APOLLO INDUSTRIAL SAFETY AND HEALTH PROGRAM

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| Title  MECHANIZED EQUIPMENT | Number  AISH 40 | Revision  03 |
|  | Effective Date  04/22/2017 | Page  1 of 4 |

1. **Purpose**
2. To establish safety requirements for mechanized equipment, and to ensure compliance with Federal/State requirements.
3. **Responsibility**
   1. The Key Supervisor shall be responsible for implementation and ensuring compliance with this procedure.
   2. Employees shall be responsible for complying with the provisions of this procedure.
4. **Definitions**
5. **Mechanized Equipment**: For the purposes of this procedure, mechanized equipment shall include heavy equipment such as crawler or wheel tractors, bulldozers, scrapers, loaders, backhoes, power shovels, graders, off-highway trucks, agricultural and industrial tractors, and similar equipment.
6. **Qualified Person**: One who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, the work, or the project.
7. **General Requirements**
   1. Requirements for cranes and rigging are found in AISH 25. Requirements for aerial lifts and elevating work platforms are found in AISH 20.
   2. Only trained and qualified personnel, authorized by supervision, shall be allowed to operate mechanized equipment.
      1. Training shall consist of Formal instruction from a Qualified Person which includes lecture, discussion, interactive learning, videos, and written materials. Practical training involves instructor demonstrations and trainee exercises. Operator evaluation - critiques required.
      2. Training shall include but not limited to, Listing includes operating instructions, controls, capacity/stability, refueling, load stability, etc…
      3. Mandatory refresher training shall be provided when unsafe operations are observed, after an accident, if operation a different vehicle type, changes in conditions, etc…
   3. Mechanized equipment shall be inspected daily by the user prior to use. Monthly and upon arrival inspections shall be documented and the equipment inspection sheet. Any unsafe condition noted during this inspection shall be corrected before the equipment is placed in service. Equipment shall be maintained and inspected in accordance with AISH 19 and the manufacturer’s recommendation.
   4. Loads being lifted or transported by mechanized equipment shall be handled in a manner that ensures stability and prevents loss of the load during transit (i.e. trailers shall be chocked and secured).
   5. Equipment left unattended at night adjacent to traveled roadways shall parked in the designated easement as stipulated by contract and have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, to identify the location of that equipment.
   6. Cab glass shall be safety glass (or equivalent) that introduces no visible distortion affecting the safe operation of any machine. Plexiglas is not an acceptable substitute for safety glass. All vehicles with cabs shall be equipped with windshields and powered wipers. Cracked and broken glass shall be replaced. Vehicles operating in areas or under conditions that cause fogging or frosting of the windshields shall be equipped with operable defogging or defrosting devices.
   7. Equipment being operated or transported shall maintain a safe working distance from power lines or energized transmitters. A safe distance shall be 20 ft. or more shall be maintained at all times. Refer to AISH 37 Overhead Power Lines prior to any work closer than 20 ft. or 50 ft. for high voltage.
   8. Where traffic is diverted onto dusty surfaces, good visibility shall be maintained by suppressing the dust with water or other approved means.
   9. Personnel shall not mount or dismount equipment while the equipment is in motion. Always face the ladder and use hand holds when mounting and dismounting the equipment.
   10. If manufactured after July 1, 1969, all equipment describe in subsection 3.1 shall be provided with roll over protective structures (ROPS).

EXCEPTION: ROPS are not required for off-highway trucks, compactors, or skid-steer equipment.

* 1. Seat belts shall be provided and worn on all equipment when provided with ROPS, except for equipment designed only for stand-up operation.
  2. Riders shall not be allowed on equipment or any part of the load unless the equipment is designed for more than one person or a seat with a seat belt is provided and used.
  3. Equipment shall have a braking system capable of stopping and holding the equipment fully loaded. Whenever equipment is parked, the parking brake shall be set (if so equipped). Equipment parked on inclines shall have the wheels chocked and the parking brake set.
  4. Prior to employees being permitted to work under or between equipment, the equipment being repaired shall be stopped, secured, and substantially blocked or cribbed to prevent falling or shifting.
  5. Equipment shall be operated only in areas designed for the use of that equipment (e.g., flammable atmospheres, enclosed spaces).

1. **Procedure**
   1. Earthmoving Equipment
      1. Pneumatic-tired earthmoving haulage equipment, with a maximum speed exceeding 10 miles per hour, shall be equipped with fenders on all wheels.
      2. Earthmoving and compacting equipment with an obstructed view to the rear shall be equipped with a reverse signal alarm distinguishable from the surrounding noise level, or an employee shall signal the equipment operator while in reverse motion.
      3. Signal persons shall be present whenever such equipment is used in tight quarters or in areas that are congested with personnel, material, or equipment, regardless of whether an alarm is provided.
   2. Lifting and Hauling Equipment
      1. Lift trucks shall have the rated capacity clearly posted on the vehicle, and the ratings shall not be exceeded.
      2. Steering or spinner knobs shall not be attaché to steering wheels.
      3. High lift rider industrial trucks shall be equipped with overhead guards.
      4. When ascending or descending grades in excess of 5%, loaded trucks shall be driven with the load upgrade.
      5. Operators shall be certified to operate Lift Trucks.
   3. Service and Maintenance
      1. Heavy machinery, equipment, or parts thereof, which are suspended or held aloft by the use of slings, hoists, or jacks, shall be substantially blocked or cribbed to prevent falling or shifting before employees are permitted to work under or between them.
      2. Bulldozer and scraper blades, end-loader buckets, dump bodies, and similar equipment shall be either fully lowered or blocked when being repaired and when not in use.
      3. Controls shall be placed in neutral position with the motor stopped and brakes set, unless the work being performed requires otherwise.

**6.0 Records**

Not Applicable

**7.0 References**

American National Standards Institute/American Society of Mechanical Engineers (ANSI/ASME) B56.1, Safety Standards for Low Lift and High Lift Trucks

**8.0 Attachments**

Not Applicable