance with this program, or that otherwise pose a health hazard to the user.
- 3.4 Employees who wish to use a respirator in non-required activity shall see the Program Administrator for appropriate fitting, training, medical evaluation and compliance with other requirements as provided herein.

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#### 4.0 RESPONSIBILITIES

##### 4.1 Safety Manager

- 4.1.1 The Safety Manager is the primary official responsible for the Administration of the Coosa Pines Mill Respiratory Protection Program and hereafter is referred to as the 'Program Administrator'.
- 4.1.2 The Program Administrator will have the authority to act on all matters relating to the administration of the Respiratory Protection Program. This includes evaluating the program annually or as necessary due to changes in regulations and/or work processes.

##### 4.2 Safety Technician

- 4.2.1 Implementation of this program is delegated to the Safety Technician, hereafter designated as 'Program Coordinator'.
- 4.2.2 Assists employees and Shift Team Leader with the selection of respirators to be used at the Coosa Pines Mill.
- 4.2.3 Assists Shift Team Leaders with determining the nature and degree of respiratory hazards and proper respirator for each task.
- 4.2.4 Coordinates training programs on proper use and maintenance of respirators.
- 4.2.5 The Program Coordinator or an entity (company) designated by them, will train department supervisory personnel on the following subjects:
  - The basic requirements of the Occupational Safety and Health Administration's respiratory protection program and the requirements of this Program;
  - Specific air contaminants and conditions to which employees may be exposed and the reasons for respiratory protection;
  - The proper selection, use and limitations of different respirators and their components;
  - Proper cleaning, storage and inspection of respirators;
  - The legal requirements pertinent to the use of respirators;
  - Emergency applications.
- 4.2.6 Ensures that Coosa Pines employees who are required to use respiratory protection are medically evaluated and deemed qualified to wear a respirator.

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- 4.2.7 Maintains monthly inspection forms of Self Contained Breathing Apparatus (SCBA) generated by appropriate departments.
- 4.2.8 Maintains respiratory protection training records for all Coosa Pines employees.
- 4.2.9 Assures that air cylinders for all Self Contained Breathing Apparatus (SCBA) are charged and maintained according to the applicable ANSI Standards and manufacturers' instructions.

**4.3 Department Managers and Shift Team Leaders**

- 4.3.1 Department Managers shall maintain a list of tasks in their department(s) that require respirators. This list will identify the potential contaminant's chemical state and concentration, the types of approved respirators and/or cartridges.
- 4.3.2 Shift Team Leaders shall be responsible for the daily application of this program to all operations under their control. This includes but is not limited to the following.
  - Ensuring that employees have been trained in the specific use of each respirator required in the performance of their job/task assignment. That training will include the following subjects:
    - The nature of the air contaminant and their potential hazard(s);
    - The proper use and limitations of the selected respirator and components;
    - Explanation of the reasons for wearing a respirator;
    - Proper wearing, fitting and checking the respirator for leaks;
    - Instructions on proper storage, cleaning and maintenance of respirators;
    - Basic understanding of applicable regulations and the requirements of this program;
  - Preparing employee training documents that include the employee's name, date of class, and subject(s) covered, forwarding to the Program Coordinator.
  - Ensuring that respirators are used properly;
  - Ensuring that respirators are inspected for proper storage, cleanliness, and integrity monthly;
  - Ensuring that employees are clean shaven;
  - Ensuring that employees have a current respirator fit test.

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#### 4.4 Employees

4.4.1 The employee shall be responsible for:

- Being familiar with procedures for the routine and emergency use of respirators that are required to perform their job;
- Inspecting, cleaning and storing the respirator in accordance with manufacturers recommended practices;
- Being clean shaven.

4.4.2 Reporting any medical changes or conditions that may affect their ability to wear the assigned equipment.

### 5.0 PROGRAM PROCEDURES

#### 5.1 Selection of a Respirator

##### 5.1.1 General

- Selection of the appropriate respirator requires matching the respirator to the hazard and the user. The respirator must protect the user from the hazard and allow the job to be performed. Items that must be considered in the selection process include the following:
  - Atmospheric contaminants (physical and chemical properties);
  - Reliability to filter contaminant;
  - Performance capability (service time);
  - Work place design (physical and environmental);
  - Employee's qualifications.
- **ATTACHMENT 2** is a list of NIOSH-certified respiratory protection equipment approved for use at the Coosa Pines Mill and a list of departments, tasks, hazards and type of respirator required. The listed respirators are available from Stores.

