## UCI Environmental Health & Safety

## **Reproductive Health Program**

Responsible Administrator: Research Safety Programs Manager Revised: November 2023

**Summary**: This section outlines the procedures of the Reproductive Health Program that is streamlined through the Environmental Health & Safety (EHS) Department and in collaboration with Center for Occupational & Environmental Health (COEH)

1.	Program Description	.1
2.	Scope	1
3.	Definitions	1
5.	Program Components	4
6.	Reporting Requirements	.6
7.	References	6

## 1. Program Description

This program outlines the referral process of the reproductive health consult of all individuals (employees, students, and volunteers) on campus from occupational exposure to chemical, biological, radioactive, and other substances that are known or suspected of being capable of posing a hazard to human reproduction.

#### 2. Scope

The objective of the Reproductive Health Program is to refer the reproductive health individual to the Center for Occupational & Environmental Health (COEH) for a medical consult by a licensed medical practitioner.

#### 3. Definitions

**Declared Pregnant Woman –** A woman who voluntarily informs UCI EHS in writing, of her pregnancy and the estimated date of conception.

**Individual** - A female or male employee, student, or volunteer who expresses a concern about their reproductive health potentially being affected by their work area.

**Developmental Toxicity**: Adverse effects on the developing organism that may occur anytime from conception to sexual maturity. Results may include spontaneous abortion, structural or functional defects, low birth weight, or effects that may appear later in life.

The key consideration with reproductive and developmental toxicity is that exposures during a critical period may result in long-term health effects. Thus, it is essential to recognize potential risks and intervene early.

**Reproductive Toxicity:** Adverse effects on the health of the reproductive organs, endocrine system, or gametes (egg or sperm) from exposure to an exogenous agent. May result in consequences such as menstrual dysfunction, damage to gametes (ova or sperm) or gamete development, impaired fertility, or inability to maintain a pregnancy.

**Reproductive Hazard**: Any chemical, radiological, physical, or biological agent capable of impacting an individual's ability to conceive, maintain a pregnancy, or result in a birth defect.

**Mutagen:** a physical or chemical agent that changes the genetic material, usually DNA, of an organism and thus increases the frequency of mutations above the natural background level.

Teratogen: These substances may cause birth defects via a toxic effect on an embryo or fetus.

#### Exposure Limits:

#### California Occupational Safety and Health Administration (Cal/OSHA)

- Although the California State Occupational Safety and Health Administration (Cal-OSHA) has established occupational exposure limits for numerous hazardous materials (Title 8, Section 5144), there are no general reproductive health standards.
- Cal/ OSHA has issued a limited number of standards (e.g., Lead, Dibromochlorpropane, Ethylene Oxide, cadmium metal.) that acknowledge and provide partial protection from reproductive risks to these specific chemicals.
- A developing fetus may also be adversely affected by exposures lower than those generally considered safe for adults. The University of California, Irvine's goal is to keep exposures as low as reasonably achievable to minimize the potential for reproductive or developmental hazards.

#### California Department of Health Services (CDHS)

- The CDHS has an occupational radiation dose limit for the whole body of 5000 millirems per year for adult workers (>18). Persons under 18 must consult with the UCI Radiation Safety Officer.
- The limit for the embryo/fetus of a declared pregnant woman during the entire gestation period is 500 millirem. Furthermore, the National Council on Radiation Protection and Measurements (NCRP) recommends a monthly equivalent dose limit of 50 millirems to the embryo/fetus once the pregnancy is known. Contact the UCI Radiation Safety Officer <a href="mailto:radsafety@uci.edu">radsafety@uci.edu</a> for enrollment into the radiation monitoring program.

#### 4. Responsibilities

#### Environmental Health and Safety (EHS) Department

EHS will generate a referral for COEH for a medical consult by a licensed medical practitioner.

