

DATE: July 31, 2023 Reviewed and Updated

SUBJECT: Aerial Work Platform Lifts Safety Program

REGULATORY STANDARDS: OSHA 29 CFR 1910.67, 29 CFR 1910.269(p), 29 CFR 1926.21, 29 CFR 1926.453, 29 CFR 1926.502

BASIS: Aerial work platform lifts (“aerial lifts” or “lifts”) are present at multiple locations on Salisbury University’s campus and are used and operated by a number of employees. The University recognizes that there are potential hazards associated with the use of aerial lifts. Salisbury University requires aerial lift use to conform to this policy, which is based on the ANSI/SIA A92.6-1969 standard. Further, this policy was designed to ensure that lifts are operated in a consistent and safe manner through a system of safety checks and accountability.

GENERAL: This policy applies to all University-owned and University-rented equipment designed to elevate personnel. In addition, it applies to the departments that own the equipment and the employees who use them. Examples of aerial work platform lifts include one-man lifts, scissor lifts, boom trucks, cherry pickers, etc. They may be powered or manually operated, and are considered to be aerial lifts whether or not they can rotate around a primarily vertical axis.

RESPONSIBILITY: The Environmental Safety Manager is solely responsible for all facets of this program and has full authority to make necessary decisions to ensure success of the program. The Manager is the sole person authorized to amend these instructions and is authorized to halt any operation in an area where there is danger of serious personal injury.

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Salisbury University Aerial Work Platform Lift Safety Program

- 1. Written Program.** Salisbury University Environmental Safety Manager will review and evaluate this standard practice instruction on an annual basis, when changes occur to the governing regulatory standards that prompt revision of this document, or when facility operational changes occur that require a revision of this document.

Effective implementation requires a written program for job safety and health that is endorsed and advocated by the highest level of management within this University and meets or exceeds all regulatory guidelines. This written program will be communicated to all required personnel. It is designed to establish clear goals and objectives.

- 2. General Requirements.** All facilities and equipment owned by Salisbury University will be maintained in a safe and healthful manner. Certain work conditions may create a risk of injury that can be prevented or reduced by proper use of equipment and supervision. Salisbury University will do all that is possible to ensure the safety of employees. No employee will knowingly be subjected to a hazardous condition without all possible protective measures first being implemented.

3. Aerial Work Platform Lift Safety Policy Responsibilities

- Environmental Safety Manager

Will develop an aerial work platform lift safety policy and revise it when necessary.

- Training

Upon request by the inquiring departments, Environmental Safety will assist with scheduling training for operators and users of aerial platform lifts. This office will also receive and maintain copies of all training records.

- Technical Support

Will provide technical support to departments and employees when questions or concerns arise with regards to aerial platform lift safety.

- Departmental Responsibilities

Upon the purchase of an aerial platform lift, the department shall:

1. Ensure that the operating and maintenance manuals have been received.
2. Acquire repair and parts manuals, when needed.
3. Provide the manufacturer of the lift with the name and address of the university department, along with the model and serial number

of the lift, for warranty purposes.

4. Perform an annual inspection on the lift prior to placing the unit in service.
5. Place a copy of the operating and maintenance manuals in a clear pouch, container or storage compartment on the lift.
6. Have all employee operators of the lift review the operating manual, fill out and sign the form entitled "Operating Manual Acknowledgment Form" (see Appendix A of this policy) and return it to his/her supervisor for documentation.
7. Provide Environmental Safety with copies of all signed forms including the model and serial numbers of all equipment purchased.

i. Maintenance, Inspection and Repair

1. Maintenance: The department responsible for each aerial work platform lift shall arrange for maintenance that is appropriate for their lift. The department shall establish a preventive maintenance program based on the manufacturer's recommendations, the environment it is to be used in and the frequency which it will be used.
2. Inspection: The department shall ensure that pre-start inspections, inactivity inspections and annual inspections are being performed on the lift (see Section 5 of this policy).
3. Repair: When safety-related deficiencies have been discovered, the lift shall be placed out of service until repaired. All replacement parts or components that are replaced shall be identical to or equivalent to the original parts based on information provided by the manufacturer or supplier.

