## 1.0 Policy

All noted equipment shall be operated, maintained, and controlled in a safe manner.

## 2.0 Purpose

To define the procedures and standards applying to the care, control, maintenance, inspection, and operation of the noted equipment.

## 3.0 Scope

All Sunbelt Controls work sites requiring the use of noted equipment.

## 4.0 Definitions

**Mobile Equipment** – earthmoving equipment: scrapers, loaders, crawler or wheel tractors, bulldozers, off-highway trucks, graders, agricultural and industrial tractors, backhoes and similar equipment.

**Mobile Unit** – a combination of an aerial device, its vehicle, and related equipment

**Vehicle** – any carrier that is not manually propelled.

## 5.0 Requirements

### 5.1 General

Only qualified operators designated by the Safety Manager or designee shall operate the noted equipment. Regular preventative maintenance programs shall be established in accordance with regulatory requirements or industry standards for each type of equipment.

All operators of the noted equipment shall be trained in safe operation of the equipment prior to being authorized to operate it. Records of initial and retraining shall be maintained. All operators who operate noted equipment on public roadways and any other public property shall hold a valid state drivers license.

Operators observed engaging in unsafe practices shall be prohibited from further equipment operation until they have completed retraining.

Persons may only be transported on equipment with designed seating capacity for such persons. Persons shall not be transported on equipment fenders, buckets, frames, steps, or other means not designed for the movement of people. Unauthorized persons shall not be transported on equipment even if the equipment is designed for such transport.

Prior to operation, drivers shall inspect their equipment and document accordingly. Basic functions shall be tested prior to actual use of the equipment. Unsafe conditions or function failure shall be reported to management. Equipment that is unsafe shall not be operated and tagged out of service. A sample 'Heavy Equipment' inspection form is found in Appendix 17-A.

Personal protective equipment (PPE) assessments shall be made for each type of equipment operations and the appropriate PPE provided (reference section twenty-five [25] PPE).

Employees taking prescription medication shall notify their supervisor if the medication warns against operation of machinery/vehicles/equipment. Supervisors shall take necessary

actions with this employee and the prescribing physician to provide direction on related work activities.

**5.2 Hoists (overhead)**

- The safe working load of the overhead hoist, as determined by the manufacturer, shall be indicated on the hoist, and this safe working load shall not be exceeded.
- The supporting structure to which the hoist is attached shall have a safe working load equal to that of the hoist.
- The support shall be arranged so as to provide for free movement of the hoist and shall not restrict the hoist from lining itself up with the load.
- The hoist shall be installed only in locations that will permit the operator to stand clear of the load at all times.
- Air hoists shall be connected to an air supply of sufficient capacity and pressure to safely operate the hoist. All air hoses supplying air shall be positively connected to prevent their becoming disconnected during use.
- All overhead hoists in use shall meet the applicable requirements for construction, design, installation, testing, inspection, maintenance, and operation, as prescribed by the manufacturer.
- Prior to using the crane/hoist, the operator shall do a visual inspection to confirm the safety of this equipment. This includes a check of the wire rope, chain, sling(s), hook(s) and other components.

**5.3 Mobile Equipment**

Mobile equipment shall have operating:

- Braking system(s)
- Taillights
- Brake lights
- Wipers for front windows
- Seat belt restraint systems
- Head lights (when operated in low light or at night)
- Reflective devices to warn of their presence in accordance with ‘Highway” standards
- Horn
- (For construction sites only) backup alarms when visibility to the rear is obstructed

Mobile equipment (not normally operated on public highways or roadways) shall display a ’slow-moving equipment’ symbol when traveling on them, and be operated in accordance with local and state highway regulations. Operators shall wear seat belts while operating mobile equipment. Material, tools, and other objects shall not be transported in the cab of mobile equipment.

Personnel are not permitted to ride:

- In mobile equipment cabs with operators (except during training exercises or when such equipment is designed and equipped by the manufacturer for additional riders)
- In buckets
- On fenders

- On running boards
- On forklifts
- Any other part of mobile equipment
- On any load being transported by mobile equipment

Mobile equipment shall be inspected at the beginning of each shift to assure that parts, equipment, and accessories are in safe operating condition and free of apparent damage that could cause failure while in use. Inspections shall be documented and include:

- Service brakes, including trailer brake connections
- Parking system (hand brake)
- Emergency stopping system (brakes)
- Tires
- Horn
- Steering mechanism
- Coupling devices
- Seat belts
- Operating controls
- Safety devices
- Window and cab glass
- Power window wipers
- Defogging and defrosting equipment
- Hydraulics for leaks
- Back-up alarms
- Fire extinguishers
- Backup mirrors

Defects that affect the safe operation of equipment shall be corrected before the unit is placed in service. Only qualified personnel shall repair mobile equipment.

