

SIGNALING CRANES Procedure





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Signaling Cranes Procedure This Document is Uncontrolled in Hard Copy Format Version 1.1

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Purpose

Overhead cranes, hoists, and rigging equipment are used by IPS+ITCS employees for lifting and moving materials and require coordinated and safe signaling procedures.

Scope

Applies to all IPS★ITCS employees who operate overhead cranes, hoists, and rigging equipment in the scope of their job duties and assignments.

Key Responsibilities

Managers and Supervisors

- Are responsible to ensure that employees and contractors are trained and qualified on the proper operations and have been trained in crane and hoist safety including signaling safety.
- Are responsible to see that all provisions of this procedure are followed and that signaling operations are performed and the equipment is in safe operating condition.

Employees

- Employee operators are responsible to follow the requirements of this program.
- Employees designated as signalers are responsible to follow the requirements of this program.

General Requirements

Only one person may give signals to a crane at a time with the exception of emergency stop signals. Only one person shall give signals to a crane at a time, unless the emergency stop signal is given due to safety issues.

IPS★ITCS shall ensure the testing of communication devices on site prior to beginning work. The device used to transmit signals must be tested on site before beginning operations to ensure that the signal transmission is effective, clear and reliable.

When a Signal Person Must Be Provided

A signal person must be provided in each of the following situations:

- The load travel or the area near or at load placement is not in full view of the operator.
- When the equipment is traveling, the view in the direction of travel is obstructed.
- The operator or person handling the load determines a signal person is necessary due to site specific safety concerns.

Stop Work Immediately

If signals between the operator and signal person are interrupted the operator must safely stop operations until communication is reestablished. The ability to transmit signals between the operator and signal person must be maintained. If the ability to transmit signals is interrupted at any time, the operator must safely stop operations requiring signals until communication is reestablished and a proper signal is given and understood.

The Types of Signals to be Used

Signals to operators must use the hand, voice, audible method. Means of transmitting the signals (direct line of sight, radio, etc.) must be suitable and appropriate for the site conditions. Hand signals must follow the Standard Method in Appendix A of Subpart CC of 29 CFR 1926.1419. See Standard Hand Signals illustrations at the end of this procedure.

Qualification Requirements of the Signal Person

Mandatory training is required for the following crane related personnel:

- Overhead power lines
- Signal persons
- Competent/qualified persons
- Operators
- Crush/pinch points
- Tag-out

Each signal person must:

- Know and understand the type(s) of signals used;
- Be competent in the application of the type of signals used;
- Have a basic understanding of equipment operation and limitations, including the crane dynamics involved in swinging and stopping loads and boom deflection from hoisting loads;
- Demonstrate that they meet the qualification requirements through an oral or written test, and through a practical test.

MOBILE CRANE HAND SIGNALS						
Main Hoist	Auxilliary Hoist	Hoist Load	Hoist Load Slowly	Stop		
8	Baise Boom	8				
	nunoo boom					
Raise Boom	& Lower Load	Lower Load	Lower Load Slowly	Emergency Stop		
Raise Boom	& Lower Load	Lower Load	Lower Load Slowly	Emergency Stop		
Raise Boom	& Lower Load	Lower Load	Lower Load Slowly	Emergency Stop		
Raise Boom	& Lower Load	Lower Load	Lower Load Slowly	Emergency Stop		

Revision History

Rev	Rev Date	Rev By	Approved By	Description
1.0	1.3.2022	Shayne Torrans	Shayne Torrans	Initial Procedure Document
1.1	12.20.2022	Shayne Torrans	Shayne Torrans	Format Revision

Approvals:

Procedure Owner

Print Name

Date

Signature

Competency Assessment

No.	Questionnaire	C/NYC
Q1		
A1		
Q2		
A2		
Q3		
A3		
Q4		
A4		
Q5		
A5		

Enclosed Attachments	
Risk Assessment	\checkmark
Environmental Aspect and Impact	V
Training and Competency	\checkmark
Measure and Evaluation Tools	\checkmark

Competency Checklist

To be filled out by Trainer and signed by Employee, Assessor and Supervisor before being returned to the HSEQT Manager for recording purposes.

Procedure	Competency	Date	Competent YES / NO	Employee Signature

(Please tick appropriate box)

This employee is competent in performing the job.

This employee has not attained the competency level.

* If the employee has not attained all competency levels, the General Manager must assess the action to be taken, provide an extension of training or alternative action as listed below.

Alternate action to be taken:

Signed By	Employee:	 Date:	
	Trainer:	Date:	
	Assessor:	 Date:	
	Regional Manager:	 Date:	

-	
- +	
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Environmental Aspects and Impacts

Identified Environmental Aspects and Impacts

The following table is a summary of the likely environmental aspects and impacts that may be identified during site inspections. The significance of each impact needs to be assessed using the Risk Assessment Model.

Activity	Aspect	Impact		
	Consumption of goods	Conservation of natural resources		
Purchasing & Administrative Work	Consumption of energy (eg. Electrical equipment and facilities)	Release of greenhouse gases and atmospheric pollution; Consumption of natural resources; Habitat loss		
	Generation of waste (eg. Paper)	Consumption of space for waste disposal; Habitat loss		
Climate Control	Consumption of energy	Release of greenhouse gases and atmospheric pollution; Consumption of natural resources; Habitat loss		
	Generation of noise	Disturbance to community; Habitat loss		
Cleaning of – offices / vehicles	Storage, use and release of chemicals	Contamination of air, water or soil; Risk to human health		
	Samp Consumption of energy	Release of sreachous a gases and armospheric oc lur o ; Consumption of natura resources; Loss of habitat at all stages of generation; Light pollution		
	Consumpton f go ds (eg. Oil)	Con such tich y natural resources; Generation of waste; Habitat loss; Biodiversity impacts		
Transport (Fleet vehicles / staff travel)	Generation of waste (eg. Oil)	Consumption of space for waste disposal; Potential contamination of water or soil; Habitat loss		
	Exhaust emission	Release of greenhouse gases and atmospheric pollution		
	Use of dangerous goods (eg. Batteries)	Potential contamination of air, water or soil; Risk to human health		
	Generation of noise	Disturbance to community; Habitat degradation		
Operations				

Risk Assessment



Risk Assessment // insert name here						
Step No: Logical sequenc e	Sequence of Basic Job Steps documented in the Procedure, Work Instruction and project plans. Break down Job into steps. Each step should be logical and accomplish a major task.	Potential Safety & Environmental Hazards/Impacts at the site of the Job Identify the actual and potential health and safety hazards and the environmental impacts associated with each step of the job.	Risk Rating Refer to the risk matrix or HSEQT.PRO. Risk Mgt	Recommended Corrective Action or Procedure Determine the corrective actions necessary to reduce the risk to as low as reasonably practical (ALARP) refer to HSEQ.PRO.Risk Mgt. The risk must be rediced or controlled to ALARP before work commences. Document who is responsible for implementing the controls to manage each hazard identified.	Risk Rating refer to the risk matrix or HSEQT.PRO.Risk Mgt	
1.						
2.						
3.						
4.						
5.						

Audit



Process: insert// Procedure: Insert //		Date: Audited by: Location of Audit: Area Mgr/Supervisor:			
ltem	Question	Evidence Sited	Co	omments	Conformance Score 0,3,5
1.					
2.					
3.					
4.					
5.					
6.					
7.					
AUDITOF SAFETY	R'S SIGNATURE: REP'S SIGNATURE:	CONFORMANCE SCORE: CONFORMANCE %:	/ 25	0 – Non-Conformance 3 – Continuous Improvement Opportunit 5 – Total Conformance	у