

WP	04-HO1004
	011101001

# Rev. 8

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### **INTRODUCTION**<sup>1,2,3,4</sup>

This procedure provides the steps necessary for operating the Air Intake Shaft (AIS) Hoisting System. These steps includes normal and emergency operations of the AIS Hoisting System under test, material transport, or personnel transport conditions.

Records generated by performance of this procedure are in the AIS Hoist Operator's Log Sheet.

The performance of this procedure generates the following record, as applicable:

RCRA Operator Log Sheet

### REFERENCES

BASELINE DOCUMENTS

- 30 CFR Part 57, "Federal Metal and Non-Metal wine Safety and Health Regulations"
- DOE/WIPP 91-005, RCRA Part B Permi Application
- WP 12-IS.01, Industrial Safety Program
- WP 13-QA3003, Corrective Actions Program

### REFERENCED DOCUMENTS

• WP 04-IM1000, 'ssues Management Processing of WIPP Forms

## PRECAUTIONS AND LIMITATIONS

- The AIS holdting plant is in conformance with 30 CFR standards for construction/inspection use or for emergency mine egress. Approval to use the AIS hoisting plant for emergency mine egress **SHALL** be obtained from the on-duty Hoisting Manager during day shift and Facility Shift Manager during off shift.
- Hoist Operators **SHALL NOT** use the LOT or HOT positions of the OT/BO selector switch under any circumstances since the lack of proximity switches in these two positions defeats the Lilly Overtravel limits.
- The hoist and signal system shall be operated only by qualified personnel.

Working Copy	

- Roof Doors: The AIS has a roof over the collar area equipped with trap doors that cover the conveyance passageway. These doors must be **open** and solidly secured whenever the hoist is operational. The roof doors may be closed for plant maintenance purposes if necessary, but should be returned to the **open** (normal) position upon completion.
- Collar Doors: These doors are normally in the **closed** position and serve as additional overhead protection for persons working in the shaft. The collar doors are electrically interlocked with the hoist controls to prevent an inadvertent hoisting through the collar doors in the closed position. If the doors are closed, the hoist will trip 135 feet below the doors when hoisting.
- All visible components of the hoist system **SHALL** be visually inspected prior to use.
- When working around an open shaft, approved fall protection SHALL be worn.
- Conveyance man cage doors **SHALL** remain closed during mantrips, and **SHALL NOT** be opened until the conveyance has come to a full stop.
- All items and body parts **SHALL** remain within the conveyance whenever the conveyance is in motion.
- Test all communications systems prior to hoist or Galloway use.
- While people are underground, the mine phone system will be monitored at all times by hoist operating personnel, who will be prepared to respond immediately to all emorgency situations that may require hoisting or lowering services.
- Load Interruptor Switches (LIS) **SHALL NOT** be operated from CLOSED to OPEN with a connected load.
- Protective relays limit operation as follows:
  - A circuit breaker (CB) that has a flag displayed **SHALL NOT** be CLOSED.
  - Equipment being served by tripped CB **SHALL NOT** be energized.
  - Relay flags may be reset only after Maintenance or Engineering, and Facility Shift Manager concur.

# PREREQUISITE ACTIONS

- 1.0 Verify power is supplied from area substation #6.
- 2.0 Verify air pressure is supplied by auxiliary air compressor or plant air.

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	3.0	Reviev docum	/ Hoist Log at the beginn ented using AIS Hoist O	ing of each operating shift. perator's Log Sheet.	Checks will be
	4.0	If a rec	uired inspection goes de	linquent, perform the follow	ing:
		4.1	GO TO WP 13-QA3004	and generate a nonconform	nance report.
		4.2	Immediately notify the H Compliance Section of E inspection.	azardous Waste Facility Pe Environment, Safety, and He	ermit (HWFP) ealth of the delinquent
		4.3	Schedule and complete	the inspection.	
		4.4	Document the following days:	in a letter to HWFP Complia	ance within five working
			• The schedule for ins	pection	
			• The reason(s) why the	ne inspection was not perfor	rmed
			<ul> <li>Any measures taken performing the inspective performing the inspective performance of the inspective performance of the performance</li></ul>	to offset negative impacts i ction	resulting from not
			• Actions to prevent fu	rthe <sup>÷</sup> delii quencies	
		4.5	HWFP Compliance, <b>GC</b> is required.	TO WP 04-IM1000 and det	termine if a WIPP Form
	PER	FORM			
	1.0	HOIST	AND ANC!' LARY EQU	PMENT STARTUP	
		1.1	Perform the following up	on entering the hoist house	:
			1.1.1 Notify Central be started.	Monitoring Room Operator	(CMRO) that hoist will
		1.2	Ensure the following:		
			• Hoist Main 33P-HMC	4/1 is closed.	
			• Oil level in brake sys	tem reservoir is visible in si	ght glass.
			Hydraulic pump disc	onnect 33P-DP03/2 CB-4 is	s closed.
			• Rope window lower	cover is open.	

