POLICY

Hawk Energy, LLC has adopted this program for employee safety on or around "Vehicle Mounted Elevating and Rotating Work Platforms" also known as Elevating Work Platforms (EWP).

REFERENCES

- §1910.67 Vehicle-Mounted Elevating and Rotating Work Platforms
- §1926.453 Aerial Lifts
- §1926.952 Aerial Devices Working Near Energized Lines or Equipment

RESPONSIBILITIES

Hawk Energy, LLC has implemented and enforces these work practices and procedures to assure that no employee will be exposed to hazards during aerial lifting operations.

David Slim is designated by Hawk Energy, LLC as the Competent Person in authority over all aerial device work procedures. David Slim will ensure that all safety measures and systems are in place and correctly installed, all safety procedures are adhered to, and ensure regular inspections of the operational site and aerial equipment are made. Only authorized personnel are permitted to operate an aerial lift.

Responsibilities During Elevating Work Platform Operations

Because elevating work platforms are often rented from an equipment supplier, there is confusion as to the responsibilities of the parties involved.

The owner or supplier must ensure that the machine:

- Is maintained in good operating condition
- Conforms to appropriate regulations and standards
- Includes the operator's manual and correct load rating charts

Hawk Energy, LLC and supervisors on the project must:

- Ensure that the operator is trained and competent to operate his equipment
- Ensure that the machine has the correct load rating capacity for the job
- Maintain the equipment and all its protective devices
- Maintain a daily inspection log for each platform
- Ensure that workers use appropriate personal protective equipment
- Keep the manufacturer's operating manual with the equipment
- Train workers on each type of equipment that they will be using
- Use watchmen or cones to direct traffic (away from the equipment when in use)

The operators and workers using the equipment must:

- Receive adequate training to be fully competent
- Only operate the machine when competent
- Operate the machine in a safe manner as prescribed by the manufacturer and according to Company safety and health policies
- Inspect the equipment each day or each shift before use
- Perform function tests before use
- Report any defects to the supervisor
- Read, understand, and obey the manufacturer's safety rules, including the operating manual
 and warning decals. When a defect is reported to the supervisor, the equipment must be taken
 out of service until the repairs are completed and the equipment is inspected and approved for
 use

TRAINING

David Slim will verify that all employees are trained in and familiar with required work practices and procedures in the use of any equipment required, proper Personal Protective Equipment (PPE), and safety procedures which must be followed to safeguard personnel involved in aerial lifting operations or who work in the vicinity of aerial lifting operations.

DEFINITIONS

Aerial Device or Aerial Work Platform – means any vehicle-mounted device, telescoping or articulating or both, that is designed and manufactured to raise personnel to an elevated work position on a platform supported by scissors, masts, or booms.

Aerial Ladder – means an aerial device that consists of a single- or multiple-section rung ladder.

Articulating Boom Platform – means an aerial device that has two or more hinged boom sections.

Authorized Person – means a person who is approved and assigned to perform specific types of duties by the employer and who is qualified to perform those duties because of his or her training or experience.

Boom – An elevating member, the lower end of which is so attached to a rotating or non-rotating base that permits elevation of the free or outer end in vertical plane.

Commercial Chassis – means a vehicle that is built for over-the-road (roadway) travel.

Elevating Work Platform – A device designed to elevate a platform in a substantially vertical axis (Vertical Tower, Scissor Lift).

Insulated Aerial Device – means an aerial work platform that is designed with dielectric components to meet specific electrical insulating ratings for work on or near energized lines and apparatus.

Platform – means the portion of an aerial work platform, such as a bucket, basket, stand, cage, or the equivalent, that is designed to be occupied by personnel and is a component of an aerial device.

Qualified Person – means a person who possesses a recognized degree, certificate, professional standing, or skill and who, by knowledge, training, and experience, has demonstrated the ability to deal with problems relating to the subject matter, the work, or the project.

Qualified Line Clearance Tree Trimmer – means an employee trained to work in proximity of energized power transmission and distribution lines. An employee in a training program is included in this definition.

SAFE PRACTICES

- Aerial lifts must be designed and constructed in conformance with the applicable requirements
 of the American National Standards for "Vehicle Mounted Elevating and Rotating Work
 Platforms", ANSI A92.2.
- Each work platform will be inspected, maintained, repaired, and kept in proper working order in accordance with the manufacturer's maintenance and repair manuals

On a daily basis, before the work platform is used, it must be given a thorough inspection, which will include:

- Inspection for defects such as cracked welds, hydraulic leaks, damaged control cable, loose wire connections, and tire damage
- Inspection of functional controls for proper operation
- Lift controls will be tested each day prior to use to determine that such controls are in safe working condition
- Tests will be made at the beginning of each shift during which the equipment is to be used to determine that the brakes and operating systems are in proper working condition
- Critical safety components of mechanical elevating and rotating equipment whose failure would result in a free fall or free rotation of the boom will receive a thorough visual inspection before use on each shift
- Vehicles will have a reverse signal alarm audible above the surrounding noise level or the vehicle will be backed up only when an observer signals that it is safe to do so
- For power lines rated 50 kV. or below, minimum clearance between the lines and any part of the crane or load will be 10 feet
- Any suspect items discovered through inspection must be carefully examined and a
 determination made by a qualified service person as to whether they constitute a safety hazard.
 All unsafe items must be corrected before further use of the work platform
- Any work platform not in safe operating condition will be removed from service until it is repaired. All repairs will be made by a qualified service person in conformance with the manufacturer's operating, maintenance, and repair manuals

- Aerial lifts may be "field modified" for uses other than those intended by the manufacturer provided the modification has been certified in writing by the manufacturer or by any equivalent entity
- Manufacturer's boom, basket, and platform load limits will not be exceeded
- Each work platform will be equipped with a mechanical parking brake, which will hold the unit on any slope it is capable of climbing. When possible, wheel chocks will be installed before using an aerial lift on an incline
- Employees will always stand firmly on the floor of the basket and will not sit or climb on the edge of the basket or use planks, ladders, or other devices for a work position.
- Approved fall protection will be worn, and a lanyard attached to the boom or basket when working from an aerial lift.
- No aerial vehicular equipment having an obstructed view to the rear may be operated on off-highway jobsites where any employee is exposed to the hazards created by the moving the vehicle, unless the vehicle has a reverse signal alarm audible above the surrounding noise level or the vehicle is backed up only when a designated employee signals that it is safe to do so
- Aerial vehicular equipment provided with outriggers will be operated with the outriggers
 extended and firmly set as necessary for the stability of the specific configuration of the
 equipment. Outriggers may not be extended or retracted outside of clear view of the operator
 unless all employees are outside the range of possible equipment motion
- When the work area or the terrain prevents the use of outriggers, the equipment may be operated only within its maximum load ratings for the particular configuration of the equipment without outriggers
- Mechanical elevating and rotating equipment used to lift or move material will be used within its maximum load rating and other design limitations for the conditions under which the work is being performed
- A designated employee other than the equipment operator will observe the approach distance to exposed lines and equipment and give timely warnings before the minimum approach distance is reached

The following clearances will be maintained when operating aerial work platforms or other equipment under, over, by, or near energized electric power lines:

Before using the work platform, the operator will:

- Read and understand the manufacturer's operating instructions and safety rules, and be trained on them by a qualified person
- Read and understand all decals, warnings, and instructions on the work platform
- Before the work platform is used, the operator will survey the area for hazards such as: untapped earth fills; ditches; drop-offs or holes; bumps and floor obstructions; debris; overhead obstructions and high voltage conductors; other possible hazardous conditions

Before each elevation of the work platform, the operator will:

- Check for overhead obstructions and high-voltage conductors. A minimum distance of ten feet from energized high-voltage conductors must be maintained at all times between the conductors and the operator and platform equipment
- Ensure that the load and its distribution on the platform are in accordance with the manufacturer's rated capacity. The manufacturer's recommended load limits must never be exceeded
- Ensure outriggers and stabilizers are used according to manufacturer's instructions
- Ensure that guardrails are properly installed, and gates are closed

Before and during driving while the platform is elevated, the operator will:

