CITY OF APPLETON PERSONNEL POLICY	TITLE: Respirator Protection (29CFR 1910.134)		
ISSUE DATE: 1994	LAST UPDATE: April 2002 June 2006 February 2010 (form only) August 2012 <u>2018</u>	SECTION: Safety	
POLICY SOURCE: Human Resources Department	AUDIENCE: Employees who wear a respirator	TOTAL PAGES: 18	
Reviewed by Attorney's Office Date: March 5, 2002 December 8, 2006 July 31, 2012 <u>, May 2018</u>	Committee Approval Date: March 8, 2002 January 24, 2007 September 24, 2012	Council Approval Date: March 15, 2002 February 7, 2007 October 3, 2012	

I. PURPOSE:

To coordinate the use and maintenance of respiratory protection equipment which is used to reduce employee exposure to air contaminants.

II. POLICY:

City Policy & 29 CFR 1910.134 requires that employees who use a respirator be properly trained, <u>fit tested and have proper medical clearance</u> to reduce their exposure to contaminants.

III. DISCUSSION:

The guidelines in this policy are designed to help reduce employee exposure to occupational air contaminants and oxygen deficiency. The primary objective is to prevent excessive exposure to these contaminants.

IV. DEFINITIONS:

- A. Donned: Put on and secure.
- B. DWD: Department of Workplace Development.
- C. ESLI: End of Service life indicator.
- D. IDLH: Immediately dangerous to life or health.
- E. NIOSH: National Institute of <u>Occupational</u> Safety and Health that deals with research.
- F. OSHA: Occupational Safety & Health Administration
- G. QLFT: Qualitative fit test.
- H. QNFT: Quantitative fit test.
- I. P/APR: Powered/ air-purifying respirator.
- J. APR/ Air-purifying respirator.
- K. PLHCP: Physician or other licensed health care professional

- L. SAR: Supplied Air Respirator.
- M. SCBA: Self-Contained breathing apparatus.
- N. APF: Applied Protection Factor

V. PROCEDURES:

A. RESPONSIBILITIES: The overall administration of the Respiratory Protection Program will be the responsibility of the Human Resources Generalist/Safety Coordinator. Each City department/division that uses respirators will appoint an individual to administer and monitor their program. The following departments/divisions will enforce a respirator program.

Department	<u>Example</u> Job Task <u>s</u>	Program Administered by
Police	Gas mask, tear gas exposure T.B. exposure-first responder Investigators	Lieutenant -Support Services Coordinator
	China	
<u>Utilities Department</u> Wastewater	ChlorineChemical handling, confined space, other tasks See current PPE roster	WW Operations Supervisor
Parks, Recreation and Facilities Management	Confined space, painting, welding, chlorine handling, painting, pesticides , asbestos concrete saw/drill/chip/grind	Facilities Manager/Grounds Manager
DPW - Municipal Garage	Confined space, painting, welding, concrete saw/drill/chip/grind	Operations Supervisor/Safety Coordinator
Fire	Fire fighting, hazardous materials, rescue operations TB - enter homes placed on respiratory precautions	Battalion Chief/ Training<u>Resource</u> Development & Special Operations
<u>Utilities Department</u> Water Filtration	ChlorineChemical handling, confined space, bulk chemical handlingsee current Plant PPE roster	Water Operations Supervisor
Valley Transit	Painting, welding	Maintenance Supervisor
Health	T.B. exposure, pathogens, organisms	R.N. SupervisorPublic Health Supervisor
Water Distribution	Asbestos	Meter Service personnel

Responsibilities at each department/division include:

- 1. Identifying and locating hazardous exposures.
- 2. Respirator selection.
- 3. Medical evaluation of respirator users (Human Resources Generalist/ Safety Coordinator will coordinate).
- 4. Employee training and qualitative respirator fit testing (Qualified fire and/or specific designee personnel, or qualified product providers will assist).
- 5. Cleaning, maintenance and storage of respirators.
- 6. Evaluation of overall respirator program.
- 7. Where respirator use is required.