- Respond to an individual (a female or male employee, student, or volunteer) who expresses a concern about their reproductive health potentially being affected by their work area. Concerns may include:
  - > Pregnancy, or intent to become pregnant
  - > Fertility
- Compile referral packet to include COEH referral form, UC Irvine Reproductive Hazard Questionnaire (Appendix A), and Respirator Medical Evaluation Questionnaire (Appendix B), if applicable.
- Assist in coordinating air monitoring and fit testing when applicable.

#### **Supervisors and Principal Investigators**

Supervisors have the primary responsibility for the implementation of the Reproductive Health Protection Guideline in their work area. They must:

- Maintain an inventory of chemical, biological, and radiological agents used in the work area.
- Be familiar with the hazards associated with these agents including reproductive or developmental hazards.
- Develop operation-specific Standard Operating Procedures (SOPs).
- Provide operation-specific training to employees, students, and volunteers.
- Coordinate with Human Resources regarding employee workplace restrictions provided by their health care provider (if applicable).
- Ensure the use of exposure control measures (under Program Components) to control exposures to
  potential hazards to the lowest achievable levels.
- Measures may involve:
  - Substitution of the reproductive agent with a less hazardous agent when possible.
  - Engineering controls include an enclosure, local exhaust ventilation (fume hoods, biosafety cabinet, etc.)
  - Administrative procedures, including job rotation or elimination of higher hazard tasks

during pregnancy.

- > Personal protective equipment use, including protective clothing.
- Sood hygiene hand washing, clothing changes, and use of showers as appropriate.

## Employees, Students, and Volunteers

The employees, students, and volunteers are responsible to:

- Comply with all university policies and Cal/OSHA requirements and regulations to ensure a safe and healthy working environment.
- Utilize engineering or administrative controls as applicable.
- Utilize protective clothing and equipment provided to decrease exposure to hazards in the work area.
- Complete all required training.
- Follow operation-specific SOPs.
- Report to supervisor unsafe or hazardous working conditions, exposure incidents, or injuries.
- Complete the Reproductive Hazard Questionnaire (Appendix A) for any declared pregnancy and provide to COEH or private medical practitioner.
- Provide a brief job description to COEH.
- Consult with their health care provider regarding reproductive and developmental health issues.
- Submit any health care provider certifications regarding work restrictions or limitations to their supervisor.
- Students are required to enroll with the UCI Student Disability Center.

#### **Occupational Health Physician (COEH)**

The occupational physician is responsible for:

- When referred by EHS, evaluating the potential reproductive hazards of the pregnant employee/student by:
  - Reviewing the employee's Reproductive Health Questionnaire.
  - > Reviewing reports or evaluations conducted by EHS of the individual's work area and operations.
  - In conjunction with the employee/student's physician, advising the individual on any limitations or modifications to her work.

#### **Human Resources**

The UC Irvine Human Resources (HR) office is responsible for a consultation to employees or supervisors regarding work restrictions or modifications as needed. The department offers employee training for prospective parents on their benefits and available resources. Assisting the supervisor to follow-through on workplace limitations and/or modifications indicated by the occupational physician.

#### **Student Disability Center**

Assist the student and follow-through on recommended accommodations for disabled students in compliance with federal mandates. Student Disability Center providers accomplish this task by:

- determining whether the students have a disability that entitles them to accommodation,
- identifying what accommodations, if any, are available, and
- working with academic administrators to ensure that accommodations provided do not compromise, eliminate, or impact the academic requirements that each student needs to meet.

## Deans, Department Chairs, and Directors

Ensure that all principal investigators and laboratory supervisors are aware of the responsibilities and procedures in this guideline and provide support for the implementation of these guidelines. Deans are responsible for approving reproductive health accommodation requests that are not within the scope of the Americans with Disabilities Act and making a final determination regarding accommodation requests when the laboratory supervisor has determined that accommodation is not reasonable.