- Be required to look in the direction of, and keep a clear view of, the path of travel and assure that the path of travel is firm and level
- Maintain a safe distance from obstacles, debris, drop-offs, holes, depressions, ramps, or other hazards to safe elevated travel
- Maintain a safe distance from overhead obstacles
- The operator will limit travel speed according to conditions. Conditions to be observed are Ground surface, congestion, slope, location of personnel, and other factors that may create a hazard of collision or injury to personnel
- Personnel will maintain a firm footing on the platform while working thereon unless they are secured by safety harness and lanyard devices fixed to manufacturer-approved anchor points. Use of railings or planks, ladders, or any other device on the work platform for achieving additional height is prohibited
- The operator will immediately report defects or malfunctions which become evident during operation and must stop use of the work platform until correction has been made
- Altering or disabling of safety devices or interlocks is prohibited
- Stunt driving and horseplay is prohibited
 - An aerial device that does not meet the requirements will not be used unless it has been inspected and modified as required to conform to the essential stability, structural, electrical insulation, and operational requirements of ANSI A92.2

Each aerial device placed in service will have a conspicuously displayed legible plate or other legible marking verifying the aerial device is designed and manufactured in accordance with the following applicable specifications:

- ANSI Standard A92.2, "Vehicle-Mounted Elevating Work Platforms", which applies to vehicle-mounted devices installed on commercial chassis and covers the following type of units:
- Extensible boom aerial devices
- Aerial ladders
- Articulating boom aerial devices
- Vertical towers
- A combination of any of the equipment specified

- ANSI Standard A92.3, "Manually Propelled Elevating Work Platforms", which applies to work
 platforms which are manually propelled, which are vertically adjustable by manual or powered
 means, and which may be towed or manually moved horizontally on wheels or casters that are
 an integral part of the work platform base
- ANSI Standard A92.5, "Boom-Supported Elevating Work Platforms", which applies to all
 integral frame, boom-supported elevating work platforms which telescope, articulate, rotate, or
 extend beyond the base dimensions
- ANSI Standard A92.6, "Self-Propelled Elevating Work Platforms", which applies to selfpropelled vertically adjustable integral chassis work platforms. Such work platforms are power operated with primary controls for all movement operated from the platform

The following information will be displayed on all work platforms in a clearly visible, accessible area and in as permanent a manner as possible:

- Warnings, cautions, or restrictions for safe operation in accordance with ANSI requirements
- The rated workload will be clearly displayed at each entrance to the platform

VEHICLE MOUNTED ELEVATING & ROTATING WORK PLATFORMS

There are two basic types of elevating work platforms – boom and scissor. Both types come in:

- "On-Slab" models for use on smooth hard surfaces such as concrete or pavement.
- Rough-Terrain models used on firm level surfaces: graded and compacted soil or gravel.

Both types share three major components: base, lifting mechanism, and platform assembly.

SCISSOR-TYPE MACHINES

These are raised and lowered by hydraulic pistons and an expanding scissor mechanism. Platforms are available in various configurations with different capabilities for extension and movement. Some have extendable platforms or platforms that can rotate. Extendable platforms will be retracted before raising or lowering the device.

On-Slab Units

- Not designed for uneven or sloping ground
- Normally have solid rubber tires
- Generally powered by rechargeable DC battery
- Some are powered by internal combustion engine, either gasoline or propane
- Most have "pothole protection" a metal plate lowered close to the ground to afford some protection against inadvertent movement into depressions or debris

Rough-Terrain Units

- Similar in design to on-slab machines
- Built to handle rigorous off-slab challenges
- Normally have wider wheelbases, larger wheels, and pneumatic tires
- Some fitted with outriggers for extra stability
- Usually powered by internal combustion engines: gasoline, diesel, or propane
- DC Battery powered units are also available, but are not common
- Lifting mechanism is hydraulic

Scissor-lifts range in capacity from 500 to several thousand pounds. They are available with platform heights often reaching 50 feet or more. Scissor-lifts must be set up on stable, level ground, even with outriggers deployed. A slight imbalance or instability is amplified when the machine is raised.

Although fixed to the platform, the controls are moveable from one side of the platform to the other. This enables the operator to see the path of travel. The controls must be oriented correctly so that the operator does not inadvertently move the machine in the wrong direction. Many machines have color-coded directional arrows on the chassis to aid the operator in moving the machine.

SELF-PROPELLED BOOM-SUPPORTED PLATFORMS

- Normally fitted with rough-terrain undercarriages
- Some smaller on-slab units
- Platforms have lifting capacity of about 500 pounds or two workers
- Lack capacity of scissor-type machines; not intended for lifting materials
- Usually powered by an internal combustion engine: gasoline, diesel, or propane

Booms

- Telescopic, articulating, or combination of both
- Raised and extended by hydraulic cylinders
- Can reach up to 150 feet
- Can extend well beyond the wheelbase

As with mobile cranes, stability decreases with length of boom and boom angle as the center of gravity moves in relation to the platform position. The machine will overturn if the center of gravity moves outside the machine's base.

Machines come with load charts that show safe operating configurations. Machines with booms long enough to cause overturning at low boom angles are required to have radius-limiting interlocks to prevent operation in unstable configurations. The reach chart indicates the safe operating configurations for a machine operating on a level surface. The reach diagram shows the safe operating envelope. The machine does not achieve its maximum height directly overhead, nor does it achieve its maximum reach at ground level.

Users must be familiar with the operating range of the individual make and model of the equipment they are using. This knowledge is essential in order to position the machine correctly and reach the work location safely.

NON-SELF-PROPELLED OR PUSH-AROUNDS

These units are not self-propelled and must be transported from one location to another with an independent power source or manually in the case of the smaller devices. The machines are intended primarily for use on smooth, level, hard surfaces or on-slab conditions. Some trailer-mounted units are available. Some can fold up to pass through a standard door and can be transported by pick-up truck. As a result, they are suitable for maintenance or renovation work.

PUSH-AROUNDS

- Raising mechanism normally powered by gasoline, propane or electric motors
- Normally raised and lowered by hydraulic cylinders
- Platform capacities vary from 300 to 1000 pounds or more
- Devices with capacity less than 500 pounds are Not Recommended for construction this type is better suited to maintenance activities
- Platforms usually do not exceed 36 feet in height
- As platform is raised, risk of overturning increases
- Extra care required when operating at maximum height

EQUIPMENT SELECTION

Elevating work platforms are designed for different uses. It is essential to select the appropriate equipment for the job.

Typical Mistakes

- Using an on-slab machine on rough terrain
- Using a unit undersized with respect to height, reach, and lifting capacity
- Lifting large materials that overhang the platform
- Using a scissor lift where the reach of a boom-type machine is needed
- Extending the platform with planks, ladders, or other devices because the machine cannot reach the required height

Factors to Consider

- Capacity Does the machine have the lifting capacity, the reach, and the height to complete the task?
- Surface Conditions Are the surface conditions hard or soft, sloped or level? Will the ground have an effect on the type of machine selected?
- Platform Size and Configuration Do you need a regular or extendable platform? Is rotation required? Are there space restrictions to consider?
- Mobility Is a boom type better suited than a scissor lift to the task?

- Material to be Lifted Will the machine be able to lift the size and weight of material required for the job?
- Access Will the machine be able to travel around the workplace safely? Are there
 obstructions or depressions that will restrict the use of certain machines?
- Operator Skill or Training Are the people on site competent to operate the machine? If a propane-powered engine is used, has the operator received propane training?
- Work Environment If the work is to be done indoors, or in a poorly ventilated area, will an electrically powered machine be required?

FUNDAMENTAL ELEVATING WORK PLATFORM HAZARDS

- Machine Tipping or Overturning Many factors cause instability sudden stops, depressions, drop-offs, overreaching, overloading, etc. Overturning and tipping result in many fatalities and injuries
- Overriding Safety Features Disarming features such as the tilt or level warning and the dead man switch can prevent operators from knowing they are in danger
- Overhead Power line Contact Contacting overhead wires can cause electrocution
- Falls from Elevated Platforms Many falls occur because workers get in a hurry and fail to observe standard fall protection procedures. Many such falls cause serious injury or even fatalities
- Makeshift Extensions When the machine cannot reach the working height desired, do not compensate by using scaffold planks, ladders, blocks of wood, or other makeshift arrangements. Such practices lead to falls and machine instability
- Overloading the Platform Elevating work platforms overloaded or loaded unevenly can become unstable and fail. Boom-type machines are especially sensitive to overloading. Always stay within the operating range specified by the manufacturer
- Failure to Cordon Off –
- Elevating work platforms have been struck by other construction equipment or oncoming traffic when the work area is not properly marked or cordoned off
- Workers have been injured when they inadvertently entered an unmarked area and were struck by falling material, tools, or debris
- In unmarked areas, workers have also been injured by swinging booms and pinched by scissor mechanisms
- Accidental Contact Many elevating work platforms have blind spots. Moving the machine or
 platform may cause contact with workers or with obstacles. Use a designated signaler on the
 ground to guide the operator when the path of travel is not clear, or access is tight
- Improper Maintenance or Modifications Elevating work platforms will be maintained by competent workers in accordance with manufacturer's instructions. No modifications will be made to the machine without the manufacturer's approval
- Improper Blocking During Maintenance Failing to block, or improperly blocking the machine, boom, or platform can cause serious crushing injuries and property damage.