ii. Training

The department is responsible for arranging for the training of all authorized users of the lift and notifying the Environmental Safety Department in writing upon completion. No personnel shall operate or ride on an aerial work platform lift if they have not been trained. (See Section 4 of this policy). The department shall ensure that aerial work platform lift maintenance is performed only by personnel who are trained in aerial lift maintenance.

iii. Selling, donating lifts

Prior to the donation or sale of an aerial work platform lift the donating or selling department shall contact Environmental Safety to ensure that appropriate steps are taken before transfer of ownership.

iv. Responsibilities Involving Contractors

Departments are responsible for conveying certain information to outside contractors who receive permission to use university-owned aerial work platform lifts. The following criteria shall be met when contractors borrow lifts:

1. The University will not provide training for use of the lift to outside contractors.
2. The University has operating instructions for the lift available for review.
3. The contractor must warrant that the contractor has sufficient training, knowledge and experience to operate the lift safely.
4. The contractor must complete and sign the *SU Hydraulic Lift Use Waiver and Indemnification Agreement* before use of the lift will be granted.

v. Records Retention

Each department shall date and retain the following records for each aerial work platform lift that they own:

1. Serial number and date of purchase (this shall be kept for as long as the department owns the lift).
2. Written records of the inactivity and annual inspections and repairs performed. This shall include deficiencies found, corrective actions taken and the identification of the person(s) who performed the inspection and repairs.
3. Written records of repairs made on the lift.
4. Training records for any employees trained in the maintenance of the aerial platform lift.

- Employee/User Responsibilities

Because the user has direct control over the application and operation of aerial work platform lifts, conformance with good safety practices in this area is the responsibility of the user and the operating personnel. Decisions on the use and operation of the lift shall be made with the understanding that the platform will be carrying personnel whose safety is dependent on those decisions. Users and operators of aerial work platform lifts have responsibilities involving the following:

- i. Manuals

Users of aerial work platform lifts must review and acknowledge that they have reviewed the operating manuals for all lifts that they use. Documentation of this shall be established by having the employee review and sign the form titled "Operating Manual Acknowledgement Form" (see Appendix A). The user is expected to know and understand the following about the lift he/she operates prior to initial operation of the lift:

1. The operation of the lift.
2. All control features of the lift.
3. All placard warnings.
4. All safety devices on the lift.
5. Where to locate the user manual.
6. Who can operate or use the platform lift.

If the user does not understand any of the above he/she shall consult with his/her supervisor prior to using the lift.

- ii. Inspection and Maintenance

Users shall inspect and maintain the aerial work platform lift as required by their department to ensure proper operation. Note that some employees may be approved by their department to operate but not to perform maintenance on the lifts. However, all users shall perform pre-start inspections (see Section 5 of this policy) on the lift prior to each daily use of the lift. Documentation of the pre-start inspections shall be done by completing an "Aerial Work Platform Lift Pre-Start Inspection Form" (see Appendix C for the form). Aerial work platform lifts that are not in proper operating condition shall be immediately removed from service, tagged

with appropriate warning signage, and reported to the appropriate departmental supervisor. Only employees who are authorized by their department may perform maintenance duties on the lifts.

iii. Workplace Inspections

Prior to setting up the lift at each new location the user shall conduct a workplace inspection to identify potential hazards. See “Inspections”, Section 5 of this policy.

iv. Training

Only trained employees may operate or use aerial work platform lifts (see “Training Program” in Section IV. of this policy). Likewise, only trained and authorized employees may perform maintenance duties on the lifts.

4. Training Program

All operators and users of aerial work platform lifts shall attend an aerial lift training session for the equipment they will operate. The contents of the training will include the following:

- 4.1. Purpose and use of manuals.
 - 4.1.1. Pre-start inspection process.
 - 4.1.2. Identification of malfunctions and problems.
 - 4.1.3. Factors affecting stability.
 - 4.1.4. Purpose of placards and decals.
 - 4.1.5. Workplace inspections.
 - 4.1.6. Safety rules and regulations.
 - 4.1.7. Authorization to operate.
 - 4.1.8. Operator warnings and instructions.
 - 4.1.9. Operation of the aerial platform.
 - 4.1.10. Demonstrate competency.

5. Inspections

The inspection process is a critical step in preventing aerial lift accidents that are caused from faulty or worn out equipment. Aerial work platform lifts that are

not in proper operating condition shall be removed from service until the problems have been corrected by an authorized and trained maintenance technician.