B. IDENTIFICATION AND LOCATION OF AIR CONTAMINANT EXPOSURES

- 1. Based on a comprehensive industrial hygiene evaluation conducted by the various city departments, as currently identified, potential hazardous air contaminant exposures are summarized in Exhibit I. Additional air contaminant monitoring will be conducted during confined space entry whenever exposures are possible.
- 2. Each department that enters a confined space will conduct this monitoring. Subsequent information will be added as it is accumulated (the Fire Department will administer their respirator program and will maintain their training records).
- 3. Respirator Selection: All respirators shall be selected based on the criteria established by current OSHA regulations. Only respirators having NIOSH approval shall be used. Exhibit I also lists respirators currently being used by specific departments/divisions.

C. MEDICAL FORM AND EXAM

- 1. Employees who are required to use a respirator will complete a medical questionnaire yearly (Exhibit II).
- 2. SCBA users will complete a medical questionnaire yearly (Exhibit II). An exam by the City's health care provider will be scheduled based on prior history (ranging in frequency from yearly to every 5 years). Based on the finding of the medical exam and pulmonary function test the physician may also order an EKG or chest x-rays.
- Non SCBA users may be required to undergo a medical exam and pulmonary function test based on a review of the completed medical form. (A medical professional will determine this). A physician may also require an EKG and chest x-rays.

D. TRAINING AND INFORMATION

- 1. Each department/division that requires the use of a respirator shall ensure that each employee can demonstrate knowledge of the following (see Exhibit III):
 - a. Why the respirator is necessary and how improper fit, usage, or maintenance can compromise the protective effect of the respirator.
 - b. What the limitations and capabilities of the respirator are.
 - c. How to use the respirator effectively in emergency situations, including situations when the respirator malfunctions.
 - d. How to inspect, put on and remove, use and check the seals of the

respirator.

- e. Procedures for the maintenance and storage of the respirator.
- 2. On an annual basis, training shall be conducted in a manner that is understandable to the employee. Each department will provide their own training. This shall be done prior to requiring the employee to use a respirator in the workplace.
- 3. Procedures for IDLH atmospheres: Employees who wear an SCBA are to refer to the Confined Space Policy for specific rules relating to entry.
- 4. Procedures for interior structural fire fighting (this applies only to Firefighters):
 - a. In an interior structural fire, the city shall ensure that:
 - At least two employees enter the IDLH atmosphere and remain in visual or voice contact with one another at all times.
 - At least two employees are located outside the IDLH atmosphere.
 - All employees engaged in interior structural firefighting use SCBAs.

E. FIT TESTING

- 1. Each major department/division that utilizes respirators shall conduct annual fit testing, for each type of respirator the employee is required to wear, using the following procedures and complete the "Respirator Fit Test form" (see Exhibit IV).
- 2. Requirements:
 - a. The employee shall be allowed to pick the most acceptable respirator from a sufficient number of respirator models and sizes.
 - b. Prior to the selection process, the employee shall be shown how to put on a respirator, how it should be positioned on the face, how to set strap tension and how to determine an acceptable fit.
 - c. The employee shall be informed that he/she is being asked to select the respirator that provides the most acceptable fit.
 - d. Each employee shall be instructed to hold each chosen face piece up to the face to eliminate a poor fit.
 - e. After a respirator is selected, it should be donned and worn at least five minutes to assess comfort.
 - f. Assessment of comfort shall include:
 - Position of mask on nose
 - Room for eye protection
 - Room to talk
 - Position of mask on face and cheeks
 - Tendency of respirator to slip
 - Self observation in mirror to evaluate fit and respirator position
 - g. The test <u>shall not</u> be conducted if there is any hair growth between the skin and the face piece sealing surface such as stubble, beard growth, beard, mustache or sideburns which cross the respirator sealing surface.
 - h. User seal check: A user seal check is required every time the wearer puts on a respirator. The purpose is to confirm the respirator is properly donned and properly sealed to the face.

F. RESPIRATOR CLEANING, MAINTENANCE AND STORAGE:

- 1. Cleaning and maintenance of respirators will be the responsibility of each major department/division utilizing respirators. The individual appointed to monitor the program shall on a monthly basis inspect and document that the inspection was done (see Exhibit V for sample form to use). The information will include:
 - a. Respirator type
 - b. Manufacturer
 - c. Date in service
 - d. <u>Monthly</u> inspection date
- 2. Procedures for cleaning, maintenance, storage and inspection are the following:
 - a. Respirators must be washed and disinfected after each day of use.
 - b. Remove paint accumulation.
 - c. Store in a plastic film bag and carton or approved mask bag.
 - d. Inspect the respirator with each use.
 - e. Replace parts from the same manufacturer.