- Improper Access Do not enter or leave the platform by climbing the scissors or the boom. Do
 not use extension ladders to gain access. Ladders exert lateral loads on the platform that can
 cause overturning. For the safest access, lower the machine completely
- Moving with the Platform Raised Lower the platform before moving the machine unless: The
 machine is designed to move with the platform raised, or the supporting surface is smooth and
 level. Slight dips and drops are amplified when the platform is raised and can cause the
 machine to overturn
- Improper Refueling Take care when refueling. Gasoline, for instance, will be kept in approved containers and dispensed to prevent spills and sparking
- Pinch Points Clothing, fingers, and hands can get caught in scissor mechanisms. As
 platforms are raised, machines may sway. Workers can be pinched between guardrails and the
 structure. Position the platform so that work takes place above guardrail height

STABILITY AND TIPPING

- In general, elevating work platforms are well manufactured and are safe to use within their specific limitations. However, as with any equipment or tool, there are dos and don'ts to follow.
- One of the most dangerous hazards in operating elevating work platforms is tipping over. This
 can be caused by one or more of the following factors:
- Sudden movement of the unit or parts of the unit when elevated
- Making sudden stops while in motion with platform elevated
- Uneven or overloading of the platform
- Traveling or operating on a slope or uneven terrain
- Changing the weight distribution of the machine by replacing parts with others of a different weight or adding attachments not approved by the manufacturer
- Holes or drop-offs in the floor surface causing one wheel to drop suddenly
- Operating the equipment in windy conditions (refer to the operator's manual for safe operating conditions)

It is important that users understand what makes a platform stable and what causes it to overturn. To understand stability, one must understand the concept of center of gravity, tipping axis (or tipping point), and forces that shift the center of gravity.

Stability is resistance against tipping over. Stability depends on the location of the center of gravity in relation to the tipping axis.

CENTER OF GRAVITY

Every object has a center of gravity. It is the point where the object's weight would be evenly distributed or balanced. If a support were placed under that point, the object would be perfectly balanced.

The center of gravity is usually located where the mass is mostly concentrated. However, the location does not always remain the same.

Any action that changes the machine's configuration – such as raising the platform, extending the boom, or traveling on a slope – can change the location of the center of gravity.

Tipping Axis and Area of Stability

When an EWP turns over, it tips around an axis or point. This is called the tipping axis or tipping point. EWPs typically have four tipping axes – front, back, left, and right.

Each EWP has its own area of stability. This varies from platform to platform and from model to model. In most cases, the area of stability is bound by the four tipping axes (or the four tires or outriggers). The platform is stable as long as the center of gravity remains inside the area of stability. This is the key to safe operation.

When the center of gravity shifts beyond the area of stability, the machine will tip over. Some factors that can cause a shift beyond the stability area are overloading, moving on excessively sloped ground, a sudden drop of one wheel, and shock loading.

Raising the platform also raises the EWP's center of gravity. When a scissor lift is situated on a slope, and the platform is raised, the platform's center of gravity will move toward the tipping axis. If the center of gravity moves beyond the tipping axis, the platform will overturn.

Boom-supported aerial devices work in the same way. When the boom is extended outward, the center of gravity moves outwards towards the tipping axis. The aerial device will overturn if the boom is extended such that the center of gravity moves beyond the axis. Boom-type machines have an interlocking system that prevents the machine from moving into an unstable configuration.

FACTORS AFFECTING STABILITY

Dynamic Forces

Dynamic forces are forces generated by movement or change of movement. For example, applying the brakes suddenly or traveling too fast around corners can cause instability – as in a car or van. Sudden stops while raising or lowering the platform can also cause instability.

Traveling

Traveling the platform over rough or uneven ground can also cause instability. Lower the platform fully or retract telescoping sections while traveling, particularly on uneven surfaces.

EQUIPMENT INSPECTION

All components that bear directly on the safe operation of the EWP and can change from day to day must be inspected daily. Inspection is mostly visual – done in a quick but thorough manner.

Check the operator's manual for a complete list of pre-operational checks. See the end of this section for Daily Inspection Checklists for Elevating Work Platforms and Aerial Devices.

MINIMUM REQUIREMENTS

Before climbing onto the platform, check:

- Tires for proper pressure and wheels for loose or missing lug nuts
- Steer cylinder, linkage, and tie rods for loose or missing parts, damage, & leaks
- Hydraulic oil for leaks and fluid level. Hydraulic hoses, lift cylinder(s), and connections for leaks or loose connections
- Fuel supply adequate fuel, filler cap in place, no damage, leaks, or spills
- Battery for fluid level and state of charge
- Proper connection of all quick-disconnect hoses
- Structural components for damage, broken parts, cracks in welds, including scissor arms, outrigger arms, and pads
- Ladder or steps for damage and debris (ladder must be firmly secured to the platform and relatively free of grease, mud, and dirt)
- Beacon and warning lights for missing and defective lenses or caps
- Ground controls (manual and powered) including emergency stop switch and platform lower/lift switch for proper function and damaged and missing control sticks/switches
- Decals and warning signs to make sure they are clean, legible, and conspicuous

After mounting the platform, check:

- Platform assembly for missing or loose parts, missing or loose lock pins & bolts
- Platform floor for structural damage, holes, or cracked welds and any dirt, grease, or oil
- Operator's manual to make sure it is in place
- Extendable platform deck for ease of extension/retraction and proper function of locking position of platform
- Guardrails to make sure they are in place and secure
- Access gate for ease of movement, missing parts, latch, and locking capabilities
- All fall protection anchorage points
- All control mechanisms for broken or missing parts
- All emergency controls for proper function stopping, descending, master OFF switch
- All safety devices such as tilt and motion alarms for malfunction
- Swivels for freedom of rotation
- Scissors for smooth movement up and down
- Brakes for stopping capabilities
- Horn for proper function

MANUALS, SIGNS, AND DECALS

Signs clearly visible to the operator at the controls must indicate:

- The equipment's rated working load
- All limiting operating conditions, including the use of outriggers, stabilizers, and extendable axles
- The specific firm, level surface conditions required for use in elevated position
- Such warnings as may be specified by the manufacturer
- Other than for a boom-type elevating work platform, the direction of machine movement for each operating control
- The name/number of the ANSI standard to which the platform was designed
- The name and address of the owner

In addition to the above, ANSI standards require the following signs:

- The make, model, serial number, and manufacturer's name and address
- The maximum platform height
- The maximum travel height, if not equal to the maximum platform height
- The nominal voltage rating of the batteries if battery-powered
- A warning to study the operating manual before using the equipment
- A statement as to whether or not the platform is insulated
- A notice outlining the required inspections
- The capacity in each configuration
- Diagrams/description of various configurations in which the platform can be used
- Warnings against replacing, without the manufacturer's consent, components critical to the machine's stability – for example, batteries or ballasted tires with lighter weight components (the minimum weights of such components must be specified)

Many of these signs are vital to the operation of the machine and the protection of workers. All signs and decals must be kept clear of dust and grease so they can be easily read. Torn or damaged signs must be replaced.