#### 5. Program Components

## Methods of Exposure Control

The most desirable method of managing risk to pregnancy and reproductive health of employees, students, and volunteers is to control exposure from chemical, biological, and physical agents to the lowest achievable

levels for all individuals. This may be achieved through a combination of the following:

- Substitute the reproductive agent with a less hazardous agent when possible.
- Use of engineering controls, such as enclosure, local exhaust ventilation (fume hoods, biosafety cabinet, etc.).
- Use of safe work practices and operation-specific procedures.
- Appropriate use of personal protective equipment.
- Hand washing, clothing changes, and use of showers as appropriate.
- Administrative controls may include:
- Postponing procedures/operations that may pose a developmental risk until after the pregnancy.
- Using job rotation to reduce exposures.
- Transferring the individual to a job, which does not involve exposure to reproductive or developmental hazards.
- It could be postponed for students, of course, later without hindering students' academic progress until after the pregnancy.

#### Safety Information & Training

The University promotes proactive recognition of safety hazards, including early identification of potential reproductive hazards so employees, students, and volunteers can seek appropriate assistance. To that end, information about this Reproductive Health Protection Guideline and reproductive hazard information is posted on the EHS website and provided during EHS chemical, radiological, and biological safety training.

Safety information may include:

- Copy of this guideline and its attachments
- Information about the individual's workplace hazards
- Information on work practices to reduce exposures
- Laboratory Safety Fundamentals
- Radiation Training
- UC Irvine Prenatal Radiation Exposure Guidelines
- Safety Data Sheets

#### **Declaration of Pregnancy or Intended Pregnancy**

If an employee, student, or volunteer wishes the University to be involved in helping protect her embryo/fetus, she must voluntarily declare her actual, suspected, or intended pregnancy to her supervisor and EHS. Individuals may contact EHS for a confidential consultation if desired.

It is acknowledged that an individual may choose to maintain their reproductive status as confidential for a time. However, the supervisor's involvement is an essential part of the University's Reproductive Health Protection Guideline.

Individuals may receive safety information about reproductive or developmental hazards posed by potential chemical, radiological, biological, or physical agents upon request from EHS with or without declaring actual, suspected, or planned pregnancy.

#### The sequence of Events (Communication, Evaluation, Recommendations)

- 1. An individual (a female or male employee, student, or volunteer):
  - a. declares their pregnancy by notifying their supervisor and EHS of their current pregnancy, or intent to become pregnant
  - b. expresses concern about reproductive health
  - c. When applicable, individuals may voluntarily inform the UC Irvine Radiation Safety Officer in writing when they become pregnant, suspect a pregnancy, or intend to become pregnant. Female radiation workers should refer to the UC Irvine Prenatal Radiation Exposure Guidelines received in their training.
- 2. The individual completes the Reproductive Hazard Questionnaire (Appendix A) in addition to photos of

lab work area or applicable areas of lab work and submits to COEH on the initial scheduled appointment.

- 3. The individual is advised to take the following information to their health care provider for discussion:
  - Completed Reproductive Hazard Questionnaire
  - Job/task description
  - SDS for any applicable hazardous materials.
- 4. Concurrently if the individual accepts our occupational health program provides a reproductive health consult with the campus reproductive health/ Toxicologist through the Center for Occupational and Environmental Health (COEH). The occupational health physician will recommend any restrictions or limitations on individual work activities if needed.
  - As needed, at the individual's request, the occupational physician may consult with the employee's personal physician regarding any work restrictions.
- 5. The individual provides written limitations to the supervisor or through Human Resources or Student Disabilities Center prepared by the physician, if any.
  - Student Disability Services will work with the individual if modifications or academic accommodations are needed to avoid possible exposures.
- 6. Supervisors are responsible for notifying Human Resources, and EHS of any work restrictions received.
- 7. Supervisors are responsible for implementing any recommended work restrictions and EHS exposure control and/or training recommendations.
- 8. Employees and supervisors may seek assistance from Human Resources regarding the implementation of work restrictions and EHS recommendations.