G. RESPIRATOR PROGRAM EVALUATION:

- 1. Each department on an annual basis will conduct the overall evaluation of the respirator program (see Exhibit VI). This evaluation will include inspection of records, observation of user proficiency, and random inspection of respirators for cleanliness, deterioration, proper selection and storage.
- 2. A record of the evaluation will be recorded, and these records will remain within the department and be readily accessible in the event of an on-site inspection.

RESPIRATOR SELECTION SUMMARY

Location	Operation	Air Contaminants	Respirator	NIOSH Approval Number
Wastewater (see confined space entry policy)	Confined Space Entry	Lack of Oxygen Combustible Gas Hydrogen Sulfide/ Carbon Monoxide	SCBA	TC-13F-30
Wastewater Chlorine Storage Room "L" Building	Changing ton cylinders of Chlorine	Chlorine Gas	SCBA	TC-13F-30
Wastewater Sulfur Dioxide Storage Room "C" Building	Changing ton cylinders of Sulfur Dioxide	Sulfur dioxide Gas	SCBA	TC-13F-30
Wastewater Caustic Room"D" Building	Potassium Hydroxide handling	Potassium Hydroxide	Dust Mask	TC-21C-132
Wastewater <u>"B"</u> <u>Building</u> <u>Lime area of</u> Grit & Screen <u>"B" Building</u>	Calcium Hydroxide (Lime) handling	Calcium Hydroxide	<u>3M N100 Particulate</u> <u>Respirator</u> Dust Mask	TC-21C-132 <u>TC-84A-1298</u>
<u>Wastewater "B"</u> <u>Building</u> <u>Sampler Room</u>	Sulfuric Acid Hydrochloric Acid Sampler Cleaning	Sulfuric Acid Hydrochloric Acid	<u>Chemical Cartridge</u> <u>MSA UltraTwin APR</u> <u>with COMFO GMC</u> <u>Cartridge</u>	<u>TC-23C-47</u> <u>TC-23C-0146</u>
<u>Wastewater "J"</u> <u>Building</u>	Sulfuric Acid Hydrochloric Acid Sampler Cleaning	<u>Sulfuric Acid</u> Hydrochloric Acid	<u>Chemical Cartridge</u> <u>MSA UltraTwin APR</u> with COMFO GMC <u>Cartridge</u>	TC-23C-47 TC-23C-0146
Wastewater "K" <u>Building</u> Gas Compressor <u>Room</u>	Potassium Hydroxide (Caustic) handling	Potassium Hydroxide	Dust Mask MSA UltraTwin APR with COMFO GMC Cartridge	<u>TC-21C-132</u> <u>TC-23C-0146</u>
Wastewater "V" Building BFP Room	<u>Sulfuric Acid</u> <u>Hydrochloric Acid</u> <u>Belt Wash</u>	Sulfuric Acid Hydrochloric Acid	<u>Chemical Cartridge</u> MSA UltraTwin APR with COMFO GMC Cartridge	<u>TC-23C-47</u> <u>TC-23C-0146</u>
Wastewater <u>"V2"</u> <u>Building</u> BFP Room "V" Building	<u>Biosolids Storage</u> <u>Cleaning</u> Sulfuric Acid Belt Wash	DustsSulfuric Acid	<u>3M N100 Particulate</u> <u>Respirator Chemical</u> Cartridge	<u>TC-84A-</u> <u>1298</u> TC-23C- 47
Police	SWAT	Tear Gas	Single cartridge tactical gas mask	TC-14G-159
	First Responder Investigators	TB Organic vapors	HEPA 6000 Filter/cartridge	N100 3m 60921
Valley Transit	Painting	Organic vapors	Supplied Air Respirator	1120 GR