Standards require the manufacturer provide a manual that contains:

- Description, specifications, and capacities of the platform
- The operating pressure of the hydraulic or pneumatic system that is part of the work platform
- Instructions regarding operation and maintenance, including recommended daily, weekly, and monthly inspection checklists
- Information on replacement parts
- The manual must be stored on the equipment in a weatherproof storage container

SAFE PRACTICES

Operators must be familiar with the requirements for the specific machine they will use:

- The manufacturer's operating manual
- The manufacturer's warning and caution signs on the machine
- The location of all emergency controls and emergency procedures
- The daily maintenance checks to perform

General Safety Guidelines for EWPs and Aerial Devices

- Always check for overhead power lines before moving the machine or operating the platform.
 The limits of approach from overhead power lines must be observed. If work must be done
 within these limits, decide with the owner of the utility to have the power line de-energized.
 Allow for movement or sway of the lines as well as the platform. Be aware of overhanging tools
 or equipment
- Wear a full body harness and tie off to a designated tie-off point while the machine is moving
- Do not leave the machine unattended without locking it or otherwise preventing unauthorized use
- Do not load the platform above its Rated Working Load (RWL). Wherever possible, keep the load below 2/3 of the RWL
- Make sure that all controls are clearly labeled with action and direction
- Keep guardrails in good condition and ensure that gate is securely closed before moving the platform. Do not remove guardrails while the platform is raised
- Shut off power and insert the required blocking before maintenance or servicing
- Deploy stabilizers or outriggers according to the manufacturer's instructions
- Position the boom in the direction of travel where possible
- Keep ground personnel away from the machine and out from under platform
- Do not access the platform by walking on the boom
- Do not try to push or move the machine by telescoping the boom
- Do not use the machine as a ground for welding
- Do not use a boom-supported platform as a crane
- Do not operate the equipment in windy conditions. For safe wind speeds, refer to the operator's manual
- Do not place the boom or platform against any structure to steady either the platform or the structure
- Secure loads and tools on the platform so that machine movement will not dislodge them
- Make sure that extension cords are long enough for the full platform height and will not be pinched or severed by the scissor mechanism
- Use three-point contact and proper climbing techniques when mounting or dismounting from the machine

Important Note: Never operate equipment on which you have not been trained or which you are not comfortable operating. Your safety and that of others on site depends on competent, knowledgeable operation of the equipment.

Work Area Inspection

Before operating elevating work platforms and aerial devices, check the work area for:

- Drop offs or holes in the ground
- Slopes, bumps or floor obstructions
- Debris
- Overhead obstructions
- Overhead wires power lines or other electrical conductors
- Hazardous atmospheres
- Adequate operating surface (ground or floor)
- Sufficient ground or floor support to withstand all forces imposed by the platform in every operating condition, wind and weather conditions

FALL PROTECTION

The fall protection required for persons who work on aerial lifts depends on the type of aerial lift used. The table below shows acceptable fall protection.				
Type of Lift	Fall Protection Required			
Vehicle-Mounted Elevating and Rotating Work Platforms (ANSI A92.2 devices)	Platforms other than buckets or baskets must include guardrail systems – guardrails, a mid-rail, and toe boards. Each person who works on a boom-supported platform must wear a body harness and lanyard attached to the boom or basket.			
Manually Propelled Elevating Aerial Platforms (ANSI A92.3 devices)	The platform must have a guardrail at least 42 inches ±3 inches above the floor, a mid-rail, and toe boards at least 4 inches high.			
Boom-Supported Elevating Work Platforms (ANSI A92.5 devices)	The platform must have a guardrail at least 42 inches ±3 inches above the floor, a mid-rail, and toe boards at least 4 inches high. Each worker on the platform must wear a body harness and lanyard attached to the boom or platform.			
Self-Propelled Elevating Work Platforms (ANSI A92.6 devices)	The platform must have a guardrail 42 inches ±3 inches above the floor, a mid-rail, and toe boards at least 4 inches high.			

Fall Protection for Elevating Work Platforms

- Personnel will maintain firm footing on the platform while working on the platform. The use of railings, planks, ladders, or any other devices on the platform for achieving additional height is prohibited
- A safety harness that has a lanyard which complies with construction safety standard "Fall Protection", and which is affixed to attachment points provided and approved by the manufacturer will be provided by Hawk Energy, LLC and used by any occupant of an aerial work platform described in this section. A fall arrest system will only be used where the aerial lift is designed to withstand the vertical and lateral loads caused by an arrested fall
- A body belt may be used with a restraint device with the lanyard and the anchor arranged so
 that the employee is not exposed to any fall distance. A restraint device is required where the
 aerial lift cannot withstand the vertical and lateral loads imposed by an arrested fall
- Belting off to an adjacent pole, structure, or equipment while working from an aerial work platform is prohibited
- An employer will not allow employees to exit an elevated aerial work platform, except where
 elevated work areas are inaccessible or hazardous to reach. Employees may exit the platform
 with the knowledge and consent of Hawk Energy, LLC. When employees exit to unguarded
 work areas, fall protection will be provided and used as required

Fall Protection for Aerial Devices

- Employees will always stand firmly on the floor of the basket, and will not sit or climb on the edge of the basket or use planks, ladders, or other devices for a work position
- Boom and basket load limits specified by the manufacturer will not be exceeded
- A safety belt or harness will be used with a lanyard attached to the boom or basket when
 working from an aerial lift. The safety belt, harness, and lanyard will be provided by Hawk
 Energy, LLC. An in-plant, industrial-type aerial device used on a level surface and equipped
 with a platform with approved railings is exempt from this rule
- Body belts are not acceptable as part of a personal fall arrest system. The use of a body belt in a tethering system or in a restraint system is acceptable
- A boom platform will be provided with a rail or other structure around its upper periphery that
 will be not less than 38 inches above the floor of the platform and with a toe board not less than
 4 inches high. A basket of a cherry picker will be considered to meet this requirement. A
 platform may have the guardrail removed from the working side if a safety belt and lanyard is
 worn by the employee on the platform
- Belting off to an adjacent pole, structure, or equipment while working from an aerial device will not be permitted
- Climbers will not be worn while on an aerial device unless gaff guards are provided

OSHA REGULATIONS AND RESPONSIBILITIES

OSHA regulations include the following requirements:

- Elevating work platforms must be engineered and tested to meet the relevant standard for that equipment
- Aerial devices must be checked each day before use by a trained worker
- The owner or supplier must keep a log of all inspections, tests, repairs, modifications, and maintenance
- The log must be kept up to date and include names and signatures of persons who performed inspections and other work
- Workers must be given oral and written instruction before using the platform for the first time. Instruction must include items to be checked daily before use

Vehicle Mounted Elevating and Rotating Work Platforms & Aerial Devices

This section provides for the safe operation and maintenance by Hawk Energy, LLC and the safe use by the employee of vehicle mounted elevating and rotating work platforms in, around, and about a place of employment. Firefighting equipment and powered industrial trucks are not included in these rules.

Employer Responsibility

An employer will provide each employee who will operate the aerial work platform with instruction and training regarding the equipment that will be used. Such instruction and training will ensure that each operator complies with the minimum following provisions:

- Is instructed by a qualified person in of the purpose and function of each control
- Is trained by a qualified person or reads and understands the manufacturer's operating instructions and safety rules
- Understands by reading or by having a qualified person explain, all decals, warnings, and instructions displayed on the aerial work platform
- Reads and understands the provisions of these rules or be trained by a qualified person on their content

The manufacturer's operating instructions and safety rules will be provided and maintained in a legible manner on each unit by Hawk Energy, LLC

Maintain an aerial device free of defects and hazards that could cause an injury.

Employee Responsibility

- Operate an aerial device only after being trained and authorized by Hawk Energy, LLC
- · Report known defects and hazards concerning an aerial device to the supervisor

EQUIPMENT INSTRUCTIONS AND MARKING

Each unit will have a manual containing instructions for maintenance and operations. If a unit can be operated in different configurations, then these will be clearly described, including the rated capacity in each configuration.

Each aerial device placed in service will have a conspicuously displayed legible plate or other legible marking verifying the aerial device is designed and manufactured in accordance with the following applicable specifications:

- ANSI A92.2 Vehicle Mounted Elevating and Rotating Aerial Devices
- ANSI A92.3 Manually Propelled Elevating Work Platforms
- ANSI A92.5 Boom Supported Elevating Work Platforms
- ANSI A92.6 Self-Propelled Elevating Work Platforms

The above plates will contain the following data, when applicable:

- Make, model, and manufacturer's serial number
- Rated capacity
- Maximum capacity at the maximum platform height
- Platform height
- Maximum travel height
- Maximum recommended operating pressure of hydraulic or pneumatic system(s) or both
- Caution or restrictions of operation or both
- Operating instructions
- Manufacturer's rated line voltage (dielectric capability)

Alternative configurations will require in addition to the above:

- Charts, schematics, or scales of capacities in operating positions
- Cautions, restrictions, of operation of all alternate or combinations
- Employees will be instructed in the proper use of the platform

All aerial devices and elevating work platforms will be assembled and erected in accordance with these rules and will be maintained in safe operating condition.

All electrical tests will conform to the requirements of the applicable the National Fire Protection Association NFPA 70 Standard or equivalent DC voltage test approved by the equipment manufacturer or equivalent entity.

