

**Sample Silica Exposure Control Plan (Construction)**

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<b>Company:</b> ABC Concrete	<b>Person Compiling the Plan/Title:</b> Amanda Smith, Safety Manager
<b>Jobsite Project:</b> ACME University	<b>Description of Work:</b> Concrete demolition, Earth Moving, Drilling, installing tie-back anchors, installing rebar, shotcrete application.
<b>Competent Person:</b> Thomas A. Jones, Superintendent	

<b>Material:</b> Concrete	<b>Task:</b> Demolishing/disturbing
<b>Equipment and Control(s):</b> Heavy Equipment with Cab Filtration System	
<b>Task/Control Description:</b> Enclosed Cabs with filtration systems. Cabs cleaned regularly to remove settled dust. Water spray to control dust.	

<b>Material:</b> Concrete	<b>Task:</b> Drilling/Coring
<b>Equipment and Control(s):</b> Drilling Rig – Wet methods used to control dust - Respiratory Protection	
<b>Task/Control Description:</b> Wet Methods, General Ventilation, Respiratory Protection (N-95) APR.	

<b>Material:</b> Soil	<b>Task:</b> Earth Moving
<b>Equipment and Control(s):</b> Heavy Equipment with Cab Filtration System	
<b>Task/Control Description:</b> Enclosed Cabs with filtration systems. Cabs cleaned regularly to remove settled dust. Water spray to control dust.	

<b>Material:</b> Gunitite/Shotcrete	<b>Task:</b> Drilling/Coring
<b>Equipment and Control(s):</b> Wet Methods to control dust, Respiratory Protection	
<b>Task/Control Description:</b> Water spray to control dust during drilling, Half-mask APR with N-95 filters.	

**For information purposes only**

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<b>Material:</b> Gunite Shotcrete	<b>Task:</b> Mixing/Pouring
<b>Equipment and Control(s):</b> Silo Mortar Dispensing System with enclosure and local exhaust ventilation (dust collector) – Respiratory Protection	
<b>Task/Control Description:</b> Silo and mixer located outside building. Local Exhaust ventilation. Vacuum system used to clean spills. Filtering facepiece respirator (N95) worn by operator.	

**Safety of Others:**

Demolition work will be scheduled during night shift to minimize number of employees exposed to airborne dust. Water spray will be used to control dust. Non-authorized individuals will not be allowed in work area during drilling and shotcrete application.

**Worker Training:**

Employees trained in silica hazard, proper work procedures to control dust, proper use of safety equipment, and respirator use. Training provided through combination of tool box safety talks and formal “classroom” training.

**Housekeeping:**

Dry sweeping will be prohibited. Wet sweeping, HEPA filtered vacuuming or other methods will be used, unless not feasible. Compressed air will not be used to clean equipment or worker clothing. HEPA vacuum will be provided to clean clothing .

**Medical Surveillance:**

All employees using respiratory protection due to silica exposure for 30 or more days per year will be included in the Medical Surveillance Program which includes initial examination (medical history, physical examination with emphasis on respiratory system, chest x-ray, pulmonary function test, testing for latent tuberculosis infection, and any other tests deemed necessary by the physician). Periodic examinations will also be provided at least every three years.

**Other Considerations:**

Hearing protection will be provided for employees operating drilling rig, compressed air lances, and during shotcrete application. Precautions taken to avoid electrical shock by ensuring power cords are not damaged and Ground Fault Circuit Interrupters (GFCI) are provided and functioning properly.

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