Location	Operation	Air Contaminants	Respirator	NIOSH Approval Number
Park & Rec (see confined space policy)	Confined Space Entry Spraying pesticides Welding Concrete sawing, drill, grind, chipping	Lack of oxygen Combustible gas Hydrogen Sulfide/ Carbon Monoxide Organic vapors Gases Silica Dust	SCBA ???? APF 10 respirator 6000 series cartridge 9920 Dust/Fumes	TC-13F-30 TC-23C-1062 N <u>100</u> 95
Fire	Putting out fires Confined space First Responder Inspectors HazMat	Unknown Unknown T.B.Pathogens/ Organisms Dusts	SCBA SABA HEPA Cartridge PAPR APR	TC-13F-130 N100
Municipal Garage	Confined Space Entry Welding, Painting Concrete sawing, drill, grind, chipping	Lack of oxygen Combustible gas Hydrogen Sulfide Carbon Monoxide Silica Dust Organic Vapors	SAR APF 10 respirator	MSA 7-212-6 N100 N95,N100, 6000 Series/P100
Water Distribution	Removing asbestos	Asbestos		
Health Dept.	Communicable Disease	Biological organisms	НЕРА	N100

Location	Operation	Air Contaminants	Respirator	NIOSH Approval Number
All Locations	Painting	Paint Fumes	Cartridge Respirator	TC-23C-435
Water Plant CO ₂ alarm - Softener Gallery #005	CO2 Leak	Lack of Oxygen & CO ₂	SCBA	TC-13F-30
Water Plant Access Gallery	Acidizing PH Probes and			Yellow<u>TC-23C-0146</u>
#002 & Contactor Gallery #003	Turbidity Meters	Acid	Cartridge Respirator	Olive-<u>TC-84A-6702/TC-</u> 84A-0359 /- Magenta
Water Treatment Facility (see confined space policy)	(Level 2)	Lack of Oxygen Combustible Gas hydrogen Sulfide Carbon Monoxide	SCBA	TC-13F-30
Water Plant Lime Rooms			Dust Mask	N-100TC-84A-1298
#156 & 159	Checking Equipment	Lime Dust	Cartridge Respirator	P-100 / <u>TC-84A-</u> 0359Magenta
Water Plant Lime Feed		Acid		TC-23C-0146Yellow
Room #156, 159 & 153 Softening Room	Cleaning Equipment	Lime Dust / Acid	Cartridge Respirator	<u>TC-84A-6702</u> Olive / <u>TC-84A-0359</u> Magenta
	Disinfecting Water Towers	Calcium Hypochlorite	Cartridge Respirator	TC-23C-47 / <u>TC-23C-</u> <u>0146¥ellow</u>

Water Plant North Tower - Chlorine Feed	Disinfecting Water	Calcium Hypochlorite	Cartridge Respirator	TC-23C-47 / <u>TC-23C-</u> <u>0146</u> Yellow
Water Plant Carbon Room	Unloading Carbon	Carbon Dust	Dust Mask	<u>TC-84A-1298</u> N 100
#158	Cleaning Equipment	Carbon Dust	Cartridge Respirator	<u>TC-84A-1298</u> P-100-/ <u>TC-84A-0359</u> Magenta
Water Plant Tank Room - Fluoride Room #142	Precaution in Case of Spill	Fluorosicicic Acid	SCBA	TC-13F-30
Water Plant Tank Room #142	Cleaning Equipment	Sodium Hydroxide	Cartridge Respirator	<u>TC-84A-6702</u> Olive / <u>TC-84A-0359</u> Magenta
Water Plant Chemical		Ammonia, Fluroide,	Cartridge Respirator	<u>TC-84A-6702</u> Olive / <u>TC-84A-0359</u> Magenta
Sump Pit Room #142		Sodium Hydroxide, Sodium Hypochlorite	SCBA	TC-13F-30
Water Plant Chemical Room #155 - Polymer Feed	Cleaning Tank - Mist Present	Ciba LT25<u>AS1919</u>	Dust Mask	<u>TC-84A-1298</u> N-100
Water Plant Membrane	Clean in Place, Chemical	Hydrchloric Acid, Sodium		<u>TC-23C-0146</u> Yellow
Room # 151	·	Hydroxide, Koch Kleen	Cartridge Respirator	<u>TC-84A-6702</u> Olive / <u>TC-84A-0359</u> Magenta
Water Plant HVAC Chiller System Room #8	Chiller Refrigerant	SUVA 134a	SCBA	TC-13F-30
Water Plant Lake Pump Station -KMNO4 Room	Cleaning KMNO4 Room	Sodium Bifulfite Solutions 38%	Dust Respirator <u>Severe</u> <u>Case</u> SCBA	TC-21C-335
Water Plant Chemical Room #142	Cleaning Lines	Aqua Ammonia	SCBA	TC-13F-30
			SAR	
Water Plant Maintenance Shop Room #136	Sandblasting	Silica Sand & Dust	Dust Mask	<u>TC-84A-1298</u> N-100