FACTORS OF SAFETY IN DESIGN OF WORK PLATFORM ASSEMBLY

- Where the platform is supporting its rated workload by a system of wire ropes or lift chains, or both, the safety factor of the wire or chain will not be less than 6 to 1
- All critical components of a hydraulic or pneumatic system used in a work platform will have a
 bursting strength that exceeds the pressure attained when the system is subjected to the
 equivalent of four times the rated workload. Critical components are those in which a failure
 would result in a free fall or free rotation of the boom. All noncritical hydraulic components will
 have a bursting safety factor of at least 2 to 1
- Automatic safety devices or systems will be provided to prevent free fall of the work platform will a failure of the power supply or elevating system occur

CONSTRUCTION, MODIFICATION, REMOUNTING, TESTING, AND USE

- An aerial device purchased, modified, or remounted must meet the requirements of ANSI A92.2
- A permanent label or tag will be affixed to an aerial device purchased, modified, or remounted certifying compliance
- An employer modifying the basic design of an aerial device will secure approval of the
 modification in writing from the manufacturer of the aerial device, a firm offering an equivalent
 service, or a qualified engineer knowledgeable in the aerial device operations. The results of
 the modification will be at least as safe as the original design
- An aerial device will bear a permanent plate stating the designed rating capacity
- An aerial device will be mounted on a vehicle capable of sustaining, or reinforced to sustain, the imposed load. The vehicle will be a stable support for the aerial device
- The lifting and outrigger system of an aerial device will be equipped with a means, such as but not limited to, a pilot operated check valve to ensure that the system will not permit the work platform to drop in a free fall in event of a power or hydraulic line failure
- An aerial device that does not meet the requirements ANSI A92.2 will not be used unless it has been inspected and modified as required to conform to the essential stability, structural, electrical insulation, and operational requirements
- In addition to the welding requirements prescribed in ANSI A92.2, an aerial device will conform to the AWS D2.0

MAINTENANCE AND REPAIRS

- The materials used in the repair of aerial devices and elevating work platforms will conform to standard specifications of strength, dimensions, and weights, and will be selected to safely support the rated workload
- Electrical wiring and equipment will meet National Fire Protection Association (NFPA) 70 provisions
- All exposed surfaces will be free from sharp edges, burrs, or hazardous projections

Electrical Ratings

- The rating plate required will include a statement as to whether the aerial device is insulated or is non-insulated and, if insulated, the rated line voltage for which the aerial device was designed and tested
- The insulating portion of an aerial device will not be altered in any manner that might reduce its insulating value

SAFETY FACTORS AND YIELD POINTS

- The design of the basic structural elements of the aerial device including the platform and its
 component parts will have a yield point of not less than 3 times the rated load. Structural
 materials not having a clearly defined yield or break point will have a designed safety factor of
 not less than 5
- The designed safety factor of not less than 4 will apply to hydraulic and pneumatic parts which would, on failure, permit a free fall, free rotation of the boom, or loss of stability
- Noncritical components will have a bursting safety factor of not less than 2

Controls

- The controls for the operation of an aerial device will be permanently labeled as to their function
- Controls for an aerial device will be designed or guarded to prevent inadvertent start
- Articulating, extensible boom platforms, or both, primarily designed as personnel carriers, will be equipped with both upper and lower controls. functions
- Upper controls will be located within reach of the operator
- Lower controls will be capable of overriding the upper controls. Except in case of an emergency, the lower controls will not be operated unless permission has been obtained from the employee in the basket or on the work platform

Stability Requirements for New or Modified Aerial Devices

Each new or modified aerial device will be inspected and tested before initial use to assure compliance with all of the following requirements.

- An aerial device, mounted on an approved vehicle, when used in a specific configuration, will
 be capable of sustaining a static load 1 ½ times its rated load capacity in every position that the
 load can be placed in when the vehicle is on a firm and level surface. If having the outriggers
 extend to a firm footing is part of the definition of the configuration, they will be extended to
 provide leveling for the purpose of determining whether the mobile unit meets the stability
 requirements
- An aerial device, mounted on an approved vehicle, when used in a specific configuration, will be capable of sustaining a static load 1 1/3 times its rated load capacity in every position that the load can be placed in the when the vehicle is on a slope of 5 degrees downward in the direction most likely to cause overturning. If having the outriggers extended to a firm footing is part of the definition of the configuration, they will be extended to provide leveling for the purpose of determining whether the mobile unit meets the stability requirements

- If other facilities, such as a means of turntable leveling, are provided to minimize the effect of the sloping surface, then those facilities will be utilized when determining if the mobile unit meets the stability requirements
- Vertical towers designed specifically for operation only on a level surface will be excluded from this requirement
- None of the stability tests described will produce instability of the mobile unit or cause permanent deformation of any component. The lifting of a tire or outrigger on the opposite side of the load does not necessarily indicate a condition of instability
- Verification by the manufacturer or an equivalent entity that the stability of an aerial device meets the requirements may be used to demonstrate compliance

Inspection and Tests

- An aerial device will be inspected and tested at least annually for permanent deformation and cracks by using 1 ½ times the rated load and for defects by visual inspection during and following the load test
- An annual electrical test of insulated aerial devices will be made. An equivalent DC voltage test
 may be used in place of the prescribed AC voltage
- Field inspection and tests will be performed only by an authorized and trained employee or outside service
- Lift controls will be tested each day before use to determine that the controls are in safe working condition. An aerial device with defective controls will not be used until repaired

Use

- Any overhead line will be considered energized until the owner, owner representative, or utility indicates otherwise, and the line has been visibly grounded, and the owner, owner representative, or utility will be notified and provided with all pertinent information of the job before the commencement of operations near electrical lines
- Except as prescribed or where insulating barriers not a part of or an attachment to the aerial device have been erected to prevent physical contact with the lines, an aerial device will maintain the distances from energized distribution and transmission power lines and equipment prescribed in table 1
- A qualified lineman or a qualified line clearance tree trimmer performing work on or near an
 exposed power transmission or distribution line from an aerial lift will maintain distances
 prescribed in table 2, unless the employee is insulated or guarded from the energized part by
 gloves or gloves and sleeves, or insulated, isolated, or guarded from any other conductive part
 or the energized part is insulated from the employee
- A qualified telecommunications employee will maintain the distances prescribed in table 3
 when working from an aerial lift, unless the employee is insulated, isolated, or guarded from
 any other conductive part or the energized part is insulated from the employee
- The insulated bucket, gloves, and sleeves used to comply will be rated at more than the voltage to be worked on or that with which they might come into contact

- An in-plant, industrial-type aerial lift designed to be used on level surfaces will not be used on slopes, unless the aerial lift is adjusted to a firm, level plane
- A safety belt or harness will be used with a lanyard attached to the boom or basket when
 working from an aerial lift. The safety belt, harness, and lanyard will be provided by Hawk
 Energy, LLC. An in-plant, industrial-type aerial device used on a level surface and equipped
 with a platform with approved railings is exempt from this rule
- A boom platform will be provided with a rail or other structure around its upper periphery that
 will be not less than 38 inches above the floor of the platform and with a toe board not less than
 4 inches high. A basket of a cherry picker will be considered to meet this requirement. A
 platform may have the guardrail removed from the working side if a safety belt and lanyard is
 worn by the employee on the platform
- The designed rated capacity for a given altitude will not be exceeded
- A proximity warning device may be used, but not in place of meeting the requirements of this
 rule

Table 1

Minimum Clearance Distances for Equipment					
Voltage	Clearance With Boom Raised	Clearance Boom Lowered and No Load in Transit			
To 50 kV	10 feet	4 feet			
Over 50 kV	10 fact a 4 inches man	10 feet			
50 to 345 kV	10 feet + .4 inches per each 1 kV over 50 kV	10 feet			

Table 2

Minimum Working Distances for Qualified Line Clearance Tree Trimmers and Qualified				
Linemen				
Voltage Range Phase to Phase (KV)	Minimum Working Distance			
2.1 to 15.0	2'0"			
15.1 to 35.0	2'4"			
35.1 to 46.0	2'6"			
46.1 to 72.5	3′0″			
72.6 to 121.0	3'4"			
138.0 to 145.0	3'6"			
161.0 to 169.0	3′8″			
230.0 to 242.0	5′0″			
345.0 to 362.0	*7′0″			
550.0 to 552.0	*11′0″			
700.0 to 765.0 *15´0″				