- Pre-Start Inspections

Before each day's use or at the beginning of each shift that the aerial work platform lift is used, it shall be given a pre-start inspection which is a visual inspection and functional test that includes the following criteria:

- i. Operating and emergency controls.
- ii. Safety devices.
- iii. Personal protective devices.
- iv. Air, hydraulic and fuel system leaks.
- v. Cables and wiring harness.
- vi. Loose or missing parts.
- vii. Tires and wheels.
- viii. Placards, warnings, control markings and operating manual(s).
- ix. Outriggers, stabilizers and other structures.
- x. Guardrail system.
- xi. Other items specified by manufacturer.

- Inactivity Inspections

Any time an aerial work platform lift has not been used for a period of 3 months or more (or after the lift has been purchased) an inactivity inspection shall be performed by a qualified person and shall include the following:

- i. All functions and their controls for speed(s), smoothness, and limits of motion.
- ii. Lower controls, including the provisions for overriding of upper controls.
- iii. All chain and cable mechanisms for adjustment wear or damaged parts.

- iv. All emergency and safety devices.
- v. Lubrication of all moving parts, inspection of filter element(s), hydraulic oil, engine oil, and coolant as specified by the manufacturer.
- vi. Visual inspection of structural components and other critical components such as fasteners, pins, shafts and locking devices.
- vii. Placard, warnings and control markings.
- viii. Additional items specified by the manufacturer.

- Annual Inspections

An annual inspection shall be performed on each aerial work platform lift each year. The inspection shall be performed by a qualified mechanic who is authorized to perform maintenance duties on the lift. The inspection shall include all items specified by the manufacturer for an annual inspection.

- Workplace Inspections

Before an aerial work platform lift is used and during its use, the operator shall check the area in which the aerial platform lift is to be used for possible hazards such as, but not limited to:

- i. Drop-offs or holes.
- ii. Slopes.
- iii. Bumps and floor obstructions.
- iv. Debris.
- v. Overhead obstructions and high voltage conductors.
- vi. Hazardous locations and atmospheres.
- vii. Inadequate surface and support to withstand all load forces imposed by the aerial work platform lift.
- viii. Wind and weather conditions.
- ix. Presence of unauthorized people.
- x. Other possible unsafe conditions.

6. Standard Operating Procedures

To ensure safe practices, the following general procedure is used when an authorized user uses an aerial work platform lift:

- Obtain any necessary authorization to use the lift.
- Check the last pre-start inspection for any comments or notes.
- Perform a pre-start inspection on the lift, document the inspection and place it in the reserved storage location on the lift.
- Perform a workplace inspection in the area that the lift will be used.
- Extend and adjust the outriggers, stabilizers, extendible axles, or other stability enhancing means.
- Ensure that the guardrails are installed and are in place.
- Ensure that the load being placed on the lift is within the rated lift capacity
- When operating articulating, or boom type lifts that are equipped with lanyard tie off points, the use of fall protection equipment is required. If special circumstances exist that encourage the operator to use fall protection on vertical aerial platform lifts, they must tie off to a proper tie off point that is not attached to or part of the aerial work platform lift itself.
- Test the controls of the lift.
- Ensure that all personnel on the lift have been trained and authorized to operate or work on the platform.

7. Platform Qualifications

- Specifications for platforms

The following criteria shall be met to be an approved platform on a lift:

- i. Platform width shall be not less than 18 inches and shall have a slip resistant surface.
- ii. The platform shall have a guardrail system around its periphery. It is removable or can be lowered. The means used to secure it in the normal operating position shall be readily accessible for inspection and maintenance.
- iii. The guardrail system shall include a top rail that is between 39 and 45 inches high, a mid-rail that is approximately half-

way from the platform to the top rail, and a toe board that is at least 4 inches high.

8. Markings and Decals

In addition to any other markings or decals that are placed on the lift by the manufacturer, the following information shall be displayed on all aerial work platform lifts in a clearly visible, accessible area and in a durable manner:

8.1. The make, model, serial number, and manufacturer's name and address.

8.2. The rated workload, including rated number of occupants.

8.3. The maximum platform height.

Appendix A

Operating Manual Acknowledgement Form

By signing this document I am certifying that I have received a copy of the operations manual for the aerial work platform lift shown below. Upon training and authorization by my department, I am expected to safely operate this lift. I understand that it is my responsibility to review and understand the safe operation of this aerial work platform lift based on the training I receive and the manufacturer's recommendations. I understand that if, at any time, I have any questions regarding the information found in the user's manual I can contact Environmental Safety, my supervisor or the manufacturer to obtain my answers.

