



**Alternative Power Technical Committee (APTC)**  
**Location: TEAMS**  
**Date: August 29, 2024**  
**Agenda**

<b>I.</b>	<p><b>Call to Order, Welcome</b></p> <p><b>Anti-trust statement</b></p> <p><i>The exchange of many types of information between AEM members that concerns common problems is legal, proper and essential to fulfilling the legitimate purposes of AEM. However, some subjects are not proper for discussion, either directly or indirectly. Antitrust laws preserve and promote free competition, the basis of a free-market economy. AEM unequivocally supports the policy of competition and reaffirms its uncompromising intent to comply strictly in all respects with those laws.</i></p>	
<b>II.</b>	<p><b>Approval of Agenda and Minutes</b></p> <ul style="list-style-type: none"> <li>• Agenda -</li> <li>• Minutes -</li> </ul> <p><a href="#">Minutes - 2024.07.15 - APTC.docx</a></p>	<b>John Hunter - Komatsu</b>
<b>Old Business</b>		
<b>III.</b>	<p><b>Update from TC 127/WG 17 – If needed</b></p> <ul style="list-style-type: none"> <li>• <i>WG 17 is looking at the suite of standards under 127.</i></li> <li>• <i>This group is looking to review electrification activity for <b>EMM</b> that involve replacing the diesel engine, powering earthmoving equipment as defined in ISO 6165, with a battery(s) and electrical components i.e., Traction motors, electric actuators, electric pumps etc., and how those activities impact standards that support the EMM industry.</i> <ul style="list-style-type: none"> <li>○ <i>Intent is to use ISO 5757 and distribute to the other technical committees and use as a template to form working groups to perform these types of assessments in other technical committees.</i></li> </ul> </li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• WG consultation is out and available for review. <ul style="list-style-type: none"> <li>○ Review period ends on 8/5</li> </ul> </li> <li>• Next Steps: Prioritize existing documents to best utilize TC’s future activities <ul style="list-style-type: none"> <li>○ ISO13766, 14990 are both critical standards</li> </ul> </li> </ul> <p><b>Action Items:</b></p>	<b>Kevin Lueschow – Caterpillar and/or Jon Spomer – Doosan Bobcat</b>

	<ul style="list-style-type: none"> <li>All interested members – provide feedback by 8/5/24</li> </ul> <p><b>Other Standards Related Issues:</b></p> <ul style="list-style-type: none"> <li><a href="#">Link to the Google docs spreadsheet</a></li> <li>ISO 22543 – Bystander awareness: document is approved.</li> <li>Update on ISO 14990 – Discussion</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>Opportunity to Meet at Komatsu to Redline ISO14990             <ul style="list-style-type: none"> <li>September 4<sup>th</sup> @ Chicago, IL Komatsu Facility from 1-4pm</li> <li>Proposed agenda:                 <ul style="list-style-type: none"> <li>Welcome/Safety info</li> <li>AEM anti-trust statement</li> <li>Introductions</li> <li>Safety share</li> <li>Workshop ISO 14990-1, -2, -3 redline</li> <li>Next steps/Other topics</li> <li>Close</li> </ul> </li> </ul> </li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li></li> </ul>	
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Updates from working groups		
IV.	<p><b>DC Arc Flash WG</b></p> <ul style="list-style-type: none"> <li>Update from previous WG meeting</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>Letter was completed and sent out to APTC</li> <li>Motion to dissolve the WG</li> <li>Any interest in presenting at S&amp;PL?</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li></li> </ul>	<b>John Hunter - Komatsu</b>
V.	<p><b>EU Battery Regulation WG</b></p> <ul style="list-style-type: none"> <li>Carbon footprint calculation for Industrial battery has been published. WG is meeting on July 17<sup>th</sup> @11am to discuss</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>WG submitted feedback to JRC on 7/24</li> </ul> <p><b>Action Items:</b></p>	<b>Dan Willy - Komatsu</b>

	<ul style="list-style-type: none"> <li>•</li> </ul>	
VI.	<p><b>ERG Hosting Site/Funding WG</b></p> <ul style="list-style-type: none"> <li>• <i>Progress update/Potential candidates</i></li> <li>• <i>NGO: UL Fire Safety Research Institute (UL FSRI) vs UL commercial testing site</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• WG met to discuss the future of existing ERG databases and determined there is no current need for this WG to create an independent ERG Hosting Site</li> <li>• Motion to dissolve the WG</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	<b>Sam Rathburn - AEM</b>
VII.	<p><b>Emergency Response Guide – Li-ion Batteries</b></p> <ul style="list-style-type: none"> <li>• <i>The existing ERG directs users to a link that is no longer being actively maintained by the NFPA. Therefore, the WG would like to make the following proposal:</i></li> <li>• <i>Change the existing phasing to the following:</i> <a href="#"><u>ERG Rephrasing Proposal.docx</u></a></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Edits have been made to the AEM website</li> <li>• This group is done. Objective has been achieved. Guidelines are available on AEM website.</li> <li>• Motion to dissolve the WG</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	<b>Jason Flanagan – CAT</b>
VIII.	<p><b>EV Safety Hazard Awareness Campaign</b></p> <ul style="list-style-type: none"> <li>• <i>Proposal for an awareness campaign for EV Fire Safety Hazards</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	<b>Peter Schecter – John Deere</b>
IX.	<p><b>BEHM Symbols – Updates</b></p> <ul style="list-style-type: none"> <li>• <i>Looking for a new project lead</i></li> <li>• <i>Next meeting is July 18<sup>th</sup></i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	<b>Valerie Lynch - AEM</b>

New Business		
X.	<p><b>Vice Chair</b></p> <ul style="list-style-type: none"> <li>• <i>Yanbin Mo will be stepping down as Vice Chair</i></li> <li>• <i>APTC is seeking a new Vice Chair</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	Yanbin Mo - CNH
Parking Lot Items		
XI.	<p><b>BEHM Symbols – Updates</b></p> <ul style="list-style-type: none"> <li>• <i>Only needed if there is a relevant update.</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	Valerie Lynch - AEM
XII.	<p><b>EU - Industrial trucks – TC 110 Hydrogen standards</b></p> <ul style="list-style-type: none"> <li>• <i>Only needed if there is a relevant update.</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	Discussion – all
XIII.	<p><b>Battery Charging Standards for Construction Equipment Fleets - OPEI, ARA &amp; AEMP</b></p> <ul style="list-style-type: none"> <li>• <i>Only needed if there is a relevant update.</i></li> <li>• <i>Potential interest in standardizing charging connectors</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	Discussion – all
XIV.	<p><b>PFAS – Update</b></p> <ul style="list-style-type: none"> <li>• <i>Only needed if there is a relevant update.</i></li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	Discussion – all
XV.	<p><b>Vermont S. 254 – Battery EPR</b></p> <ul style="list-style-type: none"> <li>• <i>Only needed if there is a relevant update.</i></li> </ul> <p><b>Notes:</b></p>	Discussion – all

	<ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Action Items:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>	
<b>Other Business</b>		
<b>XVI.</b>	<ul style="list-style-type: none"> <li>• May be an upcoming opportunity for the APTC to have a F2F meeting in late March – early April in conjunction with AEF's North American PlugFest</li> </ul>	
<b>Adjourn</b>		
<b>XVII.</b>	<ul style="list-style-type: none"> <li>•</li> </ul>	