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	1.3	Visually inspect Galloway Winches for the following:	
		<ul> <li>Compressed air &gt; 80 psi supplied to the Galloway Winche</li> </ul>	es
		Water drained from air receivers and traps	
		Gear assembly lubrication	
		Winch brake lubricator oil level	
		Winch brakes for damage	
		• Leaks (air or oil)	
		Mounting bolts and attachments for looseness	
		<ul> <li>Linkages and pins for damage or looseness</li> </ul>	
	Upon	NOTE completion of Step 1.4, the hoist is ready for preoperational ho	pist and
	conve	eyance checks.	
	conve	Perform the AIS Hoist Daily Inspection per Hoist Operator's I Book (this shall include inspection for deterioration).	_og Sheet
	1.4 Any cl	Perform the AIS Hoist Daily Inspection per Hoist Operator's L Book (this shall include inspection for deterioration). NOTE checks with abnormal results must be reported to Hoisting Oper agement and resolved prior to operation of the hoist.	₋og Sheet rations
2.0	1.4 Any cl Manag	Perform the AIS Hoist Daily Inspection per Hoist Operator's I Book (this shall include inspection for deterioration). NOTE checks with abnormal results must be reported to Hoisting Operation agement and resolved prior to operation of the hoist.	₋og Sheet
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2.0	1.4 Any cl Manag PREC 2.1 2.2	Perform the AIS Hoist Daily Inspection per Hoist Operator's I Book (this shall include inspection for deterioration). NOTE checks with abnormal results must be reported to Hoisting Operator agement and resolved prior to operation of the hoist. OPERATIONAL HOIST AND CONVEYANCE CHECKS Operator verify all indicator lights on operator's console are to properly. Operator, conduct mine phone check with Toplander.	Log Sheet
2.0	2.1 conve	Perform the AIS Hoist Daily Inspection per Hoist Operator's I Book (this shall include inspection for deterioration). NOTE checks with abnormal results must be reported to Hoisting Operatore agement and resolved prior to operation of the hoist. OPERATIONAL HOIST AND CONVEYANCE CHECKS Operatore worify all indicator lights on operator's console are to properly. Operator, conduct mine phone check with Toplander. Operator, ensure the following:	Log Sheet
2.0	2.1 conve	Perform the AIS Hoist Daily Inspection per Hoist Operator's I Book (this shall include inspection for deterioration). NOTE checks with abnormal results must be reported to Hoisting Operator agement and resolve dip for to operation of the hoist. OPERATIONAL HOIST AND CONVEYANCE CHECKS Operator, vorify all indicator lights on operator's console are to properly. Operator, conduct mine phone check with Toplander. Operator, ensure the following: • Conveyance in RELEASED condition	∟og Sheet rations
2.0	2.1 2.2 2.3	Perform the AIS Hoist Daily Inspection per Hoist Operator's I Book (this shall include inspection for deterioration). NOTE checks with abnormal results must be reported to Hoisting Operatored agement and resolved prior to operation of the hoist. OPERATIONAL HOIST AND CONVEYANCE CHECKS Operatore worify all indicator lights on operator's console are to properly. Operator, conduct mine phone check with Toplander. Operator, ensure the following: • Conveyance in RELEASED condition • Collar clear of obstructions	Log Sheet

### NOTE

The Deadman Switch must be depressed whenever the hoist is in motion. The hoist should **NOT** be operational when Operator has released the Deadman Switch.