EXHIBIT II (page 1 of 7)



RESPIRATOR USAGE INFORMATION ATTACHMENT B

Company Name:

JOB TITLE that this is being completed for:

{An employee may have two job descriptions which require a respirator to be worn. Example: An employee's fulltime job position is a pipe fitter, which he/she wears a respirator for, and this employee is ALSO a part of a first responder team, firefighter team, or Hazmat team. You would use the job description which has the highest potential for level of usage, which would be the first responder team, firefighter team, etc.}

Date Completed: Completed by:

Type of respirator used by employee 1.

- a._____ N, R, or P disposable respirator (filter-mask, non-cartridge type only)
- b._____ Half face piece type

c._____ Full face piece type; powered-air purifying

d Self Contained Breathing Apparatus (SCBA)

2. Frequency of Use

Duration of use

Never Seldom Monthly Daily	Rescue Escape Weekly	Less Than ¼ hour Less than ½ hour 1⁄2 hour to 1 hour More than 1 hour
Daily		

3. The expected physical work effort during the period of use of respirator

Level of use	Definition
Light	Sitting while writing, typing, drafting, or performing light assembly work; or standing while controlling machines
Moderate	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 35lbs) 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.
Heavy	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)

- 4. Any additional protective clothing and equipment to be worn YES / NO If yes please explain.
- 5. Will there be any temperature and humidity extremes that may be encountered YES/ NO

If yes, please explain.

EXHIBIT II (page 2 of 7)

Attachment B (continued)

THE DAS CARE

RESPIRATOR CLEARANCE EVALUATION DEFINITIONS To determine if usage is <u>Light</u>, <u>Moderately Strenuous</u>, or <u>Heavy</u>)

Our respirator approval is classified as a Level 1, Level II, Level III, or HazMat/Fire- fighting. This is based on the type of use, type of respirator and degree of effort.

The following is a definition of the effort levels we use:

LIGHT

- Less than 2 METS
- Examples: Sedentary work, light machine operation, bench top assembly work, sitting, small copper tooling, small assembly work, standing, sweeping floor, walking one mile an hour.

MODERATELY STRENUOUS

• 2-5 METS

• Examples: Auto repair, chisel carving with mallet, drill press operation, hammering nails, janitorial work, lathe operator. Painting, hand polishing, power sander operation, electronic assembly, scrubbing-standing, using manual hand tools, walking 2 miles an hour. Brick laying, cleaning windows, lifting 3-5 pound objects overhead repetitively, machine assembly, machinist-engineer, pushing the equivalent of a power lawn mower, planing soft wood, power hand sawing, pushing wheelbarrow with 100 pound load, scrubbing on knees, sweeping or raking, walking at 3 miles an hour, welding moderate load. Assembly line work, light carpentry and masonry, mopping floor painting, pushing a wheelbarrow of 115 pounds at 2.5 miles an hour, walking 3.5 miles per hour.

• HEAVY

• Greater than 5 METS

• Examples: Carrying 20 pounds, digging and mixing soil, pumping a tire by hand, walking 4 miles an hour, medium to heavy carpentry, carrying 50 pounds, shoveling for 10 minutes with 10 pounds per shovel load, sawing by hand, walking 5 miles an hour and carrying 80 pounds, jogging 5 miles per hour. Climbing stairs with 17 pound load, climbing then descending two flights of stairs, hand planing hard wood, shoveling 14 pounds per shovel load for 10 minutes, pushing furniture, lifting 85-100 pounds and climbing a ladder. Firefighting – Peak (12-14 METS).

EXHIBIT II (page 3 of 7)

THE	DAS2CA	RE [™]

ThedaCare At Work - Appleton 2809 N Park Drive Lane Appleton WI 54911 PHONE: (920) 380-4999 FAX (920) 380-4961 ThedaCare At Work - Oshkosh 600 N Westhaven DR Oshkosh, WI 54904 PHONE: (920) 237-5600 FAX: (920) 237-5601

OSHA Respirator Medical Evaluation Questionnaire (Mandatory)

If you have any questions, contact ThedaCare At Work - Appleton (920) 380-4999

To the employee:

Can you read (check yes or no):

🗌 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 supervisor 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.