##### 5.1.2 Escape-only Respirators

- Escape-only respirators (similar to the Honeywell Mouth Bit disposable) are required and must be carried into the PSM Area, the Effluent Lift Station, and across the river at Waste Treatment Facility. Escape respirators shall not be used for any work activity.

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- The potential hazards in these areas include chlorine, chlorine dioxide, hydrogen sulfide and TRS gases.

#### 5.1.3 Non-IDLH Atmosphere Respirators

- Air purifying respirators are used to protect employees from contaminants that are not life threatening.
- These respirators are negative pressure, air-purifying respirators (half mask or full face piece) and may only be used in work activities where the contaminant concentrations are known.

#### 5.1.4 IDLH Atmosphere Respirators

- Respirators used in these type atmospheres must have air supplied from a source other than the ambient atmosphere.
- Two types of available respirators are (1) the full face piece pressure demand self-contained breathing apparatus (SCBA) certified by NIOSH with a minimum service life of 30 minutes and (2) a combination full face piece pressure demand air-line supplied respirator (SAR) with auxiliary self-contained air supply.
- Air-supplying respirators (airline supplied respirator and SCBA's) shall be required for work activities that expose employees to unknown concentrations of air contaminant or concentrations of contaminant known to be at or above the IDLH level.

### 5.2 Medical Evaluation

Using a respirator may place a physiological burden on employees that varies with the type of respirator worn, the job and workplace conditions in which the respirator is used, and the medical status of the employee. Accordingly, Coosa Pines Mill will complete a comprehensive medical evaluation before the employee is fit tested or required to use the respirator.

#### 5.2.1 Medical Evaluation Procedure

- Each employee required to wear a respirator will complete a written medical questionnaire (**ATTACHMENT 3**).
- The medical questionnaire will be administered by the Program Administrator or designee during the employee's normal working hours or at a time and place convenient to the employee.
- Coosa Pines Mill shall ensure that the employee understands its content and has an opportunity to discuss the questionnaire with the Medical Advisor.

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5.2.2 Supplemental Information for the Medical Advisor

- **ATTACHMENT 3** also contains a listing of information that must be supplied by the Department Manager, Shift Team Leader, or Program Administrator to the Medical Advisor before the medical evaluation may be completed and a recommendation made concerning an employee's ability to use a respirator.

5.2.3 Medical Determination

- The Medical Advisor will provide a recommendation regarding the employee's ability to use a respirator including the following information:
  - Any limitations on respirator use related to the medical condition of the employee, or relating to the workplace conditions in which the respirator will be used, including whether or not the employee is medically able to use the respirator;
  - The need, if any, for follow-up medical evaluations; and
  - A statement that the employee has been provided with a copy of the Medical Advisor's recommendation.

5.2.4 Follow-up Medical Examination

- A follow-up medical examination will be provided for an employee who gives a positive response to any question among questions 1 through 8 in Section 2, Part A of **ATTACHMENT 3**, or whose initial medical examination demonstrates the need for a follow-up medical examination.
- Additionally, if an employee will be wearing an SCBA, a positive response to any of the items in Questions 10 thru 15 of Part A, Section 2 will signal the need for a follow-up medical examination.
- The follow-up medical examination shall include any medical tests, consultations, or diagnostic procedures that the PLHCP deems necessary to make a final determination.

5.2.5 Additional Medical Evaluations

Coosa Pines will provide additional medical evaluations if:

- An employee reports medical signs or symptoms that are related to the ability to use a respirator;
- A Medical Advisor, Supervisor, or Team Leader informs the Program Administrator that an employee needs to be reevaluated;
- Information from the respiratory protection program, including observations

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made during fit testing and program evaluation, indicates a need for employee reevaluation; or

- 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.

#### 5.2.6 Completed Evaluations

The medical questionnaire and medical evaluation will be retained in the employee's medical file.

### 5.3 Fit Testing

5.3.1 Only medically qualified employees will be fit-tested for a respirator.

5.3.2 No employee will be allowed to wear a respirator in a work situation requiring respiratory protection until he or she has successfully completed a fit test with the same make, model, style, and size of respirator that will be used.

5.3.3 Employees must be fit-tested at no more than 12-month intervals.

5.3.4 Prior to the fit test, employees must receive the basic instructions in the selection, positioning on face, setting strap tension and instruction in how to conduct the user seal check.