## **Anti-discrimination Policy**

- The University does not discriminate by sex, race, disability, age, or any other protected characteristic in the hiring, assignment, or promotion of employees because of actual or perceived differences in susceptibility to reproductive effects caused by toxic substances.
- However, the transfer of a particular employee or employees may be necessary in some cases to remove an employee or employees from exposure to toxic substances at levels above those allowed by applicable regulations. Such transfers will only be considered where materials substitution, additional engineering controls, and safe work practices are technologically unfeasible or ineffective in reducing exposures to levels prescribed by applicable regulations.
- If the employee or employees must be removed from exposure, the group of employees affected will be defined as narrowly as possible, considering the risks of the particular substance, while providing for the greatest possible element of employee choice consistent with adequate protection of their reproductive health and health of their offspring.
- No employee removed from exposure will suffer any loss of earnings.

## 6. Reporting Requirements - None

## 7. References

UC Irvine Prenatal Radiation Exposure Guideline

## Other Resources:

- EHS website
- NIOSH
- March of Dimes
- UC Irvine Parenting Resources
- List of Chemicals Know to the State of California to Cause Reproductive Toxicity
- The National Toxicology Program Center for the Evaluation of Risk to Human Reproduction
- American Society for Reproductive Medicine
- CDC's Reproductive Health Information Source

#### Appendix A. Reproductive Hazard Questionnaire

Date	Name	UCI ID#	
Dept.	Phone	E-mail	
Supervisor	Phone	E-mail	

#### 1. Agents used at work - Continue on separate page if needed

List Materials currently used or expect to use during pre- conception period or pregnancy	Frequency and Duration of use (once/day for two hours. etc.	Physical State (solid, liquid, gas)	Quantity used per use, in unit of time (e.g., 10 ml per wk)	Protective Equipment (gloves, respirator, etc.)	Controls used (fume hood, glove box, other local exhaust, radiation barrier, job rotation, etc.) Ventilation systems available to you.	Tasks – Describe how material will be used.
Chemical A	gents:					
Riological A	gents (and R	iocafoty los	(al):			
biological A	gents (and D	iosalety let	ver).			
Radiation:						

#### 2. Questions about chemicals:

a) Do other people in your area use the same chemicals? If yes, how many other people?

b) Are any of these chemicals heated? If yes, to what temperature? Which ones?

Page 1 of 3 updated 10-2022

c) Can you smell or taste a which ones?	any chemical fumes or vapors where you work? If yes,
d) Do you feel sick when yo other times?	ou work with any of the chemicals, and feel better at
e) Do any of the chemicals	you work with get on your skin? If yes, which ones?
3. Do you have any specific health describe:	h or safety concerns about your work? If so,
<ol> <li>Do you work in the vivarium wit if yes, have you updated your L</li> </ol>	th live animals or animal tissues? Yes No LAOHP Form online? Yes No
5. Do you store or consume food	or beverages in your workplace?
6. What type of personal protectiv	ve equipment do you wear while working?
Eye/Face Protection	Foot Protection Head Protection
<ul> <li>Safety glasses with side shields</li> <li>Laser safety glasses</li> <li>Safety goggles</li> <li>Face shield</li> <li>Welder's helmet/ face shield</li> </ul>	Safety shoes/ boots Hard hat Toe caps protection – earplugs, earmuffs
Body Protection	Hand Protection/Gloves
<ul> <li>Fall restraint/fall protection</li> <li>Rubber apron</li> <li>Disposable Tyvek lab coat/coveralls</li> <li>Lab coat or coveralls</li> </ul>	Leather Natural rubber S Cotton (coated/not coated) Nitrile
Welding leather sleeve guards Nomex Coveralls Other:	<ul> <li>Heat resistant</li> <li>Neoprene</li> <li>Chemical resistant</li> <li>Butyl rubber</li> <li>Latex</li> <li>Other (PVC, PVA, Viton)</li> <li>Cryogenic</li> <li>Anti-vibration</li> <li>Cut resistant (e.g., Kevlar)</li> <li>Other:</li> </ul>
Welding leather sleeve guards Nomex Coveralls Other:	Heat resistant Neoprene Chemical resistant Butyl rubber Latex Other (PVC, PVA, Viton) Cryogenic Anti-vibration Cut resistant (e.g., Kevlar) Other:

www.ehs.uci.edu

<ul> <li>Half face piece</li> <li>Self-contained breathing apparatus (SCBA)</li> <li>Full face piece</li> <li>Escape-only air pack</li> <li>PAPR unit</li> </ul>	OV/Organic Vapor OV/AG P-100 Ammonia	