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

1. Today's Date:_____ (month/day/year)

ar) Company Name:

2. Print Your Name:_____

Social Security #: _____ - ____ - _____

3. Address:_

4. Your Age (to	o nearest year):	5. Sex: Male / Female	 Your height: 	ft in
7. Your Weight	:pounds 8.`	Your Job Title:		
	mber where you can be rea Area Code): ()	ached by the healthcare profess 	ional who reviews this	questionnaire
Best time to	phone you at this number:	·		
	nployer told you how to co questionnaire (check yes	ntact the healthcare professiona or no):	al who will 🗌 Ye	s 🗌 No
11. Check the ty	pe of respirator you will us	se (you can check more than on	e category):	
Half- or full-f	P Disposable Respiration ace piece type, powered-ated breathing apparatus (SC		pe only)	
12. Have you w	orn a respirator? Yes	No If "yes," what type(s):		
	2. (Mandatory) Questions 1 any type of respirator (plea	through 9 below must be answe	red by every employee	who has been
			r = r = r = r	
•	•	ve you smoked tobacco in the la	st month: Ye s	s 🗌 No
2. Have you ev	ver had any of the following	g conditions?		
г				7
	Seizures (fits)		□ YES □ NO	
	Diabetes (sugar disease)		☐ YES ☐ NO	-
	Allergic reactions that inte		YES NO	-
Claustrophobia (fear of closed in places)			1	
Trouble smelling odors				
_				—
		g pulmonary or lung problems?		<u> </u>
Asbestosis		Silicosis		
Asthma		Pneumothorax (collapsed lung)		
Chronic Bronchitis Emphysema		Lung Cancer Broken Ribs		
Emphysema Pneumonia		Any chest injuries or surgeries		
Tuberculosis		Any other lung problem that you'	ve heen told about	
100010010313		Any other long problem that you		
4. Do you curre	ently have any of the follow	ving symptoms of pulmonary or	lung illness?	
Shortness of Breat				□ YES □ NO
		ground or walking up a slight hill or	ncline	
Shortness of breath				
Have to stop for bre	□ YES □ NO			
Shortness of breath	□ YES □ NO			
Shortness of breath	🗌 YES 🗌 NO			
Coughing that prod				
Coughing that wake				
Coughing that occu				
Coughing up blood	in the last month:			
Wheezing	force with your ich.			
Chest pain when yo	rferes with your job:			
	is that you think may be relate	ed to lung problems:		
<u> </u>				

Chest pain when you breathe deeply: Any other symptoms that you think may be related to lung problems:

5. Have you ever had any of the following cardiovascular or heart problems?

Heart attack	YES NO	Swelling in your legs or feet (not caused by walking)	YES NO
Stroke	□ YES □ NO	Heart arrhythmia (heart beating irregularly)	🗌 YES 🗌 NO
Angina	□ YES □ NO	High blood pressure	🗌 YES 🗌 NO
Heart Failure	□ YES □ NO	Any other heart problem that you have been told about	🗌 YES 🗌 NO

6. Have you ever had any of the following cardiovascular or heart symptoms?

Frequent pain or tightness in your chest	□ YES □ NO	In the past two years have you noticed your heart skipping or missing a beat	□ YES □ NO
Pain or tightness in your chest during physical activity	□ YES □ NO	Heartburn or indigestion that is not related to eating	□ YES □ NO
Pain or tightness in your chest that interferes with your job	□ YES □ NO	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?

Breathing or Lung Problems	YES NO	Blood Pressure	□ YES □ NO
Heart Trouble	□ YES □ NO	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, go to question 9)

Eye Irritation	🗌 YES 🗌 NO	General weakness or fatigue	🗌 YES 🗌 NO
Skin Allergies or Rashes		Any other problem that interferes with your use of a	
-	🗌 YES 🗌 NO	respirator	🗌 YES 🗌 NO
Anxiety	🗌 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 <u>full-face</u> <u>piece respirator</u> or a <u>self-contained breathing apparatus (SCBA)</u>. 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

Yes No

🗌 Yes 🔲 No

11. Do you currently have any of the following vision problems?

Wear contact lenses	🗌 YES 🗌 NO	Are you color blind?	YES NO
Wear glasses	□ YES □ NO	Any other eye or vision problem?	🗌 YES 🗌 NO
Do you wear glasses at work?	YES NO		

12. Have you ever had an injury to your ears, including a broken ear drum?

13. Do you currently have any of the following hearing problems?

Difficulty hearing?	Wear a hearing aid? □YES □ NO	Any other hearing or ear problem?
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14. Have you ever had a back injury?

