



Aerial Lifts Program

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1. PURPOSE

This program establishes operational guidelines for the use and training of aerial lifts as defined by OSHA / MSHA and other regulatory or consensus standards.

2. SCOPE

This program shall apply to all Mosaic Fertilizer LLC Phosphates Business Unit employees and contractors performing work on Phosphates Business Unit property. Covered by this program are:

- | | |
|----------------------------|--------------------------|
| Aerial Device | Extensible Boom Platform |
| Aerial Platform | Insulated Aerial Device |
| Articulating Boom Platform | Vertical Tower |



3. APPENDICES

The following appendices are associated with this Program:

Appendix	Appendix Title
A	Daily Prior-to-Use Checklist
B	JLG Trained-On Letter of Interpretation

4. DEFINITIONS

- 4.1 Aerial Device - Any vehicle-mounted device, telescoping or articulating, or both, which is used to position personnel.
- 4.2 Aerial Platform - A mobile device that has an adjustable position platform, supported from ground level by a structure.
- 4.3 Articulating Boom Platform - An aerial device with two or more hinged boom sections.
- 4.4 Bucket Truck – A utility truck outfitted with an extendable boom and a bucket or platform installed at the end.
- 4.5 Extensible Boom Platform - Any aerial device with a telescopic or extensible boom. Telescopic derricks with personnel platform attachments shall be considered to be extensible boom platforms when used with a personnel platform.
- 4.6 High Activity Work Zone – Work activity/project taking place within twelve feet of the centerline of the track that has high potential for workers, materials, or equipment to cross into the eight feet minimum clearance zone.
- 4.7 Insulated Aerial Device - An aerial device designed for work on energized lines and apparatus.
- 4.8 Platform - Any personnel-carrying device (basket or bucket) which is a component of an aerial device.
- 4.9 Vertical Tower - An aerial device designed to elevate a platform in a substantially vertical axis.
- 4.10 Outriggers - Devices that increase the stability and that are capable of lifting and leveling the aerial platform.
- 4.11 Operator - A qualified person who controls the movement of an aerial platform.
- 4.12 Qualified Person - A person who by reason of knowledge, experience, or training is familiar with the operation to be performed and the hazards involved.
- 4.13 Traveling - the main body of the aerial lift is in motion, wheels or tracks are moving. Moving the basket while the main body is stationary IS NOT traveling.

5. REQUIREMENTS

5.1 General

- 5.1.1 Only qualified personnel trained on aerial lifts or bucket trucks may operate an aerial lift or bucket truck.

5.2 Daily Pre-Operational Checklist (See Appendix A).

- 5.2.1 Before use each day or at the beginning of each shift (not to exceed twelve hours) the aerial lifts shall be given a visual inspection and a functional test using the Pre-Operational Checklist.
- 5.2.2 Each operator who uses the aerial lift during the shift must review and sign-off on the Daily Prior-to-Use Checklist. A copy of the checklist must be kept on the piece of equipment while in operation.
- 5.2.3 If anything is found during the inspection that may affect the safety of the lift, it shall be removed from service and tagged out until repairs are made.



- 5.2.4 The completed checklist must be kept on file for the current month + thirty (30) days, Any checklists noting defects and/or repairs must be archived for no less than five (5) years.

5.3 Operation

- 5.3.1 The aerial lift must be operated on a firm, flat level surface.
- 5.3.2 Bucket Trucks may allow for use with up to five (5) degrees of slope, on a firm surface, but only in accordance with manufacturer instructions.
- 5.3.3 Modifications or alterations of the aerial lifts are prohibited without the written consent of the manufacturer.
- 5.3.4 Never attach wire, cable or any similar items to aerial lifts without the manufacturer's written approval. Examples are: welding leads, extension cords, torch hoses, air hoses, etc.
- 5.3.5 The operator must have a wind speed indicator in the basket of the lift. If either wind gusts of 25 mph or sustained wind speed exceeding 20 mph (or lower if so designated by the equipment manufacturer), the use of the aerial lift shall be stopped.
- 5.3.6 The aerial lift shall never be used in place of a crane or its load limits exceeded.
- 5.3.7 Altering or disabling of interlocks or other safety devices is prohibited.
- 5.3.8 Personnel shall maintain a firm footing on the platform floor. Use of planks, ladders, toeboards, midrails, top rails or any other devices on the aerial platform for achieving additional height or reach is prohibited.
- 5.3.9 Outriggers:
- Each outrigger shall be visible to the equipment operator while extending or retracting. If an outrigger is not visible a signal person must be used.
 - While extending or retracting outriggers the operator shall give a warning sound, such as sounding the horn or alarm, to notify all personnel in the immediate area that the outriggers are being moved. An automatic warning sound or alarm is the preferred method of warning personnel.
 - A signal person may be used to warn personnel if the lift is not equipped with an alarm.

