

WP 04-HO4010

Revision 3

**MINE HOIST EMERGENCY
RESPONSES**

Emergency Operations

EFFECTIVE DATE: 07/31/01

B. Kirby

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APPROVED FOR USE

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INTRODUCTION^①

The operation of any hoist in response to an emergency situation may be conducted as directed by the Hoisting Operations Managers, or their delegates.

The scope of this emergency response procedure includes the operation of the Waste Handling Hoist, Salt Handling Hoist, and the Air Intake Hoist.

No records are generated by performing this procedure.

REFERENCES

BASELINE DOCUMENTS

- ! 30 CFR 57, Federal Metal and Non-Metal Mine Safety and Health Regulations
- ! WP 12-IS.01, Industrial Safety Program

REFERENCED DOCUMENTS

- ! WP 10-WC3011, Maintenance Process
- ! WP 12-ER4901, Severe Weather Response
- ! WP 04-HO4002, Salt Hoist Alarm Response
- ! WP 04-HO4003, Waste Handling Hoist Alarm Response

INITIATING EVENTS

1.0 RUNAWAY CONVEYANCE

Initiation is caused by an overspeed condition or the failure of the brake system to set with the accompanying occurrence of unexpected motion.

2.0 SURFACE EMERGENCY (FIRE OR BOMB THREAT)

Initiation is caused by a surface fire or bomb threat. Hoisting Operations will be secured for safety and/or security concerns.

3.0 FORCE OF NATURE

Initiation is caused by high winds, tornados, or seismic conditions. Mantrips are limited to emergency use.

4.0 RAIN OR FLOODING

Initiation is caused by severe rain or flooding conditions. Mantrips are limited to emergency use.

SALT SHAFT HOIST

1.0 AUTOMATIC ACTIONS

1.1 Runaway Conveyance

! Lilly Controller trips on overspeed condition resulting in an emergency stop

! Brakes set **IMMEDIATELY**

1.2 Surface Emergency (Fire or Bomb Threat) - None

1.3 Force of Nature - None

1.4 Rain or Flooding - None

2.0 IMMEDIATE ACTIONS - Salt Shaft Hoist Operator

2.1 Runaway Conveyance

2.1.1 Depress E-STOP push-button.

2.1.2 Set Manual Brake to SET.

- 2.1.3 Open Brake Dump Air Valve.
- 2.1.4 Refer to WP 04-HO4002, Salt Hoist Alarm Response; and take appropriate actions.
- 2.2 Surface Emergency (Fire or Bomb Threat) - When notified by Security or Central Monitoring Room Operator (CMRO), Salt Shaft Hoist Operator, perform the following:
 - 2.2.1 Discharge all personnel from conveyance.
 - 2.2.2 Secure hoist.
 - 2.2.3 Evacuate Hoist House until further notice.
- 2.3 Force of Nature - Under tornado or seismic activity conditions, or upon notification from CMRO, Salt Shaft Hoist Operator, perform the following:
 - 2.3.1 If possible, discharge all personnel from conveyance.
 - 2.3.2 If personnel cannot be removed from conveyance, maintain communication with them.
 - 2.3.3 Secure Hoist.

NOTE

Following a tornado or seismic event, the hoist **SHALL NOT** be used until a preoperational inspection has been conducted by an inspection team.

- 2.4 Rain or Flooding
 - 2.4.1 Under rain or flooding conditions that pose imminent hazards to hoisting equipment, or upon notification from CMRO, Salt Shaft Hoist Operator, perform the following:
 - [A] If possible, discharge all personnel from conveyance.
 - [B] If personnel cannot be removed from conveyance, maintain communication with them.
 - [C] Secure the Hoist.
- 3.0 SUBSEQUENT ACTIONS - All events
 - 3.1 Notify CMRO as soon as possible of the situation.
 - 3.2 Notify Hoisting Manager as soon as possible of the situation.

NOTE

Prior to the resumption of **ANY** Hoisting activities, the following two steps **SHALL** occur:

- 3.3 Inspection Team(s), **GO TO** WP 12-ER4901, Severe Weather Response, complete a damage inspection, and **RETURN TO** step 3.4.
- 3.4 Hoisting Operations Manager, direct resumption of hoisting activities.
- 4.0 CORRECTIVE ACTIONS - All events
 - 4.1 Hoisting Manager, **GO TO** WP 10-WC3011 Maintenance Process, submit an Action Request and **RETURN TO** step 5.0.
- 5.0 EXIT CONDITIONS - All events
 - 5.1 Hoisting Manager/CMRO, notify Hoist Operators the condition is corrected.

WASTE HANDLING SHAFT HOIST

1.0 AUTOMATIC ACTIONS

1.1 Runaway Conveyance

! Lilly Controller trips on overspeed condition resulting in an emergency stop

! Brakes set **IMMEDIATELY**

1.2 Surface Emergency (Fire or Bomb Threat) - None

1.3 Force of Nature - None

1.4 Rain or Flooding - None

2.0 IMMEDIATE ACTIONS - Waste Handling Shaft Hoist Operator

2.1 Runaway Conveyance

2.1.1 Depress E-STOP push-button.

2.1.2 Set Manual Brake to SET.

2.1.3 Press the Primary/Secondary Brake Pump Stop push-button (dependent on which system is in use).

2.1.4 Refer to WP 04-HO4003, Waste Handling Hoist Alarm Response; and take appropriate actions.

2.2 Surface Emergency (Fire or Bomb Threat)

2.2.1 When notified by Security or CMRO, Waste Handling Shaft Hoist Operator, perform the following:

- [A] Discharge all personnel from conveyance.
- [B] Secure hoist.
- [C] Evacuate Hoist House until further notice.