- 7. Have you had any spills or unintentional exposures recently? If so, describe:
- 8. Describe your work environment:
- 9. If in a laboratory environment, how much of your time do you spend doing:
  - a) Work on a bench \_\_\_\_\_% b) Work in a fume hood \_\_\_\_\_% C) Office work \_\_\_\_\_% D) Other \_\_\_\_\_%
- 10. Are other people working in the same room as you?

	No
--	----

🔲 Yes

11. Describe the physical demands of your work:

	Duration & Frequency	Description
Lifting		
Bending/Twisting		
Sitting		
Standing		

Person Completing Form

Signature

Date

Page 3 of 3 updated 10-2022

## Appendix B

## **Respirator Medical Evaluation Questionnaire**

LC 5144 - TITLE 8

# Bring this <u>COMPLETED</u> form to your appointment. Failure to bring a completed form will cause delay or postponement of your appointment.

#### 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 (mark 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 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 every employee who has been selected to use any type of respirator (please print).

1.	Todav's date / / / Name		
	First Name	Last Name	
2.	Your Age Date of Birth/	3. Sex 🗆 Male 🗆	Female
4.	Your height ft. in. 5. Your weight	_lbs.	
6.	Your Job title		_
7.	A phone number where you can be reached by the health care professional who re- Area Code)	views this questionna	ire (include the
8.	The best time to phone you at this number		
9.	Has your employer told you how to contact the health care professional who will rev Yes	view this questionnaire	?□No □
10.	Check the type of respirator you will use (you can check more than one category)		
	a. N, R, or P disposable respirator D filter-mask_D non-cartridge type only		
	b. Other type 🗆 half- or full-facepiece 🗆 powered-air purifying 🗆 supplied-air 🗆 s	self-contained breathi	ng <u>apparatus</u>
11.	Have you worn a respirator?		
Раг	RT A. SECTION 2. (MANDATORY)		
Que (ple	estions I through 9 below must be answered by every employee who has been select ase mark "yes" or "no").	ted to use any type of	respirator
1.	Do you currently smoke tobacco, or have you smoked tobacco in the last month?	No	□ Yes
2.	Have you ever had any of the following conditions?		□ Yes
	a. Seizures (fits)	🗆 No	□ Yes
	b. Diabetes (sugar disease)	🗆 No	□ Yes
	c. Allergic reactions that interfere with your breathing	🗆 No	□ Yes
	d. Claustrophobia (fear of closed-in places)	🗆 No	□ Yes
	e. Trouble smelling odors	🗆 No	🗆 Yes