- 2.4 Verify that Lilly Brake Solenoid de-energizes and brake sets when Deadman Switch is released.
- 2.5 Perform the following to conduct a static test of the Emergency Stop (E-Stop) switch at the AIS hoist console:
  - 2.5.1 Depress E-Stop push button.
  - 2.5.2 Ensure the following:
    - Power ON GIL goes out.
    - Ready GIL goes out.
    - Hoist Main 33P-HMO4/1 opens.
    - Brakes remain set.
  - 2.5.3 Pull up E-STOP push button.
  - 2.5.4 Reset Hoist Viv in 33P-HMO4/1.
- 2.6 Perform the following to conduct Manual Brake Test:
  - 2.6.1 E sure Manual Brake is set.
  - 2.6.2 Place Hoist Controller in Lower position momentarily applying at least 600 amps of Motor Power.
  - 2.6.3 Verify brake does **NOT** slip.
  - 2.6.4 Return Hoist Controller to NEUTRAL.
- 2.7 Perform the following to conduct a High Overtravel Test:
  - 2.7.1 Ensure OT/BO switch in OFF position.
  - 2.7.2 Verify collar door open GIL is illuminated.
  - 2.7.3 Hoist to Lilly Overtravel limit as indicated on the hoist drum.

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		2.7.4	Verify the following occur:	
			Hoist Brakes set.	
			• Ready indicator GIL goes OFF.	
	2.8	Perform	the following for High Back Out (HBO) Test:	
		2.8.1	Place the OT/BO switch in the HBO position.	
		2.8.2	Depress the Overtravel Foot Switch.	
		2.8.3	Verify Overtravel Bypass Indicator illuminates a	nd flashes.
		2.8.4	Verify Hoisting power can <b>NOT</b> be applied.	
		2.8.5	Lower the conveyance away from the O restrave Dynamic Brake.	el position using
		2.8.6	Stop conveyance when out of Overtravel position	on.
	2.9	Perform	the following to conduct an Orcospeed Test:	
		2.9.1	Apply one point of LOW ERING power.	
		2.9.2	Ensure rope soced is at approximately 75-100	fpm.
		2.9.3	Verify the foll wing occur:	
			<ul> <li>Over speed Alarm Bell rings.</li> </ul>	
		(	Brakes are set.	
			Ready GIL goes out.	
	Over	speed Ala	<b>NOTE</b> arm Bell will silence when convevance stops.	

- 2.9.5 Place Manual Brake to set.
- 2.9.6 Verify Hoist reset by observing the following:
  - Power ON GIL ON.
  - Ready GIL ON.
  - Brake Solenoid energizes.

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2.9.7 Release conveyance to Toplander for completion of AIS Collar Daily Inspections per Hoist Operator's Log Sheet Book.

#### NOTE

Conveyance is tripped through the shaft at a speed commensurate with shaft condition and Galloway position, while observing the Hoist Speed and Motor Amps meters for indication of a shaft obstruction.

- 2.10 Hoist Operator, perform the following:
  - 2.10.1 Verify collar door open GIL on the hoist console is illuminated.
  - 2.10.2 Lower conveyance per signals.
  - 2.10.3 Set Dynamic Braking Amps Rheostat 25, ecessary.
  - 2.10.4 Apply Dynamic Braking.
  - 2.10.5 Release brake to lower conveyance.

### NOTE

Hoist speed will increase when Dynamic Brake lever is released.

- 2.11 Perform the following to increase hoist speed when out of retard zone (100- to 120-ft-depth f or a collar):
  - 2.11.1 Release the Dynamic Brake lever.
  - 2.11.2 Verify all **SEVEN** points of power are sequentially applied as inclicated by accelerating contactor WIL lights A1-A7 on hoist console.
  - 2.11.3 Set the Dynamic Brake Rheostat to position appropriate for depth of Galloway in shaft.
- 2.12 Perform the following when approaching the Galloway:
  - 2.12.1 Slow hoist using the Manual Brake.
  - 2.12.2 Apply Dynamic Braking.
  - 2.12.3 Stop conveyance at approximately 60 feet above Galloway.
- 2.13 Perform the following to conduct Manual Brake Test:
  - 2.13.1 Ensure Manual Brake is set.