5.3.5 Employees using respirators with tight-fitting face pieces must be clean shaven (see **ATTACHMENT 4**).

5.3.6 The fit test shall be administered using an OSHA-accepted QNFT protocol described in 29 CFR 1910.134 Appendix A.

#### 5.3.7 Retest

- Coosa Pines shall conduct an additional fit test whenever the Medical Advisor, supervisor, or Program Administrator observes changes in the employee's physical condition that could affect respirator fit. Such conditions include, but are not limited to, facial scarring, dental changes, cosmetic surgery, or an obvious change in body structure.
- When the employee notifies Coosa Pines Program Administrator, supervisor, or Medical Advisor that the fit of the respirator is unacceptable, the employee shall be given a reasonable opportunity to select a different respirator and to be re-tested.



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## 5.4 Use of Respirators

### 5.4.1 Task and Respirator Assignment

Only individuals with current medical clearance and current fit test may be assigned to task(s) requiring the use of respirators. The Shift Team Leader will verify the status of an individual's respirator medical clearance as follows:

- Open the Coosa Portal
- Navigate to Safety and Health > Safety Training > Respirator Qualified Employees

### 5.4.2 Emergency Conditions

- Escape respirators shall be used to immediately evacuate an area when an emergency condition occurs.
- Work in emergency conditions that are IDLH require that air supplied respirators be worn and the buddy system work practice followed.
- Responding to control hazardous chemical leaks require special respiratory protection. Trained Hazmat Technicians handle this work activity.

### 5.4.3 Atmosphere Exceeds Permissible Limits

- When work procedures have the potential to expose individuals to air contaminants at a concentration above the OSHA permissible exposure limits (PEL), or during emergency situations when engineering control methods are not available, respirators are required.
- Employees performing tasks not specifically listed in **ATTACHMENT 2**, that have a respiratory exposure similar to those listed, are expected to notify department supervision for guidance on what respiratory protection is required. It is the department's responsibility to notify the Program Coordinator when revisions to **ATTACHMENT 2** are needed.

### 5.4.4 Air Supplied Respirators will be required:

- When an employee may be exposed to a contaminant at a concentration that may exceed published values considered immediately dangerous to life or health (IDLH);
- When the concentration of air contaminants is unknown.

### 5.4.5 Procedures for Immediately Dangerous to Life and Health (IDLH) Atmospheres

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When work requires employees to enter an IDLH atmosphere:

- The buddy system (see definition) work practice will be followed;
- Employees located outside the IDLH atmosphere will be trained and equipped to provide effective emergency rescue;
- Employees located outside the IDLH atmosphere will be dressed in the same PPE as the employees entering the IDLH area and will don an SCBA (standby persons won't "go on air" until needed);
- Visual, voice or signal line communication will be maintained between the employees outside the IDLH atmosphere and the employees inside the IDLH atmosphere;
- The ERT will be notified before employees enter an IDLH atmosphere.

#### 5.4.6 Fitting of Respirator

- Employees using respirators with tight-fitting face pieces must be clean shaven (see **ATTACHMENT 4**).
- Ordinary eye glasses shall not be worn with full face piece respirators. Special corrected lens with appropriate mounting brackets attached to the full face piece respirator will be provided by Coosa Pines on an as-needed basis.
- Contact lenses may be used with full face piece respirators. Coosa Pines will not supply contact lenses or be responsible for contact lenses used under these conditions.
- The employee shall perform a user seal check each time they put on the tight-fitting respirators respirator.

#### 5.4.7 Continuing Respirator Effectiveness

- Each Shift Team Leader will be responsible for observing the work area conditions and degree of employee exposures or stress. When there are changes in work area conditions or degree of employee exposure or stress that may affect respirator effectiveness, the effectiveness of the respirator will need to be reevaluated.
- Employees will be directed to leave the respirator use areas for the following:
  - To wash their faces and respirator face pieces as necessary to prevent eye or skin irritation associated with respirator use;

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- If they detect vapor or gas breakthrough, changes in breathing resistance, or leakage of the face piece, the employee will not be allowed back into the respirator use area until the respirator is repaired or replaced;
- To replace the respirator or its filter, cartridge or air cylinder.