5.4 Aerial Lift Traveling

- 5.4.1 When operating the Aerial Lift for the purpose of traveling, the Operator shall:
- Maintain a clear view of the path being travelled
 - Maintain a safe distance from obstacles (no less than 1 foot)
 - Use a Spotter when necessary to ensure safe clearance
 - Maintain effective communications with Spotter when a Spotter is used
 - Wear the appropriate fall hazard equipment (see section 5.7.2 Fall Protection)

5.5 Aerial Lift Repositioning within a Workspace

- 5.5.1 Prior to moving the elevated Aerial Lift in the workspace, the Operator shall:
- Clearly communicate the intent to move to any other workers in or near the Aerial Lift
 - Ensure clearance from obstacles exists in all directions
 - Ensure workers in the Lift are secure and prepared for the movement
 - Ensure no equipment protrudes from the basket to prevent impact or entanglement
 - Equipment manufacturer operating manual allows the lift to be moved



5.6 Safe Working Distances

- 5.6.1 When operating mobile cranes, mobile equipment, aerial lifts, or any mechanical equipment under, by or near power lines they shall be operated in accordance with the North America Business High Voltage Lines and Cables Program.
- 5.6.2 When operating Aerial Lifts near railroad tracks they shall be operated in accordance with the recommended minimum clearance of at least 8 feet from the center line of the track. Any areas less than 8 feet shall be marked as low clearance areas.
- 5.6.3 In high activity work zones, the minimum clearance zone should be clearly delineated by red barricade tape or equivalent. Where there is high potential for workers, materials or equipment to cross into the 8 feet minimum clearance zone, the track will be blue flagged and locked out per the Railroad Lockout Procedure.

5.7 Fall Protection

- 5.7.1 All personnel in the platform shall use fall protection devices and other safety gear as required at all times.
- 5.7.2 The operator and passenger must use a fall protection harness with a lanyard properly attached to the anchor point when in the basket.
 - Specific to travelling the aerial lift, a 4-foot/1.2 meter fixed length safety lanyard, shall be worn by the operator and any passenger in the basket. This requirement is to prevent a worker from being ejected out of the basket. A retractable or shock absorbing type shall not be used.
 - For more mobility in the basket, occupants may switch from the 4 ft / 1.2 meter safety restraint to other approved lanyard once the aerial lift is parked in the work location.
- 5.7.3 For working situation where the basket is positioned over water, or the tipping radius is over water, refer to the EHS Water Safety Program, section 4.9, Equipment Work Near Water (Non-Earth and Non-Gypsum related, 4.9.6c).
- 5.7.4 The operator shall not tie the lanyard off to anything outside the basket, or tie off to the aerial lift when not in the basket.
- 5.7.5 Exiting from an aerial lift elevated basket through the gate is permitted only if the following conditions are met:
 - a. Equipment manufacturer's operating manual does not prohibit basket exit.
 - b. Gap between basket exit edge and the Walking Working Surface is no greater than one (1) foot when exiting
 - c. 100 percent tie-off is maintained (this is an exception to 5.7.4 above, example – double retractable lanyards)
- 5.7.6 The operator shall not tie the basket to any structure.

5.8 Equipment Specifications / Requirements

- 5.8.1 Foam filled tires.
- 5.8.2 A 5 (five) degree out of level slope indicator.
- 5.8.3 Out of level warning lights and an alarm audible from the basket.
- 5.8.4 Double handrails
- 5.8.5 Motion alarm .
- 5.8.6 Wind speed indicator in the basket.
- 5.8.7 A fire extinguisher mounted on the aerial platform.