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	2.13.2	Place Hoist Controller in Lower position least 600 amps of Motor Power.	momentarily applying at
	2.13.3	Verify brake does <b>NOT</b> slip.	
	2.13.4	Return Hoist Controller to NEUTRAL.	
		CAUTION	
Whe the C Over	n Steps 2.1 Salloway to travel area	4 and 2.15 are to be performed, personn guide the conveyance through the Gallov . This will prevent damage to equipment.	el are needed on way en route to the
2.14	Perform	the following to conduct Low Overtravel	rect.
	2.14.1	Ensure OT/BO switch in OFF position	
	2.14.2	Lower conveyance <b>SLOWLY</b> to the Lilly indicated on the dial indicator and Hoist	y limit position as Drum.
	2.14.3	Verify the following occur	
		• Hoist Brakes a.e sr.t.	
		• Ready Git gues OFF.	
	2.14.4	Set manual crake.	
2.15	Perform	the following to conduct a Low Back Out	(LBO) Test:
	2.15.1	Place the OT/BO switch in the LBO pos	sition.
	2.15.2	Depress the Overtravel Foot Switch and	d Deadman Switch.
	2.15.3	Verify Overtravel Bypass RIL illuminate	s and begins flashing.
	2.15.4	Verify Lowering power can NOT be app	lied.
		CAUTION	
To pi must hoist	revent injur not be rele ing directio	y to personnel and/or damage to equipme eased until motor torque is sufficient to mo n.	ent, manual brake ove conveyance in

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		2.15.6	Release manual brake.
		2.15.7	When conveyance clears limit switches, stop conveyance.
		2.15.8	Return OT/BO switch to OFF and release Overtravel Foot Switch.
	2.16	Hoistma	n, inform CMRO that hoist checks are complete and satisfactory.
3.0	PREO	PERATIC	ONAL GALLOWAY CHECKS
	3.1	Ensure C on.	Galloway winch starters 33P-HS-HS-010A and 33P-HS-011A are
	3.2	Verify op follows:	peration of Winch Operator's Console (WOC) Deadman Switch as
		3.2.1	Depress WOC Deadman Foot ິ wາເເ່ກ.
		3.2.2	Depress WOC RESET push button.
		3.2.3	Verify both RESET GIL on.
		3.2.4	Remove foot from WOC Deadman Foot Switch.
		3.2.5	Verify both RESET GIL extinguish.
		3.2.6	Depress WOC Deadman Foot Switch.
		3.2.7	E ep. କରୁ WOC RESET push button.
		3.2.8	Verify both RESET GIL on.
	3.3	Verify op	peration of E-STOP switch as follows:
		3.3.1	Depress E-STOP push button.
		3.3.2	Ensure both RESET GIL extinguish.
	3.4	Perform follows:	the steps to reset motor starters 33-HS-010A and 33-HS-011A a
		3.4.1	Place ON/RESET/OFF switches to RESET position.
		3.4.2	Return ON/RESET/OFF switches to the ON position.
		3.4.3	Depress WOC Deadman Foot Switch.

3.4.4 Depress WOC RESET push button.

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### 3.4.5 Verify both RESET GIL illuminate.

### 4.0 GALLOWAY NORMAL OPERATION

**NOTE** The Hoist conveyance and Galloway proximity alarm will sound when the Galloway approaches the conveyance.

- 4.1 Hoist Operator, perform the following at WOC:
  - 4.1.1 Depress WOC Deadman Switch.
  - 4.1.2 Depress RESET push button on the WOC.
  - 4.1.3 Verify both RESET GIL illuminate.
  - 4.1.4 Move Hoist/Lower Lever in requested airection.
  - 4.1.5 Verify Motor Amps remain at 30 amps or less.
- 5.0 GALLOWAY SLACK ROPE OPERATION

### NOTZ

The AIS Galloway is equipped with a slack rope alarm that will trip power from winches and the AIS main cost. To execute Steps 5.1 and 5.2, Hoisting Operations Management must be notified for authorization.

- 5.1 Hoist Operator. portorm the following:
  - 5.1.1 Verify power to main hoist and Galloway winches is tripped off lir.e.
  - 5.1.2 Depress RESET/SLACK ROPE bypass push button on WOC.
  - 5.1.3 While holding RESET/SLACK ROPE bypass push button, move Galloway winches in direction directed by bell signals.
  - 5.1.4 When slack rope condition is cleared, release push button.
  - 5.1.5 Hoisting Operations Management, authorize any further movement of hoisting systems.

## NOTE

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The main hoist can be utilized during a slack rope condition of Galloway, for disembarking of personnel on the Galloway.