3.	Have you ever had any of the following pulmonary or lung problems?		
	a. Asbestosis	🗆 No	Yes
	b. Asthma	D No	🗆 Yes
[	c. Chronic bronchitis	🗆 No	Yes
	d. Emphysema	🗆 No	🗆 Yes
	e. Pneumonia	🗆 No	Yes
	f. Tuberculosis	🗆 No	Yes
	g. Silicosis	🗆 No	🗆 Yes
}	h. Pneumothorax (collapsed lung)	🗆 No	🗆 Yes
	i. Lung cancer	🗆 No	🗆 Yes
	j. Broken ribs	🗆 No	🗆 Yes
	k. Any chest iniuries or surgeries	□ No	□ Yes
	<ol> <li>Any other lung problem that you've been told about</li> </ol>	🗆 No	□ Yes
	······································		
4.	Do you currently have any of the following symptoms of pulmonary or lung illness?		
}	a. Shortness of breath	🗆 No	🗆 Yes
	b. Shortness of breath when walking fast on level ground or walking up a slight hill or	D No	🗆 Yes
	incline		
	c. Shortness of breath when walking with other people at an ordinary pace on level		□ Yes
	around		
	d. Have to stop for breath when walking at your own pace on level ground		🗆 Yes
	e Shortness of breath when washing or dressing yourself		□ Yes
	f Shortness of breath that interferes with your job		□ Yes
	n Coughing that produces phleam (thick sputum)		
	h Coughing that wakes you early in the morning		□ Yes
	Coughing that occurs mostly when you are lying down		
	i Coughing un blood in the last month		
	k Wheezing		
	Wheezing that interferes with your job		
	m Chect nain when you breathe deenly		
	n. Any other symptoms that you think may be related to lung problems		
L	n. Any outer symptoms that you time may be related to fund problems		
5	Have you ever had any of the following cardiovascular or heart problems?		
	a Heart attack	TI No	□ Yes
	b. Stroke		□ Yes
	c Angina		□ Yes
	d Heart failure		□ Yes
}	<ul> <li>Swelling in your legs or feet (not caused by walking)</li> </ul>		
	f Heart arrhythmia (heart beating irregularly)		□ Yes
	a High blood pressure		
	h Any other heart problem that you've been told about		
L			
6	Have you ever had any of the following cardiovascular or heart symptoms?		
	a Frequent pain or tightness in your chest	ΠNo	
	b Pain or tightness in your chest during physical activity		□ Yes
	<ul> <li>Pain or tightness in your chest that interferes with your job</li> </ul>		
	d In the nest two years, have you noticed your heart skinning or missing a heat		
	Hearthurn or indirection that is not related to eating		
	f Any other symptoms that you think may be related to heart or circulation problems		
L	. Yary value symptoms that you time may be related to heart of circulation problems		
7	Do you currently take medication for any of the following problems?		
	a Breathing or lung problems		□ Yes
	b. Heart trouble		□ Yes
	c Blood pressure		
	d Seizures (fits)		
i			

check a	the following space and go to question 9.1  Never used a respirator before Eye irritation	□ No	□ Yes
b	Skin allergies or rashes	🗆 No	🗆 Yes
C.	Anxiety	🗆 No	🗆 Yes
d	General weakness or fatigue	🗆 No	Yes
e	Any other problem that interferes with your use of a respirator	🗆 No	🗆 Yes
9. W a	Yould you like to talk to the health care professional who will review this questionnaire bout your answers to this questionnaire	□ No	🗆 Yes

Questions 10 to 15 below must be answered by every employee who has been selected to use a **full-face mask 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)	□ No	□ Yes
11. Do you currently have any of the following vision problems?		
a. Wear contact lenses	🗆 No	Yes
b. Wear glasses	🗆 No	Yes
c. Color blind	🗆 No	□ Yes
d. Any other eye or vision problem	□ No	🗆 Yes
12. Have you ever had an injury to your ears, including a broken ear drum?	□ No	🗆 Yes
13. Do you currently have any of the following hearing problems?		
a. Difficulty hearing	□ No	Yes
b. Wear a hearing aid	🗆 No	Yes
c. Any other hearing or ear problem	□ No	Yes
14. Have you <u>ever</u> had a back injury?	□ No	🗆 Yes
15. Do you <u>currently</u> have any of the following musculoskeletal problems?		
a. Weakness in any of your arms, hands, legs, or feet	🗆 No	Yes
b. Back pain	🗆 No	Yes
<li>c. Difficulty fully moving your arms and legs</li>	🗆 No	Yes
<li>d. Pain or stiffness when you lean forward or backward at the waist</li>	🗆 No	Yes
e. Difficulty fully moving your head up or down	🗆 No	Yes
f. Difficulty fully moving your head side to side	🗆 No	🗆 Yes
g. Difficulty bending at your knees	🗆 No	Yes
h. Difficulty squatting to the ground	🗆 No	Yes
<ol> <li>Climbing a flight of stairs or a ladder carrying more than 25 lbs.</li> </ol>	🗆 No	Yes
<ol> <li>Any other muscle or skeletal problem that interferes with using a respirator</li> </ol>		Yes

#### 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?	🗆 No	🗆 Yes
	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?	□ No	🗆 Yes