Table 3

Minimum Approach Distances for Qualified Telecommunications Employees				
Voltage Range (Nominal Phase to Phase)	Minimum Approach Distances			
300 V and less	12"			
Over 300 V, not over 750 V	18"			
Over 750 V, not over 2 kV	24"			
Over 2 kV, not over 15 kV	36″			
Over 15 kV, not over 37 kV	42″			
Over 37 kV, not over 87.5 kV	48″			

Vehicles

- Before a vehicle supporting an aerial ladder is moved for highway travel, the ladders will be secured in the lower position, and the manually operated device at the base of the ladder, or other effective means, will be used to prevent elevation or rotation of the ladder
- Before a vehicle supporting an aerial lift is moved for travel, the boom will be inspected to
 ensure that it is properly cradled, and the outriggers are in the stowed position
- A vehicle supporting an aerial device will not be moved when the boom is elevated with employees in working position, unless the equipment is specifically designed for this type of operation and meets the requirements
- Brakes will be set and outriggers, when used, will be positioned on pads or a solid surface
- Wheel chocks will be installed before using an aerial device on an incline

ELEVATING WORK PLATFORMS

These rules apply to equipment that has a primary function of elevating personnel, together with their tools and necessary materials, on a platform that is mechanically positioned. The following American National Standard Institute (ANSI) units are covered:

- ANSI Standard A92.2, "Vehicle-Mounted Elevating Work Platforms"
- ANSI Standard A92.3, "Manually Propelled Elevating Work Platforms"
- ANSI Standard A92.5, "Boom-Supported Elevating Work Platforms"
- ANSI Standard A92.6, "Self-Propelled Elevating Work Platforms"

Equipment not Covered

- Equipment that has a primary function other than elevating personnel, such as fork trucks or cranes that are adapted to elevating personnel, is not covered by these rules
- Firefighting equipment

Construction

- Aerial work platforms will be designed, constructed, and tested so as to follow the requirements of ANSI standards A92.2, A92.3, A92.5, and A92.6
- Aerial work platforms will not be field-modified for uses other than those intended by the
 manufacturer, unless the modification has been certified in writing by the manufacturer or by
 any other equivalent entity, such as a nationally recognized testing laboratory, to be in
 compliance with the applicable ANSI standard and this rule, and to be at least as safe as the
 equipment was before modification

Directional controls will follow all of the following provisions:

- Be of the type that will automatically return to the off or neutral position when released
- Be protected against inadvertent operation
- Be clearly marked as to their intended function
- An overriding control will be provided in the platform which must be continuously activated for platform directional controls to be operational and which automatically returns to the off position when released
- Aerial work platforms will be equipped with emergency controls at ground level
- Emergency ground level controls will be clearly marked as to their intended function and be capable of overriding the platform controls

All of the following information will be clearly marked in a permanent manner on each aerial:

- Special workings, cautions, or restrictions necessary for operation
- Rated workload
- A clear statement of whether or not the aerial work platform is electrically insulated
- Rotating shafts, gears, and other moving parts that are exposed to contact will be guarded as required
- Attachment points will be provided for fall protection devices for personnel who occupy the platform on aerial work platforms

Inspection, Maintenance, and Testing

An employer will comply with all of the following requirements:

- Each aerial work platform will be inspected, maintained, repaired, and kept in proper working condition in accordance with the manufacturer's operating, maintenance, and repair manuals
- Any aerial work platform found not to be in a safe operating condition will be removed from service until repaired. All repairs will be made by an authorized person in accordance with the manufacturer's operating, maintenance, and repair manuals
- If the aerial work platform is rated and used as an insulated aerial device, the electrical insulating components will be tested for compliance with the rating of the aerial platform in accordance with ANSI standard A92.2, Section 6

Such testing will comply with all of the following provisions:

- The test will be performed not less than annually
- Written, dated, and signed test reports will be made available by Hawk Energy, LLC for examination by OSHA
- The insulated portion of an aerial device will not be altered in any manner that might reduce its insulating value
- All danger, caution, and control markings and operational plates will be legible and not obscured

Pre-operation Procedures

Before use on each work shift, an aerial work platform will be given a visual inspection by the operator for defects that would affect its safe operation and use. The inspection will consist of not less than both of the following procedures:

- Visual inspection for all of the following: cracked welds, bent or broken structural members, hydraulic or fuel leaks, damaged controls and cables, loose wire, tire condition, fuel and hydraulic fluid levels, slippery conditions on the platform
- Operate all platform and ground controls to ensure that they perform their intended function
- Before the aerial work platform is used, and during use on the job site, the operator will inspect
 the operational area for all of the following: ditches, drop-offs, holes, debris, bumps and floor
 obstructions, overhead obstructions, power lines
- The area around the aerial work platform will also be inspected to assure clearance for the platform and other parts of the unit
- All unsafe items found as a result of the inspection of the aerial work platform or work area will be corrected before further use of the aerial work platform
- When the specified clearances cannot be maintained, the owner of electrical lines or the authorized representative will be notified and provided with all pertinent information before the commencement of operations near electrical lines
- Any overhead wire will be considered to be an energized line until the owner of the line or the authorized representative states that it is de-energized

OPERATING PROCEDURES

- The aerial work platform will be used only in accordance with the manufacturer's operating instructions and safety rules.
- The following clearances will be maintained when operating aerial work platforms or other equipment under, over, by, or near energized electric power lines:

VOLTAGE	MINIMUM CLEARANCE
0 to 50 kV	10 feet
More than 50 kV	10 feet + .4 inch per kV

The clearance

not apply to the following situations:

requirements of this rule do

- Where work is performed from an insulated aerial device that is insulated for the work and the
 work is performed in accordance with the provisions of construction safety standard "Power
 Transmission and Distribution" and "Telecommunications"
- Where the electric power transmission or distribution lines have been de-energized and visibly grounded at the point of work or where insulating barriers that are not a part of an attachment to the aerial work platform have been erected to prevent physical contact with the line
- Where work is being performed by journeymen electricians on equipment up to .5kV.

- Two journeymen electricians will be required for work within the minimum clearance on equipment over .5kV
- Proximity warning devices may be used, but will not be used instead of meeting the requirements of this rule
- The manufacturer's rated load capacity will not be exceeded. Hawk Energy, LLC will ensure
 that the load and its distribution on the platform are in accordance with the manufacturer's
 specifications. The aerial work platform rated load capacity will not be exceeded when loads
 are transferred to the platform at elevated heights
- Only personnel, their tools, and necessary materials will be on or in the platform
- The guardrail system of the platform will not be used to support any of the following: materials, other work platforms, employees
- Personnel will maintain firm footing on the platform while working on the platform. Using railings, planks, ladders, or anything on the platform for more height is prohibited
- Fuel gas cylinders will not be carried on platforms that would allow gas accumulation
- A safety harness that has a lanyard which is in compliance with construction safety standard
 "Fall Protection", and which is affixed to attachment points provided and approved by the
 manufacturer will be provided by Hawk Energy, LLC and used by any occupant of an aerial
 work platform described in these rules. A fall arrest system will only be used where the aerial lift
 is designed to withstand the vertical and lateral loads caused by an arrested fall
- A body belt may be used with a restraint device with the lanyard and the anchor arranged so
 that the employee cannot fall. A restraint device is required where the aerial lift cannot
 withstand the vertical and lateral loads imposed by an arrested fall
- Do not belt off to adjacent pole, structure, or equipment while on an aerial work platform
- An employer will not allow employees to exit an elevated aerial work platform, except where elevated work areas are inaccessible or hazardous to reach. Employees may exit the platform with the knowledge and consent of Hawk Energy, LLC. When employees exit to unguarded work areas, fall protection will be provided and used as required
- Only aerial work platforms that are equipped with a manufacturer's installed platform controls for horizontal movement will be moved while in the elevated position
- Before and during driving while elevated, an operator of a platform will:
- Look in the direction of, and keep a clear view of, the path of travel and make sure that the path is firm and level.
- Maintain a safe distance from: obstacles, debris, drop-offs, holes, depressions, ramps, overhead obstructions, overhead electrical lines, other hazards to safe elevated travel.
- Outriggers or stabilizers are to be used in accordance with the manufacturer's instruction. Outriggers and stabilizers will be positioned on pads or a solid surface
- Aerial work platforms will be elevated only when on a firm and level surface or within the slope limits allowed by the manufacturer's instructions