## 5.5 Maintenance and Care of Respirators

### 5.5.1 Cleaning and Disinfecting

- Coosa Pines shall provide each respirator user with a respirator that is clean, sanitary, and in good working order. Coosa Pines will ensure that employees are trained on how to clean and disinfect their respirators. The respirators shall be cleaned and disinfected at the following intervals:
  - Respirators issued to more than one employee shall be cleaned and disinfected before being worn by different individuals;
  - Respirators maintained for emergency use shall be cleaned and disinfected after each use;
  - Respirators used in fit testing and training shall be cleaned and disinfected after each use.

### 5.5.2 Storage

- All respirators shall be correctly stored to protect them from damage, contamination, dust, sunlight, extreme temperatures, excessive moisture, damaging chemicals, and to prevent deformation of the face piece and exhalation valve.
- The respirators shall be kept within quick and easy access to the work area, stored in the storage box provided in accordance with any applicable manufacturer instructions.

### 5.5.3 Inspection

- Employees shall inspect respirators used in routine situations before each use and during cleaning.
- Respirators used for emergency situations shall be inspected every 30 days in accordance with the manufacturer's recommendations and shall be checked for proper function before and after each use.
- Emergency escape only respirators shall be inspected before being carried into the workplace for use.

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- Emergency air supplied respirators shall be inspected after every use.
- Respirator inspections include a check of the respirator function, tightness of connections, and the condition of the various parts including, but not limited to, the face piece, head straps, valves, connecting tube, and cartridges, canisters or filters.
- The face piece tightening straps should also be checked for pliability and signs of deterioration.

#### 5.5.4 Repairs/Discards

- The Program Coordinator will ensure that respirators failing an inspection or are found to be defective are removed from service immediately.
- 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 that respirator.
- Repairs shall be made according to the manufacturer's recommendations and specifications for the type and extent of repairs to be performed.
- Reducing and admission valves, regulators, and alarms shall be adjusted or repaired only by the manufacturer or a technician trained by the manufacturer.

### 5.6 Breathing Air Quality, Quantity and Flow for Respirators

- 5.6.1 Coosa Pines shall ensure that compressed air used for respirators complies with the following specifications:
- Compressed breathing air shall meet at least the requirements for Type 1-Grade D breathing air described in ANSI/Compressed Gas Association Commodity Specification for Air, G-7.1-1989;
  - Cylinders are tested and maintained as prescribed in the Shipping Container Specification Regulations of the Department of Transportation (49 CFR part 173 and part 178);
  - Cylinders of purchased breathing air have a certificate of analysis from the supplier that the breathing air meets the requirements for Type 1-Grade D breathing air.
- 5.6.2 Coosa Pines shall ensure that breathing air couplings are incompatible with outlets for non-respirable worksite air or other gas systems. No asphyxiating substance shall be introduced into breathing airlines.
- 5.6.3 Coosa Pines shall use breathing gas containers marked in accordance with the

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NIOSH respirator certification standard, 42 CFR Part 84.

5.6.4 SCBA air cylinders shall be changed after each use. The cylinders shall be delivered to the air cylinder storage room on the west side of Stores. Leave the used cylinders in the designated racks and replace with a fully charged cylinder.

5.6.5 ONLY trained personnel are qualified to fill SCBA cylinders.

**5.7 Filters and Cartridges**

5.7.1 Filter and cartridge type respirators shall not be used in any oxygen deficient atmospheres.

5.7.2 All filters and cartridges used shall be labeled and color coded with the NIOSH approval label. The label shall be legible and not be removed.

5.7.3 Employees should verify that the cartridges issued to them are intended for the specific hazard to which they may be exposed.

5.7.4 Cartridges shall be changed or removed from service in accordance with manufacturer's instructions.

**6.0 TRAINING**

6.1 Individuals who use respirators shall be trained in the proper application, maintenance and limitations of the respirators annually. Individuals shall demonstrate knowledge of at least the following:

6.1.1 Why the respirator is necessary and how improper fit, usage or maintenance can compromise the protective effect of the respirator;

6.1.2 What the limitations and capabilities of the respirator are;

6.1.3 How to use the respirator effectively in emergency situations, including situations in which the respirator malfunctions;

6.1.4 How to inspect, put on, remove, use, and check the seal of the respirator;

6.1.5 What the procedures are for cleaning, maintaining and storing of the respirator, including frequency of filter or cartridge/canister change;

6.1.6 How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators;

6.1.7 The general requirements of the OSHA Respirator Standard and this Procedure.

6.2 The training shall be conducted in a manner that is understandable to the individual.

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- 6.3 Training will be completed prior to the individual using a respirator in the workplace.
- 6.4 Retraining shall be administered annually and/or when the following situations occur:
  - 6.4.1 Changes in the workplace or the type of respirator render previous training obsolete;
  - 6.4.2 Inadequacies in the employee's knowledge or use of the respirator indicate that the employee has not retained the requisite understanding or skill;
  - 6.4.3 Any other situation arises in which retraining appears necessary to ensure safe respirator use.
- 6.5 The basic advisory information on respirators, 29 CFR 1910.134 Appendix D) OSHA Respiratory Protection, Information for Employees Using Respirators When not Required, shall be provided to employees who wear respirators when such use is not required by this section or by Coosa Pines (**ATTACHMENT 5**).