15. Do you currently have any of the following musculoskeletal problems?

Weakness in any of your arms, hands, legs, or		Difficulty fully moving your head side to	
feet?	YES NO	side	🗌 YES 🗌 NO
Back Pain	YES NO	Difficulty bending at your knees	🗌 YES 🗌 NO
Difficulty fully moving your arms and legs?	YES NO	Difficulty squatting to the ground	🗌 YES 🗌 NO
Pain or stiffness when you lean forward or		Climbing a flight of stairs or a ladder	
backward at the waist	🗌 YES 🗌 NO	carrying more than 25 lbs	🗌 YES 🗌 NO
Difficulty fully moving your head up or down		Any other muscle or skeletal problem	
	🗌 YES 🗌 NO	that interferes with using a respirator	🗌 YES 🗌 NO

Part B: Any of the following questions, & 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 to normal amounts of oxygen:	hat has lower than
	If ``yes," do you have feelings of dizziness, shortness of breath, pounding in your che symptoms when you're working under these conditions:	est, or other
2.	At work or at home, have you ever been exposed to hazardous solvents, hazardous a (e.g. gases, fumes, or dust), or have you come into skin contact with hazardous chen	
	If "yes" name the chemicals if you know them:	🗌 Yes 🔲 No

3. Have you ever worked with any of the materials, or under any of the conditions, listed below:

Asbestos		Coal (e.g. mining)	
Iron		Silica (e.g. in sandblasting)	
Tin	□ YES □NO	Tungsten/cobalt (e.g grinding or welding this material	YES NO
Beryllium	□ YES □NO	Dusty Environments	□ YES □ NO
Aluminum	□ YES □NO	Any other hazardous exposures?	🗌 YES 🗌 NO

If "yes," to question 3 page 12, describe these exposures:_____

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

5.	5. List your previous occupations:			
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 pressu mentioned earlier in this questionnaire, are you taking any other medications for any (including over-the-counter medications):			

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

10. Will you be using any of the following items with your respirator(s)?

HEPA Filters?	Canisters (e.g. gas masks)	Cartridges □ YES □NO
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11. How often are you expected to use the respirator(s) check "yes" or "no" for all answers that apply to you)?:

Escape only (no rescue)	□ YES □ NO	Emergency rescue only	🗌 YES 🗌 NO
Less than 5 hours per week	🗌 YES 🗌 NO	Less than 2 hours per day	🗌 YES 🗌 NO
2-4 hours per day	□ YES □ NO	Over 4 hours per day	🗌 YES 🗌 NO

12. During the period you are using the respirator(s), is your work effort:

LIGHT WORK EFFORT - Sitting while writing, typing, drafting, or performing light assembly work; or standing while operating a drill press (1-3 lbs) or controlling machines.

a. Light (less than 200 kcal per hour):	🗌 Yes 🗌 No
If "yes", how long does this period last during the average: Shift:Hours _	Minutes
MODERATE WORK EFFORT - Sitting while nailing or filing; driving a truck or bus in a while drilling, nailing, performing assembly work, or transferring a moderate load (about walking on a level surface about 2 mph or down a 5-degree grade about 3 mph; or pus with a heavy load (about 100 lbs) on a level surface.	ut 35 lbs) at trunk level;
b. Moderate (200 to 350 kcal per hour):	🗌 Yes 🗌 No
If "yes", how long does this period last during the average: Shift: Hours _	Minutes
Examples of HEAVY WORK are lifting a heavy load (about 50 lbs.) from the floor to yo working on a loading dock; shoveling; standing while bricklaying or chipping castings; degree grade about 2 mph; climbing stairs with a heavy load (about 50 lbs.).	
c. Heavy (above 350 kcal per hour):	🗌 Yes 🗌 No
If "yes," how long does this period last during the average: Shift : Hours	_ Minutes
13. Will you be wearing protective clothing and/or equipment (other than the respirator) when you're using your respirator:	□Yes □ No
If "yes," describe this protective clothing and or equipment:	
14. Will you be working under hot conditions (temp. exceeding 77 degrees. 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 usin (for example, confined spaces, life-threatening gases):	ıg 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 and well-being of others (for example, rescue, security):