5.2 **IF** main hoist is needed to move before Galloway slack rope condition is cleared,

**THEN** perform the following:

- 5.2.1 Place mode switch on the hoist console to CSRBP (communication slack rope bypass).
- 5.2.2 Depress and hold Overtravel Foot Switch and Deadman Foot Switch simultaneously.
- 5.2.3 Verify that RED indicator light OT/CSR by pairs light illuminates.
- 5.2.4 Hoist or lower conveyance as directe 1 by bell signals.

### 6.0 HOIST PLANT SHUTDOWN

- 6.1 Hoist Operator, perform the following
  - Park conveyance in released position.
  - Notify CMRO hoist will be shut down.
  - Close rope window Jov er cover.
- 6.2 Place following disconnects in OFF position:
  - 6.2.1 How Main Breaker 33P-HMO4/1
  - 6.2.2 Hydraulic Pump Disconnect 33P-DP03/2 CB-4
  - 6.2.3 East Galloway Starter 33-HS-011A
  - 6.2.4 West Galloway Starter 33-HS-010A
  - 6.2.5 Air Compressor Disconnect 33P-SWO4/1

# 7.0 REVIEW

- 7.1 Hoisting Manager, perform the following:
  - Review AIS Hoist Operator's Log Sheet for completeness.
  - Sign the Log Sheet as an indication of review approval and validation.

#### 8.0 MANAGEMENT OF RECORDS

All records produced during the implementation of this procedure are Resource Conservation and Recovery Act (RCRA) operating records and must be maintained in accordance with the (Hoisting Operations) Records Inventory and Disposition Schedule (RIDS). Final disposition after facility closure will be in accordance with the RIDS. Record retention is automatically extended by any enforcement action involving these records.

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### Attachment 1 - General Safety Precautions

The following safety precautions **SHALL** remain in effect during **ALL** operations of the AIS Hoist.

- Only authorized personnel **SHALL** be in the Hoist Control room/Hoist Electric room. Other personnel requiring entry may obtain authorization from Hoisting Operations.
- Smoking is prohibited within 25 feet of the shaft.
- Only qualified personnel familiar with the posted signal system **SHALL** be responsible for giving and receiving signals for movement of the conveyance.
- Hoist Operators will accept hoisting instructions only from the regular signal system unless it is out of order. In that event, or in an emergency, the Hoist Operator SHALL accept instructions directing conveyance movement only from Hoist Management.
- Signal system signs **SHALL** be posted at all control stations where signals can be given or received.
- "Men Working in Shaft" signs **SHALL** is posted at all devices controlling hoisting operations that may cause personnel en langerment. These signs must be posted when maintenance is being performed on the hoist and the conveyance is at a station level where personnel may inadvertently board.
- Hoist **SHALL** be retested following all maintenance activities relating to the operation of the Hoist in accordance with 30 CFR 57. Record all work performed in AIS Poist Operator's Log Sheet Book.
- **IF** it is found or subjected that any part of the Shaft or hoisting equipment is **NOT** functioning property, **THEN** the hoist **SHALL NOT** be used until the malfunction has been repaired or adjustments made.
- Before hoisting personnel, and to ensure that the Shaft is clear of obstructions, at least one round trip **SHALL** be performed after any of the following:
  - Any Hoist or Shaft repairs, or related equipment repairs that might restrict or obstruct conveyance clearance.
  - Any oversize or overweight material or equipment trips that might restrict or obstruct conveyance clearance.
  - Hoist remaining idle for one shift or Operator shift change.

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#### Attachment 2 - Bell Signal System

Movements of the AIS Hoist are normally directed by the use of a Bell Signal System. Bell system actuators are located at the collar/stations and Master Control Station (MCS). A bell cord extending through the shaft may be used from any point in the shaft if the conveyance is not in motion. Radio-operated electronic signals are available on the hoist conveyance and the Galloway work platform.

The mine pager phone system, a voice system, is utilized to call the conveyance to a certain level or station. At WIPP, the Shaft Tender uses the mine phone system to the Hoist Operator instead of a "Call Bell" system.