**7.0 RECORD KEEPING:**

Coosa Pines has established the following procedure to retain written records required on this program.

- 7.1 Human Resources will retain all medical evaluation records.
- 7.2 The Program Coordinator will retain the following documents:
  - 7.2.1 Employee's report of fit test for each respirator used;
  - 7.2.2 Employee's record of successful completion of training on each type of respirator used;
  - 7.2.3 Record of hydrostatic tests of compressed air (SCBA) bottles;
  - 7.2.4 Certification of air supplier's compressor systems.
- 7.3 Written materials required to be retained under this paragraph shall be made available upon request to affected employees and to the Assistant Secretary of Labor for OSHA or their designee for examination and copying

**8.0 PROGRAM EVALUATION**

- 8.1 The effectiveness of the respiratory protection program will be evaluated annually by the Program Administrator to ensure compliance with federal and state regulations. The Program Administrator will conduct evaluations of the workplace to ensure that the provisions of the current written program are being effectively implemented.
- 8.2 The Program Administrator will regularly consult with employees affected by this program to

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assess the employees' views on program effectiveness and to identify problems. Factors to assess include, but are not limited to those shown below:

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

**9.0 REFERENCES**

- 9.1 (29 CFR 1910.134) OSHA Respiratory Protection.
- 9.2 (29 CFR 1910.134 Appendix A) OSHA Respiratory Protection, Fit Testing Procedure [Mandatory].
- 9.3 (29 CFR 1910.134 Appendix B) OSHA Respiratory Protection, User Seal Check Procedures [Mandatory].
- 9.4 (29 CFR 1910.134 Appendix C) OSHA Respiratory Protection, Medical Evaluation Questionnaire [Mandatory].
- 9.5 (29 CFR 1910.134 Appendix D) OSHA Respiratory Protection, Information for Employees Using Respirators When not Required [mandatory].
- 9.6 (CPL 02-02-054) OSHA Respiratory Protection, Respiratory Protection Program Guidelines.
- 9.7 (29 CFR 1910.155) OSHA Fire Protection.
- 9.8 (42 CFR 84) NIOSH Respirator Certification.
- 9.9 (49 CFR 173 & 178) DOT Compressed Gas Cylinders.
- 9.10 (G-7.1-1989) ANSI/Compressed Gas Association Commodity Specification for Air.

**10.0 ATTACHMENTS**

- 10.1 Attachment 1 – Record of Revisions
- 10.2 Attachment 2 – Respirators and Use, Hazards/Approved Respirator, Respirators/Parts in Stores, Work Activity/Respirator
- 10.3 Attachment 3 – Employee Respirator Medical Evaluation Questionnaire, Supplemental Information for the Medical Advisor

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10.4 Attachment 4 – Clean Shaven Examples

10.5 Attachment 5 – Information for Employees Using Respirators When Not Required Under the Standard

**11.0 APPENDICES**

11.1 Appendix A – Definitions





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## ATTACHMENT 2

### RESPIRATORS and USE

RESPIRATOR	FILTER	HAZARD	COMMENTS
<b>NON-IDLH ATMOSPHERE WORK</b>			
Honeywell Disposable Mouth Bit	One type Activated Carbon used for ACID GAS	Chlorine Chlorine Dioxide Hydrogen Hydrogen Sulfide Sulfur Dioxide	Escape Only Single Use Dispose
3 M 6000 Half Face Piece	3 M 6001	Organic Vapors	<b>WORK</b>
	3 M 2097 HEPA Filter	Particulates Nuisance level Organic Vapors	<b>WORK</b>
<b>WARNING: To be used ONLY in conjunction with Atmospheric Monitor.</b>			
Scott AV-2000/AV-3000 Full Face Piece	Scott 642-OV	Organic Vapor	<b>WORK</b>
	Scott 642-P100 HEPA Filter	Particulate (99.97 %) Dusts, NO VAPORS	<b>WORK</b>
	Scott 642-AG	Acid Gas	<b>WORK</b>
<b>WARNING: To be used ONLY in conjunction with Atmospheric Monitor.</b>			
<b>IDLH ATMOSPHERE WORK</b>			
Survivair EBA-5 Escape Respirator	Compressed Air	All Hazards	Escape Only 5 Minute Compressed Air Supply Refillable tank
Scott Pressure-Pak 2.2	Compressed Air (SCBA)	All Contaminants	<b>WORK</b> 30 Minute Air Supply
Air Line Supplied Scott Ska-Pak	Air Line Supplied	All Contaminants	<b>WORK</b> Air Line Supplied Air Includes 5 Minute Rescue Tank