- A vehicle-mounted aerial work platform will have its brakes set before elevating
- A vehicle-mounted work platform will have wheels chocked before using on an incline
- Climbers will not be worn while performing work from an aerial work platform
- Platform gates will be closed while the platform is in an elevated position
- Stunt driving and horseplay are prohibited
- Altering, modifying, or disabling safety devices or interlocks is prohibited
- Hawk Energy, LLC will prevent ropes, cords, and hoses from entangling in the aerial work platform
- A platform operator will ensure that the area surrounding the aerial work platform is clear of personnel and equipment before lowering the platform
- Before and during travel, except as provided for horizontal movement, an operator will do all of
 the following: inspect to see that booms, platforms, aerial ladders, or towers are properly
 cradled or secured; ensure that outriggers are in a stored position; limit travel speed according
 to the following factors; condition of the surface; congestion; slope; location of personnel; other
 hazards
- The aerial work platform will not be positioned against another object to steady the platform
- The aerial work platform will not be operated from a position on a truck, trailer, railway car, floating vessel, scaffold, or similar equipment
- The boom and platform of the aerial work platform will not be used to move or jack the wheels
 off the ground unless the machine is designed for that purpose by the manufacturer
- If the platform or elevating assembly becomes caught, snagged, or otherwise prevented from normal motion by adjacent structures or other obstacles so that control reversal does not free the platform, all personnel will be removed from the platform before attempts are made to free the platform

Elevating Work Platform Equipment

- The platform deck will be equipped with a guardrail or other structure around its upper periphery that will be 42 inches high, plus or minus 3 inches, with a mid-rail. (Chains or the equivalent may be substituted where they give equivalent protection.) Where the guardrail is less than 39 inches high, an approved personal fall protection system will be used
- The configuration of an elevating work platform may include a ladder for personnel to use in reaching the platform deck. Any ladder device used in this way will have rungs located on uniform centers not to exceed 12 inches
- Any elevating work platform equipped with a powered elevating assembly and having a
 platform height exceeding 60 inches will be supplied with safe emergency lowering means
 compatible with the specific elevating assembly employed
- Any powered elevating work platform will have both upper and lower control devices. Controls
 will be plainly marked as to their function and guarded to prevent accidental operation. The
 upper control device will be in or beside the platform, within easy reach of the operator. The
 lower control device will have the capability to lower the platform where the operator's safety is
 in jeopardy
- An emergency stopping device will be provided at the upper controls of elevating work platforms
- Elevating Work Platforms will include: toe boards at sides and ends that will be at least 4 inches high; EXCEPTION: Toe boards may be omitted at the access openings; a hinged trap access door, if applicable; a platform whose minimum width will not be less than 16 inches

Guarding of Moving Parts

All rotating shafts, gearing, and other moving parts will be guarded.

Stability on Inclined Surfaces

Unless recommended for such use by the manufacturer, no elevating work platform will be used on an inclined surface. Procedures for maintaining stability must be clearly outlined in the special warnings section of user's manual. The user will not deviate from the manufacturer's instructions.

Operating Instructions (Elevating Work Platforms)

- No employee will ride, nor tools, materials, or equipment be allowed on a traveling elevated platform unless the following conditions are met: the travel speed at Maximum Travel Height does not exceed 3 feet per second; self-propelled units will be equipped with electrical or other interlock means that will prevent driving them with the platform height greater than the Maximum Travel Height or at speeds greater than permitted at Maximum Travel Height; the surface upon which the unit is being operated is level with no hazardous irregularities or accumulation of debris that might cause a moving platform to overturn
- Units will be assembled, used, and disassembled in accordance with the manufacturer's instructions
- Units will be assembled and used only by personnel who have been trained in their use. Units will be inspected for damaged and defective parts before use
- Units will not be loaded in excess of the design working load and will be taken out of service when damaged or weakened from any cause. They will not be used until repairs are completed
- Employees will not sit, stand, or climb on the guardrails of an elevating work platform or use planks, ladders, or other devices to gain greater working height or reach
- Employees will not work on units when exposed to high winds, storms, or when they are covered with ice or snow (unless provisions have been made to ensure the safety of the employees)
- Employees climbing or descending vertical ladders will have both hands free for climbing

NOTE: Remove foreign substances from your shoes (e.g. mud, grease).

- Where moving vehicles are present, the work area will be marked with warnings such as flags, roped off areas or other effective means of traffic control will be provided
- Unstable objects such as barrels, boxes, loose brick, tools, debris, will not be allowed to accumulate on the work level
- In operations involving production of small debris, chips, etc., and the use of small tools and materials, and where persons are required to work or pass under the equipment, screens will be required between toe boards and guardrails. The screen will extend along the entire opening, will equal No. 18 gage U.S. Standard Wire ½-inch mesh

PIN-ON PLATFORMS

- Pin-on platforms will be securely pinned to the boom or boom extension
- Employees on the elevated pin-on platform will be secured to the boom by a safety belt and lanyard or a body belt and safety strap
- Aerial baskets or platforms will not be supported by adjacent structure(s) when workers are on the platform or in the basket while in an elevated position
- Lift controls will be tested in accordance with the manufacturer's recommendations or instructions prior to use to determine that such controls are in safe working condition.
- Only authorized persons will operate an aerial device
- Belting off to an adjacent pole, structure, or equipment while working from an aerial device will not be permitted
- Employees will not sit or climb on the edge of the basket or use planks, ladders or other devices to gain greater working height
- Boom and basket and platform load limits specified by the manufacturer will not be exceeded
- When elevating personnel with the vehicle stationary the braking systems will be set
- Provided they can be safely installed, wheel chocks will be installed before using an aerial device on an incline
- When used, outriggers will be positioned on pads or a solid surface. All outriggers will be equipped with hydraulic holding valves or mechanical locks at the outriggers
- Climbers will not be worn while performing work from an aerial device
- When an insulated aerial device is required, the aerial device will not be altered in any manner that might reduce its insulating value
- An aerial device truck will not be moved when the boom is elevated in a working position with employees in the basket or platform except when all of the following are complied with:
- The equipment is specifically designed for this type of operation.
- All controls and signaling devices are tested and are in good operating condition.
- An effective communication system will be maintained at all times between the basket or platform operator and where applicable, the vehicle operator.
- The route to be traveled is surveyed immediately prior to the work trip, checking for overhead obstructions, traffic, holes in the pavement, ground or shoulder, ditches, slopes, etc., for areas other than paved, a survey will be made on foot.
- The speed of the vehicle does not exceed three (3) miles per hour.
- Only one employee is in the basket.
- Both the driver and/or the elevated employee have been specifically trained for this type of work (towering) in accordance with the manufacturer's recommendations.
- Lower-level controls will not be operated unless permission has been obtained from the employee in the device, except in case of emergency
- Before moving an aerial device for travel, the boom(s) will be inspected to see that it is properly cradled, and outriggers are in stowed position

- An employee, while in an elevated aerial device, will be secured to the boom, basket or tub of an aerial device through the use of a safety belt, body belt, or body harness equipped with safety strap or lanyard.
- Safety belts/body belts are prohibited for use in personal fall arrest systems but may be used as part of a fall restraint or positioning device system.
- Safety belts/body belts used as part of a positioning device system will be rigged such that an employee cannot free fall more than 2 feet.
- A body harness may be used in a personal fall restraint, positioning or fall arrest system. When
 a body harness is used in a fall arrest system, the lanyard will be rigged with a deceleration
 device to limit maximum arresting force on an employee to 1,800 pounds and prevent the
 employee from hitting any levels or objects below the basket or platform and will limit free fall to
 a maximum of 6 feet.