- 5.8.8 Manufacturers Operating & Safety Manual and ANSI's Manual of Responsibilities (pertaining to specific model of aerial platform), shall be maintained on the aerial platform and available for use or review by the operator.
- 5.8.9 **Not permitted** - oscillating axles with lock-out wedges.

6. TRAINING

- 6.1 Only trained and qualified employees shall be permitted to operate aerial lifts. Employees shall be required to attend a general class and receive practical instruction from a qualified person prior to the operation of aerial lifts.
- 6.2 Equipment Specific Training shall also be required.
 - 6.2.1 Before being authorized to operate the aerial platform, the Operator shall have:
 - a. Been instructed by a qualified person in the intended purpose and function of each of the controls.
 - b. Read and understood the manufacturer's operating instruction(s) and user's safety rules, or been trained by a qualified person on the contents of the manufacturer's operating instruction(s) and user's safety rules.
 - c. Understood by reading or by having a qualified person explain all decals, warnings, and instructions displayed on the aerial platform.
 - d. Read and understand the contents of this Mosaic Phosphate Program.
- 6.3 Management responsible for aerial lift operations must attend Management Awareness for Mobile Equipment, Overhead Cranes & Rigging class.

7. INSPECTIONS

- 7.1 Pre-Operational inspections will be completed prior to use.
- 7.2 Monthly inspections will be required on all aerial lifts operated on company property. Monthly inspections will be included in maintenance PM programs.
- 7.3 Annual inspections will be performed no later than thirteen months from the date of the prior annual inspection. Annual inspections will be included in the maintenance PM programs. The inspection shall be performed by a person qualified as a mechanic on the specific make and model of the aerial platform. The inspection shall include all items specified by the manufacturer for an annual inspection.

8. PROGRAM REVIEW

- 8.1 The Phosphates EHS team will review this program annually and change/update as required.

9. CONTRACTORS

- 9.1 Contractors will only be allowed to bring and operate aerial lifts that meet the requirements of the equipment specifications of this policy.
- 9.2 Contractors must be able to show by documentation that the operator has received aerial lift training and has been trained on the specific piece of equipment that he/she will be required to operate.
- 9.3 Anytime a contractor uses a Mosaic aerial lift, they must have the equivalent documented training as a Mosaic operator.

10. RECORD RETENTION

- 10.1 Refer to the Mosaic Document and Record Control policy for record retention requirements.

11. REFERENCES

- 11.1 OSHA



- 11.1.1 29 CFR 1910.67 Vehicle-mounted elevating and rotating work platforms.
- 11.1.2 29 CFR 1926.453 Aerial Lifts
- 11.2 MSHA
 - 11.2.1 30 CFR 56.23003 Requirements for written safety program
- 11.3 ANSI / SIA
 - 11.3.1 A92.2-1990 Vehicle-Mounted Elevating And Rotating Aerial Devices
 - 11.3.2 A92.3-1990 Manually Propelled Elevating Aerial Platforms
 - 11.3.3 A92.5-1990 Boom-Supported Elevating Work Platforms
 - 11.3.4 A92.6-1990 Self-Propelled Elevating Work Platforms
- 11.4 JLG Operators and Safety Manual
- 11.5 Equipment Manufacturers Institute Safety Manual for Operators of Aerial Platforms

12. REVISION LOG

Revision Log				
Rev. No.	Requested By	Approved By	Revised By	Rev. Date
0	Mosaic Initial Issue	Safety Dept.	Safety Dept.	5/14/07
1	J Heaser – Change Safe Working Distances	Safety Dept.	Safety Dept.	7/28/10
	Reformat for ISO		D. Allen	7/6/2011
2	RCA Corrective Action	EHS PMO	EHS PMO	10/04/2022
3	Change Request	EHS PMO	EHS PMO	2/15/2023
4	MSHA Annual review required	EHS	EHS PMO	5/15/2024
5	MSHA Annual review required – correct sustained winds to 20 mph to match all other requirements	EHS	EHS PMO	5/15/2025