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**ATTACHMENT 2 (cont.)  
HAZARDS and APPROVED RESPIRATOR**

HAZARD	CONCEN	RESPIR	CARTR	NOTES
<b>Chlorine Dioxide (toxic gas)</b>	Escape	Honeywell Mouth Bit	Self Contained	ESCAPE ONLY
		Survivair EBA-5	Compressed Air	ESCAPE ONLY
	<5 ppm	Scott AV-2000/AV-3000	Scott 742-AG	Assemble mask with Adaptor Model-74
	>5 ppm and above	Scott Pressure-Pak(SCBA)	Compressed Air(SCBA)	
		Air Line Supplied Scott Ska-Pak	Air Line Supplied	Has a 5 Minute Escape Tank
<b>Hydrogen Sulfide (toxic gas)</b>	Escape	Honeywell Mouth Bit Survivair EBA	Self Contained	ESCAPE ONLY
	Any level of concentration > 10 ppm	Scott Pressure-Pak(SCBA)	Compressed Air (SCBA)	
		Air Line Supplied Scott Ska-Pak	Air Line Supplied	Has a 5 Minute Escape Tank
<b>TRS (Toxic-Gasses)</b>		Scott AV-2000/AV-3000	Scott 742 -OV	Assemble mask with Adaptor AD-74
		Scott Pressure-Pak(SCBA)	Compressed Air (SCBA)	
		Air Line Supplied Scott Ska-Pak	Air Line Supplied	Has a 5 Minute Escape Tank
<b>Dusts, Fumes &amp; Mists</b>	100mg/m3	3 M Half Face Piece	3M 2097 HEPA Filter	Assemble
	500mg/m3	Scott AV-2000/AV-3000	Scott 742-P100 HEPA Filter	Assemble mask with Adaptor Model-74
<b>Asbestos</b>	Unknown amount Asbestos fibers	Half Mask or Full Face Piece	HEPA Filter	Assemble mask with Adaptor Model-74
<b>Disease Organisms Bird &amp; Animal Droppings</b>		Scott AV-2000/AV-3000	Scott 742-P100 HEPA Filter	Assemble mask with Adaptor Model-74
<b>Sulfuric Acid</b>		Scott AV-2000/AV-3000	Scott 742-AG	Assemble mask with Adaptor Model-74
<b>Strip Methanol</b>		Organic Vapor		
<b>Methanol</b>				
<b>Turpentine</b>		Scott AV-2000/AV-3000	OV-742	

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**ATTACHMENT 2 (cont.)**

**RESPIRATOR and PARTS AVAILABLE from STORES**

RESPIRATOR	COOSA PINES PART #	Mfg. Part #
<b>SURVIVAIR</b>		
Survivair Disposable Mouth Bit	165759	23C-1416
<b>3M</b>		
3 M 6100 Half Face Piece (S)	164132	
3 M 6200 Half Face Piece (M)	164131	
3 M 6300 Half Face Piece (L)	164130	
3 M 6001 Organic Vapor Cart.	168627	
3 M 2097 HEPA Filter	xxxxx	
<b>SCOTT</b>		
Scott AV-2000 Full Face Piece	xxxxx	
Scott 642-OV	162103	
Scott 642-P100 HEPA Filter	xxxxx	804661-01
Scott 642-AG	xxxxx	
Scott Adaptor Model-65	208475	804057-01
Head Harness Assembly (Kevlar)	xxxxx	P/N 804177-01
Chin Strap Assembly	208477	804176-01
Temple Strap Assembly	208476	804178-01
Buckle Assembly	xxxxx	803732-01
Hardware Kit Components	xxxxx	P/N 26977-01
<b>MISCELLANEOUS ITEMS</b>		
Respirator Storage Container	xxxxx	Xxxxxx
<b>AVAILABLE in AIR CYLINDER STORAGE ROOM - WEST SIDE of STORES</b>		
Survivair EBA-5 Escape Respirator	Complete replacement unit available	
Scott Pressure-Pak 2.2	30 Minute Air Cylinder available	
Air Line Supplied Scott Ska-Pak	5 Minute Air Cylinder available	