A safety tire rack, cage, or equivalent protection shall be provided and used when inflating, mounting, or dismounting tires installed on split rims, or rims equipped with locking rings or similar devices. A remote wand shall be used to inflate tires that are mounted on rims on operational vehicles if they are equipped with split rims. No employee shall be allowed to be in front of the rim during this process.

When performing maintenance and/or repairs on movable parts of mobile equipment such as hydraulic rams, dump beds, buckets that create a pinch point shall be blocked, de-energized, cribbed or otherwise immobilized by other such activity (reference section fourteen [14] Energy Control – Lockout).

Bulldozer and scraper blades, end-loader buckets, dump bodies, and similar equipment, shall be either fully lowered or blocked when being repaired or when not in use. All controls shall be in a neutral position, with the motors stopped and brakes set, unless work being performed requires otherwise.

Whenever mobile equipment is parked, the parking brake shall be set. Such equipment parked on inclines shall have the wheels chocked and the parking brake set. During fueling operations the engine of mobile equipment shall be turned off, movable parts such as dozer

blades, and buckets shall be lowered to the ground. Mobile equipment fueled with gasoline shall not be operated in enclosed areas such as buildings. Mobile equipment fueled with "diesel" shall have an approved scrubber in good working condition. Mobile equipment fueled with compressed gas within enclosed areas shall be operated in accordance with manufacturers specifications.

The use, care and charging of mobile equipment using batteries shall be in accordance with manufacturers specifications (reference Electrical-General under section twelve [12]).

All cab glass shall be safety glass, or equivalent, that introduces no visible distortion affecting the safe operation of any mobile equipment. Glass that is cracked or broken shall be replaced before the affected mobile equipment is operated. When window glass is subject to conditions that cause fogging or frosting the windshields shall be equipped with operable defogging or defrosting devices.

Combustible and flammable materials shall be removed from the immediate area prior to operations. The operation of mobile equipment near energized electrical power lines shall conform to sub-section 5.2.3 of the Electrical-General section [12] of this policy manual.

A person shall be designated to observe clearance of the equipment and give timely warning for all operations where it is difficult for the operator to maintain the desired clearance by visual means.

Cage-type boom guards, insulating links, or proximity warning devices may be used on cranes, but the use of such devices shall not alter the requirements of any other regulation of this part even if such device is required by law or regulation.

Any overhead wire shall be considered to be an energized line unless and until the person owning such line or the electrical utility authorities indicate that it is not an energized line and/or it has been visibly grounded. Prior to work near transmitter towers where an electrical charge can be induced in the equipment or materials being handled, the transmitter shall be de-energized or tests shall be made to determine if electrical charge is induced on the crane.

The following precautions shall be taken when necessary to dissipate induced voltages:

- The equipment shall be provided with an electrical ground directly to the upper rotating structure supporting the boom; and ground jumper cables shall be attached to materials being handled by boom equipment when electrical charge is induced while working near energized transmitters. Employees shall be provided with nonconductive poles having large alligator clips or other similar protection to attach the ground cable to the load.
- All haulage vehicles, whose payload is loaded by means of cranes, power shovels, loaders, or similar equipment, shall have a cab shield and/or canopy adequate to protect the operator from shifting or falling materials.
- Personnel shall only ride in compartments designed for occupancy. These areas shall have a firmly attached seat and seat belt for each occupant. Seat belts and anchorages meeting the requirements of OSHA 49 CFR part 571 (Department of Transportation, Federal Motor Vehicle Safety Standards) shall be installed in all motor vehicles.

- Trucks with dump bodies shall be equipped with positive means of support, permanently attached, and capable of being locked in position to prevent accidental lowering of the body while maintenance or inspection work is being done.
- Operating levers controlling hoisting or dumping devices on haulage bodies shall be equipped with a latch or other device which will prevent accidental starting or tripping of the mechanism.
- Trip handles for tailgates of dump trucks shall be so arranged that, in dumping, the operator will be in the clear.

## 6.0 REFERENCES

OSHA 29 CFR 1910 Subparts F and N
OSHA 29 CFR 1926 Subparts H, N, O, and W