Aerial Lift Make _____

Aerial Lift Model _____

Name (print) _____

Department _____

User/Operator's name (sign) _____ Date _____

Appendix B

SU HYDRAULIC LIFT USE WAIVER AND INDEMNIFICATION AGREEMENT

I, _____, being of legal age, am employed by _____ who is doing business with the Salisbury University, du Lac, ("the University"). The University owns certain hydraulic personnel lifts ("the Lift") which I desire to use. I understand and acknowledge that I am not required to use the Lift and that my use of the Lift is wholly voluntary. I acknowledge that the University will not provide training for use of the Lift, that the University has available operating instructions for the Lift I wish to use, and warrant that I have sufficient training, knowledge and experience to operate it safely.

In consideration of the University's agreement to permit me to use the Lift, the receipt and sufficiency of which consideration is hereby acknowledged, I agree as follows:

1). I, individually, and on behalf of my heirs, successors, assigns and personal representatives, hereby release acquit and forever discharge the University and its employees, agents, servants, officers, trustees and representatives (in their office and individual capacities) from any and all liability whatsoever for any and all damages, losses or injuries (including death) to persons or property or both, including but not limited to any claims, demands, actions, causes of action, damages, costs, expenses and/or attorneys' fees, which arise out of, occur during, or result from my use of the Lift on University property.

2). I, individually, and on behalf of my heirs, successors, assigns and personal representatives, hereby agree to indemnify, defend and hold harmless the University and its employees, agents, servants, officers, trustees and representatives (in their official and individual capacities) from any and all liability, loss or damage that they or any of them incur or sustain as a result of any claims, demands, actions, causes of action, judgments, costs or expenses, including attorneys' fees, which arise out of, occur during, or result from my use of the Lift on University property.

3). I agree that this Waiver, release and Indemnification Agreement is to be construed under the laws of the State of Maryland, that it is intended to be as broad and inclusive as permitted by the laws of the State of Maryland, and that if any portion hereof is held invalid, the balance hereof shall, notwithstanding, continue in full legal force and effect.

4). I hereby acknowledge and accept that there are certain risks, including bodily injury and death, inherent in operating the Lift. I acknowledge that I have read the operating instructions for use of the Lift and I understand how to operate the same. I have knowingly and voluntarily decided to assume the risk of these inherent dangers in consideration of the University's permission to allow me to use the Lift on University property.

5). I hereby warrant that I am currently covered by my employer's policy of worker's compensation insurance and that I am and will be acting in the scope of my employment and for my employer's sole benefit in operation the Lift at all times.

6). In signing this Waiver and Release I hereby acknowledge and represent that I have read this entire document, that I understand its terms and provisions, that by signing it I am giving up substantial legal rights I might otherwise have, that it is a binding agreement, and that I have signed it knowingly and voluntarily.

Name (Printed) _____

Signature

Date

Appendix C

Aerial Work Platform Lift Pre-Start Inspection Form

The pre-start inspection shall be performed prior to each day's or shift's use of the aerial work platform lift by an authorized and trained user of the lift. Documentation of the inspection shall be maintained by each department, with a copy of the most recent inspection document stored on the lift.

Check off the items that have been inspected or mark the N/A box if the item does not apply to the lift being inspected. Place any comments in the space provided below. If there are any of these items that are not satisfactory place the lift out of service until the item is corrected.

Department lift belongs to: _____

Make of lift: _____ Model of lift: _____ Serial #: _____

Inspector's Name _____ Date of Inspection _____

<u>Item Inspected</u>	<u>Okay</u>	<u>Not Okay</u>	<u>N/A</u>
Operating controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personal protective devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pneumatic system (leaks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system (leaks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel system (leaks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cables	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wiring harness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loose/missing parts (locking pins/bolts)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tires and wheels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Placards and Warnings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operational Manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outriggers/Stabilizers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guardrail system and locking gate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

Inspector's Signature _____ Date _____