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**ATTACHMENT 2 (cont.)**

**WORK ACTIVITY and RESPIRATOR**

Location	Work Activity	Hazard	Concentration	Respirator
Maintenance	Line Break	CLO2	< IDLH	Full Face Mask with proper cartridge
		TRS		
		CLO2 Hydrogen sulfide TRS	> IDLH	Full Face Mask with Air Supplied
	Confined Space	CLO2 Hydrogen sulfide TRS	Unknown	Full Face Mask with Air Supplied
	Welding	Fumes, Mists and Dusts from welding rod	Unknown	Follow respiratory requirements of MSDS
Effluent Lift Pump Station	All Work Activity	Potential for Hydrogen sulfide	< PEL	Escape Respirator at all times
			> PEL	Full Face Mask with Air Supplied
Effluent Process across River Waste Treatment		Potential for Hydrogen sulfide	< PEL	Escape Respirator at all times
			> PEL	Full Face Mask with Air Supplied
General Plant Areas	Maintenance Operations	Hydrogen Sulfide CLO2	>10 ppm >5 ppm	Air Supplied Respirator ONLY
	Asbestos Removal	Asbestos fibers and other dusts	Unknown	Half Mask or Full Face Piece with HEPA Filter
	<b>Emergency Operations</b>	<b>Any Toxic Gas</b>	<b>Unknown</b>	<b>Air Supplied Respirator ONLY</b>
	Clean Area of Pigeon Droppings	Bacteria	Unknown	Half Mask with HEPA filter
	Welding	Fumes, and Dusts from welding rod	Unknown	Follow MSDS requirements

**Hazards not listed, use the SDS and Required Respiratory Protection**



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### ATTACHMENT 3

#### EMPLOYEE RESPIRATOR MEDICAL EVALUATION QUESTIONNAIRE

*The employee is to complete the Medical Questionnaire and submit to the Medical Advisor. This information will be maintained in accordance with the Medical Privacy Requirements.*

This form is available electronically on the Coosa Portal under Safety and Health/Forms/General Forms/Respirator Questionnaire.

#### SUPPLEMENTAL INFORMATION FOR THE MEDICAL ADVISOR

The following information must be provided to the Medical Advisor before the Medical Advisor makes a recommendation concerning an employee's ability to use a respirator. This information will be Job Title Specific and will be provided by the Department Manager, Team Leader and Program Coordinator.

1. The type and weight of the respirator to be used by the employee;
2. The duration and frequency of respirator use (including use for rescue and escape);
3. The expected physical work effort;
4. Additional protective clothing and equipment to be worn; and
5. Temperature and humidity extremes that may be encountered.

The Medical Advisor also shall be provided with a copy of this Coosa Pines Respiratory Protection Program and a copy of OSHA 29 C.F.R. §1910.134(e). Any supplemental information provided previously to the Medical Advisor regarding an employee need not be provided for a subsequent medical evaluation if the information and the Medical Advisor remain the same.

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**ATTACHMENT 4**

**Face to Facepiece Seal Area (Clean Shaven)**

# Facial Hair & Respiratory Protection



The shaded areas are the respirator seal areas. Facial hair is **not permitted** on parts of the face.

**Acceptable**



Clean shaven



Narrow mustache

**Unacceptable**



Full beard



Narrow mustache and beard



Wide mustache and beard



Extended sideburns



Long mustache



Wide mustache



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**ATTACHMENT 5**

**INFORMATION FOR EMPLOYEES USING RESPIRATORS  
WHEN NOT REQUIRED UNDER THE STANDARD**

Respirators are an effective method of protection against designated hazards when properly selected and worn. However, if a respirator is used improperly or not kept clean, the respirator itself can become a hazard to the employee

Employees may wear respirators to avoid exposures to hazards, even if the amount of hazardous substance does not exceed the limits set by OSHA standards. Should you voluntarily use a Coosa Pines respirator, you must take certain precautions to be sure that the respirator itself does not present a hazard.

