Bucket Truck Inspections

Working Safely Aloft
Bucket Truck (aka Aerial Lift)
Typical “Bucket Truck” Vehicles – Personnel Positioning

- Bucket van – under 10,000 GVWR
- Bucket truck – 10,001+
- Digger derrick with platform/basket – 26,001+ (material handling)
- Plant placer equipment with aerial platforms – 26,001+ (material handling)
Inspections – What Inspections?

- OSHA
- ANSI
- Manufacturer
- Federal Motor Carrier Safety Administration
Regulations & Standards

- 1910.67
- 1910.268
- 1926.453
- ANSI/SIA A92.2-2009 (aerial lifts)
- ANSI/ASSE A10.31-2006 (digger derricks)
- Federal Motor Carrier Safety Regulations (49CFR parts 396.11, 396.13, 396.21)
Manufacturer’s Manual

- Operator’s manual
- Inspection schedule
- Forms
- Drawings – diagrams
- Maintenance schedule
- Safety decal listing
Inspections

- Daily
- Weekly
- Monthly
- Quarterly
- Biannually
- Annual (FMCSR & ANSI periodic)
Critical Items

- Proper tire inflation
- Operation of lift controls – all functions
- Emergency stop button works
- Pedestal base mounting bolts
- Wheel chocks – minimum of 2
- Harness & lanyard in good condition
Daily Visual Inspection

- Hydraulic leaks – under truck & boom
- Loose/missing bolts, nuts, snap rings, cotter pins
- Cylinders & hoses
- Boom condition – welds, rust, damage
- Pedestal mounting bolts
- Bucket – mounting, door latch, safety
Turntable – bucket van
Boom; boom rest/cradle; pins, rings, bolts
Welds; look under the vehicle
Daily Visual Inspection

- Snow or ice buildup
- Outriggers
- Tire condition & inflation
- Safety decals
- Warning lights
- Safety/emergency equipment
- Fall protection harness & lanyard
Safety & Emergency Equipment

- Wheel chocks – minimum of 2
- Outrigger pads/mats
- First aid kit
- Portable fire extinguisher – DOT 5 B:C
- Reflective triangles, fusees
- Spare fuses – 1 for each amp circuit
Wheel Chocks – minimum of 2
Safety & Emergency Equipment

- Petroleum spill kit
- Fall protection system
- Warning signs
- Traffic cones
Pedestal Mounting Bolts

- Look for the colored dye/paint mark on bolt and lock nut
- Four mounting bolts connect pedestal to truck bed/frame
- ¾” grade 8 bolt
- Torque to 160# (Dur-A-Lift examples)
Pedestal Mounting Bolts
Cargo Area Access to Inspect
Pedestal Collapse – Loose & Missing Bolts
Hydraulic Oil Level

- Sight gauge
- 2” from top of tank with cap removed (Dur-A-Lift)
Pre-Operation Inspection

- Operator tests daily before use
- Lower & upper controls
- Test all switches/controls
- Test hydraulic and 12 volt electrical
- “Safe operating condition”
PPE Inspection –
Fall protection

- Full body harness with shock absorbing lanyard
- Shorter lanyard – 4’, maybe 3’
- Inspected prior to use
- Wear, deterioration, cuts, loose threads, pulled rivets
- Manufacturer recommendation – 5 years use (from in-service date)
Commercial Motor Vehicle Inspection (DOT FMCSR)

- Covers truck chassis and safety/emergency equipment
- Pre-trip visual – “walk around”
- Post-trip written
- Driver vehicle inspection report
- Periodic (annual)
- Inspection decal on driver’s door
Resources - Manufacturers

- www.altec.com
- www.dur-a-lift.com
- www.versalift.com
- www.chocks.com
Resources – Regulations & Standards

- www.fmcsa.dot.gov
- www.osha.gov
- www.ansi.org
- www.buckettrucks.org
Inspections done – up we go
That’s It – Any Questions?