



05-015

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Doc No.: IS-OPS-P003	Original Date: 09/18/09	Developed By Grant Boutin
Revision No.: 04	Revision Date: 04/13/10	Authorized By: Grant Boutin

Safe Work Procedure – Cutting Asbestos-Cement Pipe

Definitions

“Air-purifying respirator” means a NIOSH-approved half-mask respirator with N-100, R-100 or P-100 particulate filter

“Asbestos” is a generic term used to describe a family of six naturally occurring minerals used in construction materials

“Asbestos-containing material” means material that contains at least 0.5% asbestos by dry weight

“Friable” means asbestos material that can be easily crumbled, pulverized or powdered into airborne particles and includes material that has been crumbled, pulverized or powdered

“Non-friable” means asbestos material that is held together with a durable binder, such as cement, asphalt or vinyl. Asbestos-cement pipe is non-friable material.

“Wetting agent” can be created by mixing one cup of liquid dishwashing detergent for every 20 litres of water

Purpose and Scope

- Describe hazards associated with cutting asbestos-cement pipe and pipe that is suspected of containing asbestos
- Raise awareness of these hazards
- Describe procedures to control these hazards

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General

The improper handling, removal and disposal of asbestos-containing materials may release asbestos fibres into the air. If inhaled, exposure to air-borne asbestos is associated with an increased risk of lung cancer and other diseases over the long term. In Ontario, asbestos is a designated substance under the *Occupational Health and Safety Act*.

There are three types of asbestos operations in Ontario – Type 1, 2 and 3 – based on the following five factors:

- nature of asbestos material
- nature of work activity
- applicability of alternate controls
- duration of exposure
- risk to bystanders

The installation, repair and removal of asbestos-containing pipe is a **Type 1** operation. A Type 1 operation typically presents little hazard to workers or bystanders.

Procedures for a Type 1 operation in a trench

1. No eating, drinking or chewing in the work area.
2. Only workers wearing appropriate protective equipment will enter the work area where there is an asbestos dust hazard.
3. A worker may ask the employer for an air-purifying respirator. A worker who requests a respirator must wear the respirator from the start of the work until after clean up.
4. Any cutting, drilling, shaping or grinding of asbestos-cement pipe will be done using a **hand** tool, not a power tool.
5. Before cutting, drilling, shaping or grinding, pre-clean the subject area of pipe with a damp cloth
6. The subject area of pipe will be wetted with a wetting agent before, and kept wet during, any cutting, drilling, shaping or grinding to suppress the spread of dust, unless wetting would create a hazard or damage.
7. Remove sections of pipe intact. Do not puncture or break the pipe. Removed sections will be double bagged & labeled on site and returned to the Operations Centre for appropriate storage prior to shipping/disposal by an approved waste hauler.

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8. Before leaving the work area;
 - i) clean the reusable personal protective clothing by damp wiping, and
 - ii) clean reusable barriers and enclosures
9. After leaving the work area;
 - i) wash face and hands, and
 - ii) where applicable, clean, disinfect and inspect the respirator and replace the filter according to the procedure for Respirator Care and Maintenance, and
 - iii) complete an asbestos work report (attached as Appendix 1)

Personal Protective Equipment

- Air purifying respirator (if requested by worker)
- Protective clothing that:
 - is made of material that does not readily retain nor permit penetration of asbestos fibres, and
 - fits snugly at the neck, wrists and ankles, and
 - that may include a head covering, and
 - is preferably disposable
- Eye protection
- Hand protection
- Head protection
- Foot protection

Emergency Procedures

- Wash or dispose of clothing and shower after finishing the job

Maintenance/Testing/Inspection

An air-purifying respirator will be:

- used, maintained and repaired according to procedures established by the manufacturer and the employer see - Procedure IS-OPS-P003a, and
- cleaned, disinfected and inspected after each use, and
- stored in a convenient, clean, sanitary location when not in use

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WORK REPORT

Crew Members		
R. Annett <input type="checkbox"/>	P. Huffman <input type="checkbox"/>	J. Ashworth <input type="checkbox"/>
C. Pisaric <input type="checkbox"/>	C. Heckman <input type="checkbox"/>	J. Putman <input type="checkbox"/>
L. Pollak <input type="checkbox"/>	D. Beroud <input type="checkbox"/>	J. McIntyre <input type="checkbox"/>
L. Eden <input type="checkbox"/>	K. Fidler <input type="checkbox"/>	P. Earl <input type="checkbox"/>
P. Storm <input type="checkbox"/>	R. Ioanidis <input type="checkbox"/>	J. Sock <input type="checkbox"/>
J. Arts <input type="checkbox"/>	C. Spurrell <input type="checkbox"/>	T. Cosby <input type="checkbox"/>
Date and time of work:		
Weather conditions:		
Location of job site:		
Description of Work:	Sanitary Sewer Lateral Repair <input type="checkbox"/>	
	Main Sewer Repair <input type="checkbox"/>	
	Watermain Repair <input type="checkbox"/>	
Additional PPE Utilized	Respirator <input type="checkbox"/> Disposable Protective Clothing <input type="checkbox"/>	
Was a hand tool used?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was a wetting agent used?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Crew Leader Signature:		
Date of Report:		

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THIS GUIDELINE TAKES EFFECT IMMEDIATELY AND REMAINS IN EFFECT UNTIL REPLACED BY A NEW GUIDELINE OR SUPERSEDED BY LEGISLATION/REGULATION



 Employer Co-Chair, JHSC



 Worker Co-Chair, JHSC

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