2.3 Force of Nature

2.3.1 Under tornado or seismic activity conditions, or upon notification from CMRO, Waste Handling Shaft Hoist Operator, perform the following:

- [A] If possible, discharge all personnel from conveyance.
- [B] If personnel cannot be removed from conveyance, maintain communication with them.
- [C] Secure Hoist.

NOTE

Following a tornado or seismic event, the hoist **SHALL NOT** be used until a preoperational inspection has been conducted by an inspection team.

2.4 Rain or Flooding

2.4.1 Under rain or flooding conditions that pose imminent hazards to hoisting equipment, or upon notification from CMRO, Waste Handling Shaft Hoist Operator, perform the following:

- [A] If possible, discharge all personnel from conveyance.
- [B] If personnel cannot be removed from conveyance, maintain communication with them.
- [C] Secure Hoist.

3.0 SUBSEQUENT ACTIONS

3.1 Runaway Conveyance

- 3.1.1 Notify CMRO as soon as possible of the situation.
- 3.1.2 Notify Hoisting Manager as soon as possible of the situation.

- 3.2 Surface Emergency (Fire or Bomb Threat)
 - 3.2.1 Notify CMRO as soon as possible of the situation.
 - 3.2.2 Notify Hoisting Manager as soon as possible of the situation.
- 3.3 Force of Nature

NOTE

Prior to the resumption of **ANY** Hoisting activities the following two steps **SHALL** occur:

- 3.3.1 Inspection Team(s), **GO TO** WP 12-ER4901, Severe Weather Response, complete a damage inspection and **RETURN TO** step 3.3.2.
 - 3.3.2 Hoisting Operations Manager, direct resumption of hoisting activities.
- 4.0 CORRECTIVE ACTIONS - All events
 - 4.1 Hoisting Manager, **GO TO** WP 10-WC3011 Maintenance Process, submit an Action Request, and **RETURN TO** step 5.0.
 - 5.0 EXIT CONDITIONS - All events
 - 5.1 Hoisting Manager/CMRO, notify Hoist Operators the condition is corrected.

AIR INTAKE SHAFT HOIST

1.0 AUTOMATIC ACTIONS

- 1.1 Runaway Conveyance
 - ! Lilly Controller trips on overspeed condition resulting in an emergency stop
 - ! Brakes set **IMMEDIATELY**
- 1.2 Surface Emergency (Fire or Bomb Threat) - None
- 1.3 Force of Nature - None
- 1.4 Rain or Flooding - None

2.0 IMMEDIATE ACTIONS - Air Intake Shaft (AIS) Hoist Operator

- 2.1 Runaway Conveyance
 - 2.1.1 Set Manual Brake.
 - 2.1.2 Remove foot from Deadman Switch.

- 2.1.3 Depress the E-STOP push-button.
- 2.1.4 If personnel are embarked on conveyance, verify their physical condition using communication systems.
- 2.1.5 Notify Hoisting Manager.
- 2.2 Surface Emergency (Fire or Bomb Threat)
 - 2.2.1 When notified by Security or the CMRO, AIS Hoist Operator, perform the following:
 - [A] Discharge all personnel from conveyance.
 - [B] If the Galloway is in use at the AIS, remove the embarked personnel from Galloway using the AIS conveyance or Galloway as appropriate.
 - [C] Secure Hoist.
 - [D] Evacuate Hoist House until further notice.
- 2.3 Force of Nature
 - 2.3.1 Under tornado or seismic activity conditions, or upon notification from CMRO, AIS Hoist Operator, perform the following:
 - [A] If possible, discharge all personnel from conveyance.
 - [B] If personnel cannot be removed from conveyance, maintain communication with them.
 - [C] Secure Hoist.

NOTE

Following a tornado or seismic event, the hoist **SHALL NOT** be used until a preoperational inspection has been conducted by an inspection team.

- 2.4 Rain or Flooding
 - 2.4.1 Under rain or flooding conditions that pose imminent hazards to hoisting equipment, or upon notification from CMRO, AIS Hoist Operator, perform the following:
 - [A] If possible, discharge all personnel from conveyance.

[B] If personnel cannot be removed from conveyance, maintain communication with them.

[C] Secure Hoist.

3.0 SUBSEQUENT ACTIONS - AIS Hoist Operator

- 3.1 If personnel are embarked on conveyance, verify their physical condition using communication systems.
- 3.2 Notify Hoisting Manager as soon as possible of the situation.
- 3.3 Notify CMRO as soon as possible of the situation.

NOTE

Prior to the resumption of **ANY** Hoisting activities the following two steps **SHALL** occur:

- 3.4 Inspection Team(s), **GO TO** WP 12-ER4901, Severe Weather Response, complete a damage inspection and **RETURN TO** step 3.5.
- 3.5 Hoisting Operations Manager, direct resumption of hoisting activities.

4.0 CORRECTIVE ACTIONS - All events

- 4.1 Hoisting Manager, **GO TO** WP 10-WC3011, Maintenance Process, submit an Action Request, and **RETURN TO** step 5.0.

5.0 EXIT CONDITIONS - All events

- 5.1 Hoisting Manager/CMRO notify Hoist Operators the condition is corrected.