BELL SEQUENCE	INSTRUCTION/MEANING
	Station Signals
1-2 Bells	Collar
1-3 Bells	Station
	Command Sigra's
1 Bell	Stop immediately fin motion
2 Bells	Lower Norma' - Materials
3 Bells	Hoist Normal - Materials
3-1 Bells	Hoist SI w Men/Materials
3-2 Bells	Love Slow - Men/Materials
3-3 Bells	Nark
3-3-1 Bells	Hoist - Creep
3-3-2 Bells	Lower - Creep
2-1-2 Bells	Release Cage (conveyance)
2-2-2 Bells	Bring Cage (conveyance) to Galloway
1-2-3-1 Bells	Collar - men aboard
1-3-3-2 Bells	Station - men aboard
7 Bells	Danger Signal - When followed by a Station Signal, calls cage to station

AIS HOIST SIGNALS

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Attachment 2 - Bell Signal System (continued)

### AIS GALLOWAY SIGNALS

BELL SEQUENCE	INSTRUCTION/MEANING	
Command Signals		
9 Bells	Prepare to Operate Galloway	
4 Bells	Hoist	
5 Bells	Lower	
1 Bells	Stop	
4-3 Bell	Release from Galloway	
Leveling Signals		
2 long Bells	West Winch	
3 long Bells	East Winch	
(Then use Command Signals)		

When the conveyance is spotted at the colla: or station level, the Shaft Tender will not open the conveyance doors until the stop bell is received from the Hoist Operator.

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AIS HOIST OPERATOR'S LOG

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# Attachment 3 - AIS Hoist Operator's Log Sheet Sample

DATE:								
	NIGHT SHIFT			DAY SHIFT		I have seed and extend all antice made by	MID SHIFT	laisteen and all apacial
I have read and noted all entries made by the previous shift hoistman and all special			I have read and noted all entries made by the previous shift noistman and all special instructions			I have read and noted all entries made by instructions	the previous shift r	oseman and as special
instructions. I tested the boist brakes at	(time) and m	aport as follows:	I tested the hoist brakes at	(time) and report a	a follows:	I tested the hoist brakes at	_(time) and report	as follows:
						There are taken and the set of th		
I have tested the overwinds at	(time), and	report as follows	I have tested the overwinds at (ume), and report as lowows:			I have tes 1 the overwhold at (ame), and report as lokews		
I made the following trial trips and rep	port as follows (giv	tobas and their interlocks; and	The working coordition of the boist: including brakes, distones, and their interlocks; and depth			The way and the hold include	no brakes, clutches	and their interlocks; and depth
depth indicator: and all safety device	a and fittings: as fo		indicator; and all safety devices and fitting	as: as follows:		dicator: an. 'safety devices and fittin	as: as follows:	
The working condition of the signalin	a equipment was	as follows:	The working condition of the signaling eq	- uioment was as follo		1. working co lition of the signaling eq	uipment was as folk	we:
the working contactor of the eigenet	Penimund bu		Holetman Persenal by			Hoist, an Reviewed by:		
Hometimen								
						•		
				<b>T</b> 11.17			TIME	COMMENTARY
AIS HOIST INSPECTION	TIME	COMMENTARY	AIS HOIST INSPECTION	LIME	COMMENTAR	1 Examination of Work Area		COMMENTARY
1 Examination of Work Area	<u> </u>		2 Brake Baths - Clean			2 Brake Paths - Clean		
2 Brake Palhs - Clean	<u> </u>		3 Hoist Bearings - Oil Flow	n		3 Hoist Bearings - Oil Flow	<u> </u>	
4 Pump Reservoir - Oil Level	<u> </u>		4 Pump Reservoir - Oil Level			4 Pump Reservoir - Oil Level	•	
5 Lilly Controller - Functional			5 Lilly Controller - Functional	•		5 Lilly Controller - Functional	•	
6 Hoist GenNo loose Connections	o		6 Hoist GenNo loose Connections	0		6 Hoist GenNo loose Connections	□	
7 Notified CMR - Hoist Operable	·		7 Notified CMR - Hoist Operable	· · · · · · · · · · · · · · · · · · ·		7 Notified CMR - Hoist Operable	▫	
TIME			TIME			TIME		
, me								
Commenta:			Commenta:			Comments:		
Heistman Time			Hoistman Time			Hoistman Time		
Collar Inspection			Collar vection			Collar Inspection		
1 Examination of Work Area	□		1 Examination of Wo. `rea	P		1 Examination of Work Area	<u> </u>	
2 Rope Connection - No Slippage	D		2 Rope Connection - No page	<u> </u>		2 Rope Connection - No Supplinge	<u> </u>	
3 Cage Latches & hinges	<u> </u>		3 Cage atches & hinges	<u> </u>		4 Cage Weids - No Gracks	0	
4 Cage Welds - No Cracks	<u> </u>		5 Care Ph or Partio	<u> </u>		5 Care Phone or Radio	0	
5 Cage Phone or Radio	<u> </u>		6 Mine Phone Sunctional			6 Mine Phone - Functional		
7 Coller Doors			7 Cr vors			7 Collar Doors	o	
8 Bell Signal - Functional			8 all Sig Func. sai			8 Bell Signal - Functional	₽	
		•				Commenter		
Comments:			Comr Ma:			Continenta:	-	
Toplander Time			nplan Time			Toplander Time		
						Station Inspection		
Station Inspection	-		1 Examination of Work Area			1 Examination of Work Area		
3 Examination of work Area	<u> </u>		2 Safety Gates - No Damage		-	2 Safety Gates - No Damage		
3 Bell Signal - Functional	0		3 Bell Signal - Functional			3 Bell Signal - Functional	•	
4 Mine Phone - Functional			4 Mine Phone - Functional	g		4 Mine Phone - Functional	▣	
			Commenter			Commente		
Comments:								
Bottomlander Time			Bottomlander Time			Bottomlander Time		
		OOL SENTARY	CALLOWAY INSPECTION	TIME	COMMENTARY	GALLOWAY INSPECTION	TIME	COMMENTARY
GALLOWAY INSPECTION	TIM	COI IENTART	1 Exemination of Work Area		COMMENTART	1 Examination of Work Area		oommetri/iti
2 Communication - Eurotional			2 Communication - Functional	0		2 Communication - Functional		
3 Rope Connections			3 Rope Connections			3 Rope Connections	•	
4 Structure Welds - No Cracks			4 Structure Welds - No Cracks	•		4 Structure Welds - No Cracks	o	
5 Trap Doors & Wings	o		5 Trap Doors & Wings	·		5 Trap Doors & Wings		
6 Fire Extinguisher - Charged	·		6 Fire Extinguisher	<u> </u>		o rine Extinguisher 7 Einst Aid Kit . Liaphin	J	
7 First Ald Kit - Usable	9		/ rirat Aid Kit - Usable	<u>ч</u>		/ FISLAR AR AR + USADIO	u	
Comments:			Comments:			Comments:		
Operator Time	_		Operator Time	_		Operator Time	-	
				_				
					ONE			
			SPEU Bequires Tim	. Date. & Authorize	d Signatures			

