New US and Canadian Aerial Work Platform Standards

Tony Groat – IPAF North America Manager - Session T44

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Subject Matter Expertise

• ANSI A92.22 Safe-use Subcommittee Chair
• CSA B34.8 Safe-use Subcommittee Chair
• CSA B354.9 Training Subcommittee Chair
• ISO TC 214 Elevating Work Platform member

Overview

• ANSI A92.3(push-around)/.5(SP boom)/.6(Scissor)/.8(underbridge) to be replaced by A92.20 (design)/A92.22(safe-use)/A92.24(training)
• CSA B354.1/.2/.4 to be replaced by B354.6/design)/B354.7(safe-use)/B354.8(training)
• ID significant changes and their impact on users

Aerial Lifts are the SAFEST means to provide temporary access to work at height

Provided they are used by qualified persons in compliance with Industry standards
What are the rules for operating a LIFT?

- Graphs/Photos/Video/Text

Terminology

31 NEW definition, 10 prior definitions that are not included, 15 changes to prior definitions:

- AWP to MEWP
- Groups and Types (combined = MEWP classifications)
- Dealer: A person or an entity who buys, rents or leases from a manufacturer or distributor and who generally sells, rents and services MEWPs.

NOTE: A manufacturer, owner, user, operator, lessor, lessee, or broker is considered to be and assumes the responsibilities of a dealer when that entity is acting in the capacity of this definition.

- Operation manual vs operator’s manual

New Draft Standards

Current Standards:
- A92.2-2015 Vehicle-Mounted Elevating and Rotating Aerial Devices
- A92.3-2006 (R2014), Manually Propelled Elevating Work Platforms
- A92.5-2016 (R2014), Boom-Supported Elevating Work Platforms
- A92.6-2006 (R2014), Self-Propelled Elevating Work Platforms
- A92.7-2014, Airline Ground Support Vehicle-Mounted Vertical Lift Devices
- A92.8-2006 (R2011), Vehicle-Mounted Bridge Inspection and Maintenance Devices

- Draft Standards
- A92.20-2017 Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs)
- A92.22-2017 Safe Use of Mobile Elevating Work Platforms (MEWPs)
- A92.24-2017 Training Requirements for the Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms (MEWPs)

Responsibilities – Task vs Entity

<table>
<thead>
<tr>
<th>ENTITY</th>
<th>TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Safe-use planning</td>
</tr>
<tr>
<td>Dealer</td>
<td>Manuals</td>
</tr>
<tr>
<td>Owner</td>
<td>Record retention</td>
</tr>
<tr>
<td>User</td>
<td>Maintenance</td>
</tr>
<tr>
<td>Operator</td>
<td>Inspections</td>
</tr>
<tr>
<td>Lessor</td>
<td>Repair</td>
</tr>
<tr>
<td>Lessee</td>
<td>Risk assessment</td>
</tr>
<tr>
<td>Broker</td>
<td>Personnel qualification &amp; training</td>
</tr>
<tr>
<td></td>
<td>Requirements of Operation</td>
</tr>
</tbody>
</table>

Groups

Group A: All Others

Group B: Booms

Types

TYPE 1: Static

TYPE 2: Mobile from ground controls

TYPE 3: Mobile from platform
Classifications

A combination of a GROUP and TYPE

1a 1b 3b

Design Changes

- Platform Load sensing system
- Providing a means to identify the date the last annual inspection was performed
- Providing requirements for machine familiarization within the operator’s manual.
- Limited movement of MEWP in addition to tilt alarm sensors.

Platform Load Sensing System

- Requires a system to monitor the weight in the platform and disable functions if weight is higher than allowable rated load

Cause for overload:
- Lack of understanding of rated load
- Not calculating weight accurately
- Platform in contact with building or structure
- Lack of work planning

CAPACITY

- More accurate weight measurement.
- Smarter control systems that know the position of the boom.
- Better stability and structural analysis tools.

Risk Assessment

- On all work to be performed
- ID potential hazards and provide control measures to mitigate risk
- Rescue plan for work at height

Vacating or Entering and Elevated MEWP

- Manufacturer guidance will be required and will likely be general
- User must provide procedure that includes manufacturer requirements and 13 points within the standard
Exiting Elevated MEWP

The WRONG way...

...and the RIGHT way.

Operator Training

Training shall include both theory (classroom/online) training and practical (hands-on) operation and evaluation.

Theory training – instructor led

Practical (Hands-on) training and evaluation

Theory training – online

WARNING: Don’t misapply the standard...

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Theory training – instructor led

Practical (Hands-on) training and evaluation

Theory training – online

User training RESPONSIBILITY

The user shall ensure that training is presented in a manner that trainees can understand.

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Theory training – instructor led

Practical (Hands-on) training and evaluation

Theory training – online

MEWP Occupants

- The MEWP operator shall provide instruction or otherwise ensure all occupants have a basic level of knowledge to work safely on the MEWP.

- This instruction should also provide at least one of the occupants with the knowledge to operate the controls in an emergency where the operator cannot

- This instruction does not give the occupant authorization to operate the controls at any time except in an emergency.

Training

Operator (Theory & Practical)

Occupant (Instructions)

Supervisor (Theory)

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Operator (Theory & Practical)

Occupant (Instructions)

Supervisor (Theory)
Supervisor Training (ANSI)

Users shall ensure personnel that directly supervise MEWP operators are trained in the following:

- proper selection of the correct MEWP for the work to be performed;
- the rules, regulations and standards that apply to MEWPs, including the provisions for safe use as defined in ANSI A92.22, training and familiarization, and the work being performed;
- potential hazards associated with use of MEWPs and the means to protect against identified hazards;
- knowledge that the manufacturer's operation manuals are an integral part of the MEWP and need to be stored properly in the weather resistant compartment on the MEWP.

Other Notable Changes in Language

- Dealer offer vs provide familiarization
- Mandatory means to ID annual inspection date on MEWP
- User to allow operator time after familiarization to achieve operational proficiency
- Minimum 10ft from electrical conducts
- More detailed guidance

Questions?
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Be SAFE – Be PREPARED QUESTIONS???

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