



Alternative Power Technical Committee (APTC)
Location: TEAMS
Date: October 29, 2024
Minutes

I.	<p>Call to Order, Welcome</p> <p>Anti-trust statement</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>	
II.	<p>Approval of Agenda and Minutes</p> <ul style="list-style-type: none"> • Agenda - Approved • Minutes - Approved <p>Minutes - 2024.08.29 - APTC.docx</p>	John Hunter - Komatsu
Old Business		
III.	<p>Update from TC 127/WG 17 – If needed</p> <ul style="list-style-type: none"> • <i>WG 17 is looking at the suite of standards under 127.</i> • <i>This group is looking to review electrification activity for EMM 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"> ○ <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> <p>Notes:</p> <ul style="list-style-type: none"> • The group completed their report. The document has been submitted to ISO and will likely be sent out in the coming weeks for ballot. • Group intends to meet in December to do some planning and prioritization in preparation for the plenary. • 	Kevin Lueschow – Caterpillar and/or Jon Spomer – Doosan Bobcat

	Action Items: <ul style="list-style-type: none"> • 	
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IV.	Other Standards Related Issues: <ul style="list-style-type: none"> • Link to the Google docs spreadsheet • <i>Any further update on ISO 22543 – Bystander awareness</i> • <i>Meeting next week in Frankfurt to continue expanding the content of this document.</i> Notes: <ul style="list-style-type: none"> • Action Items: <ul style="list-style-type: none"> • 	
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Updates from working groups		
V.	ISO14990 WG <ul style="list-style-type: none"> • <i>This WG is focusing on highlighting topics that may require additional attention from the ISO committee as it relates to ISO14990-1,2, and 3</i> Notes: <ul style="list-style-type: none"> • This group has met on a biweekly basis to identify items within the document that should be reviewed by the ISO committee. • This work is being done in preparation for the Q1 2025 plenary. Action Items: <ul style="list-style-type: none"> • 	Dan Willy - Komatsu
VI.	EU Battery Regulation WG <ul style="list-style-type: none"> • <i>This WG is focusing on the recent battery requirements coming from the EU and JRC. Most recently the WG has engaged in various feedback opportunities and surveys related to the developing battery regulations.</i> Notes: <ul style="list-style-type: none"> • Due to scheduling conflicts this group has not met in person. However, there continues to be work done in alignment with the JRC. Most recently a survey and feedback opportunity related to battery performance. • At this time EUROMOT does not intend on submitting a response to the open JRC content. 	Dan Willy - Komatsu

	<p>Action Items:</p> <ul style="list-style-type: none"> • 	
VII.	<p>BEHM Symbols WG</p> <ul style="list-style-type: none"> • <i>This group continues to have conversations around Battery Electric Symbols, some of which lead to the creation and registration of both AEM and ISO recognized Symbols</i> <p>Notes:</p> <ul style="list-style-type: none"> • This group has identified about 7 symbols that are being prepared for TC127 to be submitted to ISO • Given the symbols are related to electric batteries (cross-sector) there may be interest from TC23 members. <p>Action Items:</p> <ul style="list-style-type: none"> • 	<p>Valerie Lynch - AEM</p>

New Business		
VIII.	<p>Vice Chair</p> <ul style="list-style-type: none"> • <i>Yanbin Mo will be stepping down as Vice Chair</i> • <i>APTC is seeking a new Vice Chair</i> <p>Notes:</p> <ul style="list-style-type: none"> • Tabling this item <p>Action Items:</p> <ul style="list-style-type: none"> • Please submit nominations to Sam 	<p>John Hunter - Komatsu</p>
IX.	<p>Arc Flash Risk Assessment</p> <ul style="list-style-type: none"> • <i>Risk Assessment conversation regarding DC Arc Flash in applications of 1000V+</i> <p>Notes:</p> <ul style="list-style-type: none"> • A WG was created to form an industry position on DC Arc Flash safety. A public letter is now available to customers. At this time, this letter has received positive response from customers. • ICMM would like to continue working with industry leaders to further understand Arc Flash Hazards and risk assessment methodology. • It is currently unclear where this information will live within ISO. There is potential that it could live within ISO14990. • There may be interest to involve NFPA. 	<p>John Hunter - Komatsu</p>