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# Attachment 3- AIS Hoist Operator's Log Sheet Sample (continued)

		AIS HOIST	OPERATOR'S LOG				
SHAFT INSPECTION RECORD Date Craft Weekly Inspection FAC: 361		HOISTING MACHINERY RECORD MECHANICAL Date Craft Instructions		ELECT	ELECTRICAL HOISTING EQUIPMENT RECORD		
Item Examined	OK SEE COMMENTS	CIRCLE THE EQUIPMENT # SERVICED					
33-H-007 AIS WIRE ROPES GALLOWAY SHAFT LINER WATER RINGS & DRAINS WALL ROCK & BROW CONVEYANCE CONVEYANCE CABLE, PIPES & SUPPORTS TRACK LIMIT SWITCH	SIGN OR INITIAL THESE COLUMNS	31-G-001 33-H-001 33-H-002 33-H-000 33-H-010 33-H-010	AIR COMP. AIB HOIST AIB HEADFRAME LILLY CONTROLLER LILLY CONTROLLER NEW ERA WINCH-WEST NEW ERA WINCH-EAST	4-00 33-h, 11A 33-HS: 10A 39-WC - 003/1 39-RE // 39-RE // 39-RE // 39-RE // 39-RE //	AIS HOIST MOTOR M/S - EAST GALLOWAY WINCH M/S - WEST GALLOWAY WINCH GALLOWAY CONTROL PANEL HOIST CONTROL HOIST CONTROL WEST GALLOWAY WINCH MOTOR EAST GALLOWAY WINCH MOTOR		
			COMMENTS	3	COMMENTS		
			· · · · · · · · · · · · · · · · · · ·				
			0				
	SIGNATURE HOIST MANAGER (OPS)	0,	SIGNATURE HOIST MANAGER (OPS)		SIGNATURE HOIST MANAGER (OPS)		

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