You must do the following:

1. Read and follow all instructions provided by the manufacturer on use, maintenance, cleaning and care, and **warnings** regarding the respirators limitations.
2. Choose respirators certified for use to protect against the contamination 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.
3. Do not wear your respirator into atmospheres containing contaminants for which your respirator 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.
4. Keep track of your respirator so that you do not mistakenly use someone else's respirator.

DATE \_\_\_\_\_

NAME \_\_\_\_\_

DEPARTMENT MANAGER or TEAM LEADER

NAME \_\_\_\_\_



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## APPENDIX A DEFINITIONS

**Ambient air** – the air that is naturally in the environment. The air you are currently breathing.

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

**Atmosphere-Supplying Respirator** - a respirator that supplies the respirator user with breathing air from a source independent of the ambient atmosphere, and includes supplied-air respirators (SARs) and self contained breathing apparatus (SCBA) units.

**Buddy System** - as used in an IDLH atmosphere at Coosa Pines Mill. At least two employees shall enter the IDLH atmosphere while at least two employees remain outside. The employees that enter the IDLH atmosphere shall use SCBAs and shall remain in visual or voice contact with each other at all times. The employees outside shall remain in visual or voice contact with those employees inside and have appropriate Personal Protective Equipment for rescue in an IDLH Atmosphere.

**Canister or Cartridge** - a container with a filter, sorbent or catalyst or combination of these items which removes specific contaminants from the ambient air as it is passed through the container.

**Clean Shaven** – a daily shave of all facial hair. Mustaches that do not extend below the lip line and are not “handlebar” may remain.

**Demand Respirator** - an atmosphere-supplying respirator that admits breathing air to the face piece only when a negative pressure is created inside the face piece by inhalation.

**Emergency Respirator Situation** - 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** - 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)** - a system that warns the respirator user of the approach of the end of adequate respiratory protection, for example, the sorbent is approaching saturation or is no longer effective.

**Escape Respirator** - a respirator intended to be used only for emergency exit from a hazardous atmosphere (respirator effective use time is limited).

**Filter or Air Purifying Element** - a component used in respirators to remove solid or liquid aerosols from the air.

**Filtering Face Piece (dust mask)** - a negative pressure particulate respirator with a filter as an integral part of the face piece or with the entire face piece composed of the filtering medium.

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**Fit Factor** - 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** - the use of a protocol to qualitatively or quantitatively evaluate the fit of a respirator on an individual.

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

**High Efficiency Particulate Air (HEPA) Filter** – a filter that is at least 99.97% efficient 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** - 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 and Health (IDLH)** - 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. Further defined as (a) O<sub>2</sub> deficient (below 19.5 % Oxygen), (b) O<sub>2</sub> enriched (above 23.5% Oxygen), or (c) the concentration of a gas is unknown. Air Supplied Respirators (SCBA) will not be removed until air sampling confirms a safe atmosphere.

**Interior Structural Firefighting** - 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 Face Piece** - a respiratory inlet covering designed to form a partial seal with the face.

**Medical Advisor** - physician or other licensed health care professional (PLHCP) 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 29 CFR 1910.134.

**Negative Pressure Respirator (tight fitting)** - a respirator in which the air pressure inside the face piece is negative during inhalation with respect to the ambient air pressure outside the respirator.

**Oxygen Deficient Atmosphere** - an atmosphere with oxygen content below 19.5% by volume.

**Oxygen Enriched Atmosphere** – an atmosphere with oxygen content above 23.5 % by volume.

**Positive Pressure Respirator** - a respirator in which the pressure inside the respiratory inlet covering exceeds the ambient air pressure outside the respirator.

**Pressure Demand Respirator** - a positive pressure atmosphere-supplying respirator that admits breathing air to the face piece when the positive pressure is reduced inside the face piece by inhalation.

**Program Administrator** - person who is qualified by appropriate training and/or experience that is

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commensurate with the complexity of the program to administer or oversee the respiratory protection program and conduct the required evaluations of program effectiveness. The Safety Manager will be the Program Administrator for the Coosa Pines Respiratory Protection Program.

**Quantitative Fit Test (QNFT)** - an assessment of the adequacy of respirator fit by numerically measuring the amount of leakage into the respirator.

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

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

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

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

**Tight-Fitting Face Piece** - a respiratory inlet covering that forms a complete seal with the face.

**User Seal Check** - an action conducted by the respirator user to determine if the respirator is properly seated to the face.