



Manitoba Operations



STANDARD PROCEDURE INSTRUCTION

Title		SPI
Manitoba Operations Policy for Handling Residual Explosives		34-50
Department	Supersedes SPI Dated	Effective Date
Manitoba Operations "all"	New	January 22,2013

Manitoba Operations Policy for Handling Residual explosives

STANDARD PROCEDURE INSTRUCTION

1. **PURPOSE:**

To provide a procedure on safe disposal of residual explosives.

2. **CONTEXT:**

Legislative requirements require Manitoba Operations to have a procedure on how to identify, secure, guard and properly dispose of residual explosives when found.

SCOPE:

3. This procedure covers all Manitoba operations.

3.1 This is to be included in the annual departmental JHSC SPI reviews

3.2 To be provided to all contractors working on the Vale Property.

3.3 The procedure is to be included in the new hire orientations and contractor orientations

Procedure:

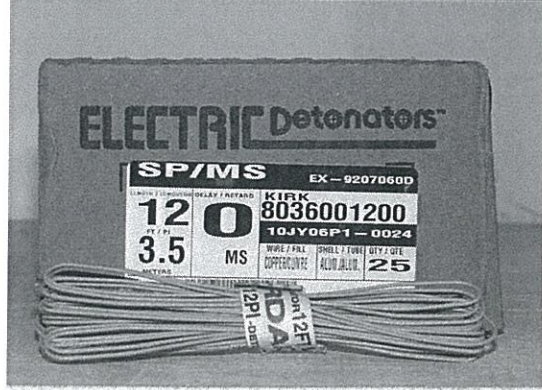
1. Once a suspected residual explosive is located, the supervisor of the immediate area or department person on call is to be contacted.
2. The area and suspected residual explosive is to be safely guarded by roping the area off and securing a guard in place.
3. Initiate a site specific plan for identification, transportation and safe disposal of the suspected residual explosive. Follow All Mines procedure for transportation, handling and storage of explosives procedure AM 6.3.
4. The site plan will include:
 - Identification of the residual explosive by a qualified blaster.
 - Identify the safe working perimeter around the residual explosives
 - Equipment operating in the immediate area and safe guards used to immobilize or restrict contact with the residual explosives
 - How to extract or expose the residual explosive from any material it may be lodged into or buried in (do not use equipment or metal shovels to expose)
 - Equipment required to remove and transport the residual explosives
 - Departments or notifications required to remove, transport and dispose of the residual explosives
 - Materials required for transportation and disposal of the residual explosives (powder bag)
 - Location of safe storage and guarding of the safe storage facility of the residual explosive prior to being disposed of.
 - Location for safe disposal and methods to be used for the safe disposal of the residual explosives.


5. Methods of disposal of residual explosives:

- Empty plastic Amex bag- remove bag to a location that the nearest sewer reports to the tailings, wash with water, turn the bag inside out and dispose of cleaned Amex bag to landfill.
- Full or partially full Amex plastic bag- Transport to the nearest powder mag. Identify bag as unusable. Dispose of during the next scheduled production blast.
- Empty bailer Amex bag- Turn the bag inside out and inspect before being returned to Supplier.
- Stick powder-Transport to nearest powder mag. Identify it as unusable and dispose of during the next scheduled production blast.
- Any explosive that contains a detonator must be initiated without undue delay following the qualified blaster's site specific plan.
- Detonators-transport to the nearest fuse mag. Identify it as unusable. Dispose of during the next scheduled production blast.

Photos of potential residual explosives that may be found on the Vale Site





Approved By 	Title Vice President, Manitoba Operations
Date Sun 22/13	