EXHIBIT III

Respirator User Training and Education

- 1. The user will be instructed in the nature of the hazards for which the respiratory protection is being provided and informed of possible consequences which may occur if exposed to the hazard without adequate protection.
- 2. Instruction will include a discussion of the respirator's capabilities and limitations.
- 3. A detailed discussion of the user's responsibility for inspection of equipment prior to use and methods of inspection will be included. Each user will have a respirator during this part of training.
- 4. Instruction and training will include storage, cleaning and maintenance.
- 5. Instructions on donning methods, proper fitting and adjustment of the equipment will be given. Each user will then don the equipment in an atmosphere of normal air, prior to a fit testing exercise.
- 6. Fit testing specific for the particular respirator will be given.
- 7. A record of employees and the dates and types of initial training and subsequent refresher training will be maintained.

TRAINING RECORD

Name	Department	Respirator Type	Date

(Signature of Trainer)

EXHIBIT IV

RESPIRATOR FIT TEST FORM

(The respirator should be worn for at least 5 minutes before the start of the fit test.)

-	loyee will fill in this section:			
	loyee Name:	Date:		
Depa	artment: Job Tit	tle:		
Date	of last spirometry/physical:			
Туре	and brand of respirator:	Size:		
Resp	iratory Hazards Encountered:			
		Supervisor will obser	ve this sectio	n:
1.	Employee shown how to don and adjust respirator for	or proper fit?	\Box Yes	🗆 No
2.	Position of mask on mask on nose, chin and cheeks?		□ Yes	🗆 No
3.	Room for eye protection?		\Box Yes	🗆 No
4.	Room to talk?		□ Yes	🗆 No
5.	Proper fit observed by evaluator?		□ Yes	🗆 No
Supe	rvisor will observe the following			
Note.	The respirator should be worn at least 5 minutes befo	re start of the test		
<u>Fit T</u>	esting:			
<u>Posit</u>	<u>ive Pressure Test</u>			
Empl	oyee closes off exhalation valves, exhales and tests for	slight pressure build	up. 🗖 Yes	🗆 No
Nega	tive Pressure Test			

Employee closes off inlets, inhales and tests for slight face piece collapse that lasts for 10 seconds.

 \Box Yes □ No

Note: a. Fire personnel or other qualified individuals will perform this

b. The respirator shall not be adjusted once the fit test exercise begins. Any adjustment voids the test.

<u>Fit Test Method Used</u> (Circle which one is used: irritant smoke, saccharine, amyl acetate, other)

<u> </u>	<u>cle which type: basic smell test, machine mo</u>	nitored, loss of pre	<u>ssure)</u>
1.	Normal breathing (no talking)	□ Pass	□ Fail
2.	Deep breathing (slowing and deeply)	□ Pass	□ Fail
3.	Turning head side to side (slowly)	□ Pass	□ Fail
4.	Moving head up and down	□ Pass	□ Fail
5.	Talking	□ Pass	□ Fail
6.	Grimacing (smiling or frowning)	□ Pass	□ Fail
7.	Bending over	□ Pass	□ Fail
8.	Normal breathing	□ Pass	□ Fail
Test	Conductor:		-
Emp	loyee Signature:		
	Non-Routine; Emergenc Respirator Use	y; and Self-Contain and Maintenance I	-
Resp		and Maintenance H	Record
	Respirator Use	and Maintenance I	Record
Man	Respirator Use	and Maintenance I	Record
Man Mod	Respirator Use	and Maintenance I	Record

EXHIBIT V

Assigned to whom: _____

Shelf Life:_____

Inspection and Maintenance Record:

Date	Serviced By	Comments

EXHIBIT VI

	Respiratory Program Evaluation			
Are records complete and If no, what action has bee	-	Yes future performance?	No	
	toring been condu Yes	-	ere new materials or production	
Are employees wearing the If no, what action has bee				
Have employees who wea Yes	r respirators had a No	medical evaluation a	nd were they fit tested?	
Have all employees comp Yes	leted their initial o No	r refresher respirator	training?	
Do employees who have of Yes		understand limitation	ns, use and inspection of respirators	
If no, what improvements	in the training pro	gram are being imple	emented?	
	<u> </u>			