ATTACHMENTS

- Aerial Lift Equipment Daily Inspection/Checklist
- Scissor Lift Operator Daily Inspection/Checklist

Aerial Lift Equipment Daily Inspection/Checklist

Use only equipment which is in safe working condition. DO NOT operate equipment that need repair.											
Com			Location of Use Time		1	Date					
Operator's Name Supervisor's Name											
Inspector(s) Name Hour Meter Reading											
Equi	Equipment Type Equipment ID Number Manufacturer										
General Site Information Ok Repai					Repair	N/A					
Controls in place for identified hazards?											
Work	areas pro	perly s	igned and barricaded?								
Oper	ator's mar	nual on	lift?								
Grou	nd man av	/ailable	for emergency descent who is knowle	dgeable of descent	valve c	peration?					
Ok	Repair	N/A		Carrier Veh	nicle				Ok	Repair	N/A
			Motor	Cal)						
			Crank case oil if clean and full	Ste	ering						
			Engine coolant is about 2' below cap	Ligi	hts						
			Clutch/converter	Tire	es prop	erly inflated					
			Driveline	Cut	ts or bu	ulges in the tires					
			Transmission fluid at proper level	Wh	neels a	nd lug nuts secure					
			Frame	Fire	e extin	guishers					
			Brakes	Cal	o glass						
			Differentials	Wa	rning l	ights and alarm					
			Outriggers	Acc	cess						
Ok	Repair	N/A		Hydraulio	CS				Οŀ	Repair	N/A
									UK		
			Relief valve(s)	•	mps				Ok		
	-		Relief valve(s) Restrictor valve(s)	Pur							
			, ,	Pur Bea	mps arings	draulic oil level					
			Restrictor valve(s)	Pur Bea Che	mps arings						
			Restrictor valve(s) Pipelines	Pur Bea Che Mc	mps arings eck hyd	bolts					
			Restrictor valve(s) Pipelines Hose lines	Pur Bea Che Mc	mps arings eck hyd ounting	; bolts ar					
			Restrictor valve(s) Pipelines Hose lines Outrigger cylinders	Pur Bea Che Mc Sw	mps arings eck hyd ounting ing gea ing pin	; bolts ar					
			Restrictor valve(s) Pipelines Hose lines Outrigger cylinders Boom crowd cylinders	Pur Bea Che Mc Sw	mps arings eck hyd ounting ing gea ing pin als - Hy	s bolts ar ion					
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			Restrictor valve(s) Pipelines Hose lines Outrigger cylinders Boom crowd cylinders Control valves	Pur Bea Che Mo Sw Sw Sea Lea Boom	mps arings eck hyd ounting ing gea ing pin als - Hy	s bolts ar ion draulic					
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			Restrictor valve(s) Pipelines Hose lines Outrigger cylinders Boom crowd cylinders Control valves Swing motor Shipper welds Boom welds Pins- Boom Pivot	Pur Bea Che Mc Sw Sw Sea Lea Boom Sup Boo Operational C	mps arings eck hyd ounting ing gea ing pin als - Hy aks opport R om pin om ma	s bolts ar ion draulic stoller s in section				Control Contro	
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Items to check during the daily inspection:

- Check all welds between cylinders and booms for cracks or wear
- Inspect all pivot pins for security of their locking devices
- · Check exposed cables, sheaves, and leveling devices for wear and secure attachment
- Inspect hydraulic system for frayed hoses and leaks
- Check lubrication and fluid levels
- Inspect boom and basket for cracks or abrasions
- Check for the load capacity posting
- Operate boom from ground controls through one complete cycle

Prestart Checks:

- Ensure that there are no obstacles around the work platform and in the path of travel such as holes, drop offs, ditches, soft fill, or debris
- Check overhead clearances
- Make sure the batteries are fully charged. Disconnect the AC charger cord from the external power source
- · Make sure that the Free-Wheeling Valve is fully closed
- Make sure all guardrails and lock-pins are in place and locked in position
- Make sure both side battery and hydraulic trays are closed and locked

What to do when using a bucket or other aerial device:

- Wear a safety harness connected to the boom. Do not attach safety harness to adjacent pole or structure
- Ensure that no one is in the area before lowering stabilizers, outriggers, or the boom
- Ensure that each axle is horizontal when vehicle is parked on a hill. Work with the boom pointed uphill beyond the vehicle center
- Protect a roadway job site with traffic warning signs, lights, and barricades. Determine if extended boom movements will interfere with traffic
- · Secure all tools when not in use
- Maintain the recommended distance from electrical wires unless you and the bucket are certified for electrical work
- Face the direction of travel
- Operate hydraulic controls slowly for smooth platform motion

What not to do:

- Do not stand on top of a bucket or use planks or ladders to gain extra height
- Do not exceed the rated load limit
- Do not ride from one job to another in the bucket
- Do not climb from bucket to another position without being secured to new position
- Do not work above other workers. Clear the area below
- Do not throw tools to or from an elevated bucket
- Do not attempt to slow any air or hydraulic leak by using your hand or body

Scissor Lift Operator Daily Inspection/Checklist

Company		Time	Date				
Inspector(s) Name		Foreman/Supervisor's Name					
Location Equipment Type			Equipment ID Number	Manufacturer			
Mechanical					Ok	Repair	N/A
Structural damage or cracked welds – Visua	al walk-aroun	id inspec	tion				
Parking brake – Check operation							
Tires/wheels & fasteners – Visually inspect,	. check opera	tion & tis	zhtness				
Railings & railing lock pins – Visually inspect & check tightness							
Entry chains or gates – Check operation & t							
Bolts and fasteners – Check tightness							
Safety Bar – Check operation							
Wheel Bearings & Kingpins – Visually inspe	ct. check one	ration &	lubricate				
Pothole Protection – Visually inspect & che			140110410				
Steering cylinder & tie rod – Visually inspec		ration & l	uhricate				
Guides/rollers & slider pads – Visually inspec				o-metal contact			
with slider, slider side, or running surface. (
of the slider pin through the slider							
Ground man available for emergency desce	ent who is kn	owledge	able of descent valve operatio	n?			
Electrical					Ok	Repair	N/A
Battery fluid level – Visually inspect							
Cables & wiring harnesses – Visually inspect							
Battery Terminals – Visually inspect check tightness							
Control switches – Visually inspect/check operation							
Terminals & Plugs – Check tightness							
Limit switches – Check operation							
Generator/receptacle – Visually inspect & check operation							
Hydraulic					Ok	Repair	N/A
Hydraulic oil reservoir level – Check oil level.							
Hydraulic Hoses/Fittings – Visually inspect & check for leaks							
Lift/lowering time – Check operation & refer to specification tables							
Cylinders – Visually inspect & check operation							
Emergency lowering – Check operation							
Lift capacity – Check relief valve setting & refer to specification tables							
Miscellaneous					Ok	Repair	N/A
Manual – Visually check that proper manual is in box							
Placards, I.D. plates, warnings & control labels – Replace if missing/illegible							
Prestart Checks					Ok	Repair	N/A
Hydraulic oil reservoir level – Check oil level.							
Hydraulic Hoses/Fittings – Visually inspect	& check for le	eaks					
Lift/lowering time – Check operation & refer to specification tables							
Cylinders – Visually inspect & check operat	ion						
Emergency lowering – Check operation							
Lift capacity – Check relief valve setting & r	efer to specif	fication t	ables				
NOTE : At any point during this inspection there are any deficiencies, do not operate lift any further. Notify the proper personnel or repair unit as needed. Do not operate equipment without proper authorization and training.					ate		
Inspector's Name Inspector's Signature			Date				

Items to check during the daily inspection:

- Tires for proper pressure and wheels for loose or missing lug nuts
- Steer cylinder, linkage, and tie rods for loose or missing parts, damage, & leaks
- Hydraulic oil for leaks and fluid level. Hydraulic hoses, lift cylinder(s), and connections for leaks or loose connections
- Fuel supply adequate fuel, filler cap in place, no damage, leaks, or spills
- · Battery for fluid level and state of charge
- Proper connection of all quick-disconnect hoses
- Structural components for damage, broken parts, cracks in welds, including scissor arms, outrigger arms, and pads
- Ladder or steps for damage and debris (ladder must be firmly secured to the platform and relatively free of grease, mud and dirt)
- Beacon and warning lights for missing and defective lenses or caps
- Ground controls (manual and powered) including emergency stop switch and platform lower/lift switch for proper function and damaged and missing control sticks/switches
- · Decals and warning signs to make sure they are clean, legible, and conspicuous

After mounting the platform, check:

- Platform assembly for missing or loose parts, missing or loose lock pins & bolts
- Platform floor for structural damage, holes, or cracked welds and any dirt, grease, or oil that can create a hazard
- Operator's manual to make sure it is in place
- Extendable platform deck for ease of extension/retraction and proper function of locking position of platform
- Guardrails to make sure they are in place and secure
- Access gate for ease of movement, missing parts, latch, and locking capabilities
- All fall protection anchorage points
- All control mechanisms for broken or missing parts
- All emergency controls for proper function stopping, descending, master OFF switch
- All safety devices such as tilt and motion alarms for malfunction
- Swivels for freedom of rotation
- Scissors for smooth movement up and down
- Brakes for stopping capabilities
- Horn for proper function

Training Record

Trainer:	
Signature:	
Date:	
Content o	f Training:
Atter	dees
Print Name:	Signature: