Written Exposure Control Plan
Respirable Crystalline Silica

Company Name: _____

Person Completing the Plan, Title: _____

Designated Competent Person: _____ **Competent Person Phone #** _____

Type of Exposure Control Plan: **Date Review Due:** _____

☐ Annual for Nested Contractors **GBR Safety Approval** _____

☐ Project Specific **Date Approved:** _____

Project Name (if applicable): _____

Description of Task(s): _____

SILICA EXPOSURE CONTROL PLAN TEMPLATE		Document No.: RSW-FORM-000027-GB.docx		Revision No.: 0				Effective Date: 07/30/2018
Task	**Source of Control Measures [1,2]**	**Air Monitoring Results** AL = 25µm/m3 PEL = 50µm/m3	**Engineering Contols [3,4,5]**	**Work Practices Controls**	**Environment (if specified)**	**Respiratory Protection [6]** < 4 hours	**Respiratory Protection [6]** > 4 hours	**Housekeeping Measures [7,8]**	**Access Restriction Methods [9]**
Stationary masonry saws	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use saw equipped with integrated water delivery system that continuously feeds water to the blade.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Handheld power saws (any blade diameter)	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use saw equipped with integrated water delivery system that continuously feeds water to the blade.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
					Indoors or in an enclosed area	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Outdoor use of handheld power saws for cutting fiber-cement board (with blade diameter of 8 inches or less)	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use saw equipped with commercially available dust collection system.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]
Walk-behind saws	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use saw equipped with integrated water delivery system that continuously feeds water to the blade.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
					Indoors or in an enclosed area	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Outdoor use of Drivable saws	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use saw equipped with integrated water delivery system that continuously feeds water to the blade.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Rig-mounted core saws or drills	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use tool equipped with integrated water delivery system that continuously feeds water to the cutting surface.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Handheld and stand-mounted drills (including impact and rotary hammer drills)	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use drill equipped with commercially available shroud or cowling with dust collection system.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	Use a HEPA-filtered vacuum when cleaning holes.					
Outdoor use of Dowel drilling rigs for concrete	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use shroud around drill bit with a dust collection system. Dust collector must have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	Use a HEPA-filtered vacuum when cleaning holes.	Outdoors	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]
Vehicle-mounted drilling rigs for rock and concrete	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use dust collection system with close capture hood or shroud around drill bit with a low-flow water spray to wet the dust at the discharge point from the dust collector.			☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			or						
			Operate from within an enclosed cab and use water for dust suppression on drill bit.			☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Jackhammers and handheld powered chipping tools	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact.		Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
					Indoors or in an enclosed area	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			or						
			Use tool equipped with commercially available shroud and dust collection system.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.		Indoors or in an enclosed area	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]
Handheld grinders for mortar removal (i.e., tuckpointing)	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use grinder equipped with commercially available shroud and dust collection system. Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☒ APF 25 ☐ APF 50 ☐ APF >50		
Handheld grinders for uses other than mortar removal	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use grinder equipped with integrated water delivery system that continously feeds water to the grinding surface.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			or						
			Use grinder equipped with commercially available shroud and dust collection system.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	Outdoors	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism.		Indoors or in an enclosed area	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☒ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]
Walk-behind milling machines and floor grinders	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use machine equipped with integrated water delivery system that continuously feeds water to the cutting surface.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			or						
			Use machine equipped with dust collection system recommended by the manufacturer.	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			Dust collector must provide the air flow recommended by the manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	When used indoors or in an enclosed area, use a HEPA-filtered vacuum to remove loose dust in between passes.					
Small drivable milling machines (less than half-lane)	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use a machine equipped with supplemental water sprays designed to suppress dust. Water must be combined with a surfactant.	Operate and maintain machine to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Large drivable milling machines (half-lane and larger)	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	**For cuts of any depth on asphalt only:**						
			Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust.	Operate and maintain machine to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			For cuts of four inches in depth or less on any substrate:						
			Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust.	Operate and maintain machine to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
			or						
			Use a machine equipped with supplemental water spray designed to suppress dust. Water must be combined with a surfactant.	Operate and maintain machine to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]
Crushing machines	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Use equipment designed to deliver water spray or mist for dust suppression at crusher and other points where dust is generated (e.g., hoppers, conveyers, sieves/sizing or vibrating components, and discharge points). Use a ventilated booth that provides fresh, climate-controlled air to the operator, or a remote control station.	Operate and maintain machine in accordance with manufacturer's instructions to minimize dust emissions.		☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Heavy equipment and utility vehicles used to abrade or fracture silica containing materials (e.g., hoe-ramming, rock ripping) or used during demolition activities involving silica-containing materials	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Operate equipment from within an enclosed cab. When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions.			☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50 ☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50 ☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Heavy equipment and utility vehicles for tasks such as grading and excavating but not including: demolishing, abrading, or fracturing silicacontaining materials	☒ Table 1 ☐ Air Monitoring	Not Necessary if Table 1 Controls are being followed.	Apply water and/or dust suppressants as necessary to minimize dust emissions. **or** When the equipment operator is the only employee engaged in the task, operate equipment from within an enclosed cab.			☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50 ☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50 ☒ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Drywall finishing with silica-containing materials	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]
Mixing cement	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Mixing /dumping refractory	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Refractory removal / chipping	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Gunned refractory tasks	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Removal / installation of silica containing insulation	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Loading / unloading silica containg catalyst	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Spraying ceramic coatings	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Sweeping with sweeping compound	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6]		Housekeeping Measures [7,8]	Access Restriction Methods [9]
						< 4 hours	> 4 hours		
Sweeping without sweeping compound	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Sweeping with HEPA Vac	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Mixing mortor or grout	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Abrasive blasting	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
Support crew for any of the above tasks (i.e. Fire Watch, CSE Attendant, etc.) that need to be in area of silica regulated areas	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		
	☐ Table 1 ☒ Air Monitoring					☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50	☐ None ☐ APF 10 ☐ APF 25 ☐ APF 50 ☐ APF >50		