<ol> <li>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?</li> </ol>	□ No	□ Yes
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 be	low	
a Ashestos		T Yes
b Silica (e.α., in sandblasting)		
c. Tungsten/cobalt (e.g., grinding or welding this material)		□ Yes
d. Bervllium	□ No	□ Yes
e. Aluminum	🗆 No	Yes
f. Coal (for example, mining)	🗆 No	Yes
g. Iron	🗆 No	□ Yes
h. Tin	□ No	Yes
i. Dusty environments	🗆 No	Yes
j. Any other hazardous exposures	🗆 No	🗆 Yes
If "yes," describe these exposures		
4. List any second jobs or side businesses you have		
5. List your previous occupations		
6. List your current and previous hobbies		
<ol><li>Have you been in the military services?</li></ol>	🗆 No	Yes
If "yes," were you exposed to biological or chemical agents (either in training or combat)?	□ No	□ Yes
8. Have you ever worked on a HAZMAT team?	□ No	Yes
9. Other than medications for breathing and lung problems, heart trouble, blood pressure.		🗆 Yes
and seizures mentioned earlier in this questionnaire, are you taking any other		
medications for any reason (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)?		
a. HEPA Filters		□ Yes
b. Canisters (for example, gas <u>masks)</u>		□ Yes
ic. Cartridges		LIYes
11 How often are you expected to use the respirator(c) (mark "yes" or "bo" for all assume the	hat apply to you	12
<ol> <li>now offen are you expected to use the respirator(s) (mark yes of no for all answers in a Escape only (no rescue)</li> </ol>		
a. Escape only (no rescue)		
c Less than 5 hours per week		
d Less than 2 hours per day		
e 2 to 4 hours per day		
f Over 4 hours per day		
12. During the period you are using the respirator(s), is your work effort		
a. Light (less than 200 kcal per hour)	□ No	🗆 Yes
If "yes," how long does this period last during the average shifthrs	mins.	

Examples of a light work effort are **sitting** while writing, typing, drafting, or performing light assembly work; or **standing** while operating a drill press (1-3 lbs.) or controlling machines.

 !	b. Moderate (200 to 350 kcal per hour)			□ No	□ Yes	
	If "yes," how long does this period last during the a Examples of moderate work effort are <b>sitting</b> whil while drilling, nailing, performing assembly work, o on a level surface about 2 mph or down a 5-degre (about I 00 lbs.) on a level surface.	average shift e nailing or filing; <b>d</b> or transferring a mo e grade about 3 m	hrs riving a truck or t derate load (abou oh; or <b>pushing</b> a	mins. bus in urban traf it 35 lbs.) at trun wheelbarrow wit	fic; <b>standing</b> k level; <b>walking</b> th a heavy load	
	c. Heavy (above 350 kcal per hour)			□ No	□ Yes	
	If "yes," how long does this period last during the	average <u>shift</u>	hrs	mins.		
	Examples of heavy work are <b>lifting</b> a heavy load ( loading dock; <b>shoveling; standing</b> while bricklays climbing stairs with a heavy load (about 50 lbs.).	(about 50 lbs.) from ing or chipping casi	the floor to your ings; <b>walking</b> up	waist or shoulde an 8-degree gra	er; working on a ade about 2 mpi	
13.	Will you be wearing protective clothing and/or equi when you're using your respirator? If "yes," describe this protective clothing and/or equ	pment (other than t upment	he respirator)	□ No	□ Yes	
14.	Will you be working under hot conditions (temperat	ture exceeding 77 o	leg. F)?	□ No	🗆 Yes	
15.	Will you be working under humid conditions?			□ No	🗆 Yes	
16.	. Describe the work you'll be doing while you're using your respirator(s)?					
17. 18.	Describe any special or hazardous conditions you confined spaces, life-threatening gases) Provide the following information, if you know it, for your respirator(s)	might encounter wh	en you're using y nce that you'll be e	our respirator(s) exposed to wher	) (for example, n you're using	
	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					

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)