Task	Source of Control Measures [1,2]	Air Monitoring Results AL = 25µm/m3 PEL = 50µm/m3	Engineering Contols [3,4,5]	Work Practices Controls	Environment (if specified)	Respiratory Protection [6] < 4 hours	Respiratory Protection [6] > 4 hours	Housekeeping Measures [7,8]	Access Restriction Methods [9]

NOTES:

1.) **Any deviation from Table 1** Tasks require air monitoring to determine control measures and respiratory protection requirements.

2.) Where an employee performs **more than one task on Table 1** during the course of a shift, and the total duration of all tasks combined is more than four hours, the required respiratory protection for each task is the respiratory protection specified for more than four hours per shift. If the total duration of all tasks on Table 1 combined is less than four hours, the required respiratory protection for each task is the respiratory protection specified for less than four hours per shift.

3.) Engineering and Work Practice Controls are required to be **used at all times** unless the employer can demonstrate that such controls are not feasible.

4.) If engineering and work practice controls are inadequate to reduce exposures to below the PEL, they still need to be used to reduce employee exposure to the **lowest feasible level** and must be supplemented with the appropriate respiratory protection.

5.) When implementing the control measures specified in Table 1, each employer shall:

(i) For tasks performed indoors or in enclosed areas, provide a means of exhaust as needed to **minimize the accumulation of visible airborne dust;**

(ii) For tasks performed using wet methods, **apply water at flow rates sufficient to minimize release of visible dust**;

(iii) For measures implemented that include an **enclosed cab or booth**, ensure that the enclosed cab or booth:

(A) Is maintained as free as practicable from settled dust;

(B) Has door seals and closing mechanisms that work properly;

(C) Has gaskets and seals that are in good condition and working properly;

(D) Is under positive pressure maintained through continuous delivery of fresh air;

(E) Has intake air that is filtered through a filter that is 95% efficient in the 0.3-10.0 µm range (e.g., MERV-16 or better); and

(F) Has heating and cooling capabilities.

6.) Respiratory Protection **APF Levels:**

APF 10 = Half Mask
APF 25 = Loose Fitting PAPR, Hood PAPR
APF 50 = Full Face
APF 1,000 = Full Face PAPR, Full Face Abrasive Blasting Hood, Full Face Supplied Air
APF 10,000 = Full Face SCBA

6.) Housekeeping **may NOT include dry sweeping or dry brushing** where it could contribute to the employee exposure unless wet sweeping, HEPA-filtered vacuuming or other methods are not feasible.

7.) **Compressed air may NEVER** be used to clean clothing or surfaces.

8.) Regulated areas will be established wherever airborne concentrations of respirable crystalline silica are, or can reasonably be expected to be, in excess of the PEL and **must be barricaded and warning signs** must be clearly visible from all accesses to the work area stating the following:

9.) Access must be limited to employees and/or contractors that are **required by work duties** to be present in the area, and are familiar with the requirements of this Exposure Control Plan.