	<p>Action Items:</p> <ul style="list-style-type: none"> • 	
X.	<p>EV Safety Hazard Awareness Campaign</p> <ul style="list-style-type: none"> • <i>This proposal illustrates the request for an AEM APTC WG to be created in support of an awareness campaign document regarding the topic of EV Fire Safety Hazards</i> • <i>The intent of this proposal is to educate industry stakeholders on the potential fire safety hazards in a manner that causes OEMs, end-users, and first responders to be more confident in the safety of EV equipment.</i> • aem draft for public safety awareness and training program development.pdf • <p>Notes:</p> <ul style="list-style-type: none"> • Peter was not able to join the call due to an unexpected personal event. Therefore, the agenda item has been tabled until the next APTC meeting. <p>Action Items:</p> <ul style="list-style-type: none"> • Sam – The proposal link has been updated 	Peter Schecter – John Deere

Parking Lot Items		
XII.	<p>EU - Industrial trucks – TC 110 Hydrogen standards</p> <ul style="list-style-type: none"> • <i>Only needed if there is a relevant update.</i> <p>Notes:</p> <ul style="list-style-type: none"> • No updates <p>Action Items:</p> <ul style="list-style-type: none"> • 	Discussion – all
XIII.	<p>Battery Charging Standards for Construction Equipment Fleets - OPEI, ARA & AEMP</p> <ul style="list-style-type: none"> • <i>Only needed if there is a relevant update.</i> • <i>Potential interest in standardizing charging connectors</i> <p>Notes:</p> <ul style="list-style-type: none"> • ARA (rental companies) and AEMP (contractors/fleet managers) made a request to industry to have a standard charging connectors. 	Discussion – all

	<ul style="list-style-type: none"> • AEM intends on writing a response letter with a message that the industry is aware of the concern and is driving towards standardization. However, OEMs need additional time to develop this technology. It is unlikely there will be a short term solution. • Potential room for an audience education piece regarding the challenges of standardizing charging connectors during this early development stage for the technology. • A paper could potentially be used to advocate for the progression of US infrastructure. <p>Action Items:</p> <ul style="list-style-type: none"> • Jason – Begin drafting an industry position letter. This work will start by addressing the comments made by ARA and AEMP, which will become the starting ground for a larger industry position paper. 	
XIV.	<p>PFAS – Update</p> <ul style="list-style-type: none"> • <i>Only needed if there is a relevant update.</i> <p>Notes:</p> <ul style="list-style-type: none"> • Many PFAS substances are crucial to the manufacturing industry. Various regulations have been passed to eliminate these substances. Great work has been done to advocate for the critical use of these substances within our industry. • AEM and EPA continue to advocate for harmonized standards • At this time Canada is not accepting an AEM letter on behalf of the industry. Therefore, companies are encouraged to submit requests for an extension <p>Action Items:</p> <ul style="list-style-type: none"> • 	Discussion – all
XV.	<p>Vermont S. 254 – Battery EPR</p> <ul style="list-style-type: none"> • <i>Only needed if there is a relevant update.</i> <p>Notes:</p> <ul style="list-style-type: none"> • Vermont S. 254 was enacted in June 2024. • AEM EPR Ad Hoc intends on tracking incoming state legislations and finding parallels. • Change agenda item to general Battery EPR. Potential regular updates from the EPR Ad Hoc as it relates to battery recycling. 	Discussion – all

	<p>Action Items:</p> <ul style="list-style-type: none"> • 	
Other Business		
XVI.	<ul style="list-style-type: none"> • Next Meeting: Send out a doodle poll for the first 2 weeks of December • Opportunity to meet in conjunction with the AEF North American PlugFest - AEF would like to align their North American PlugFest event with the AEM technical committee meetings. This is a great opportunity to align AEM members with the parallel work that is being done within AEF and supported by AEM and its members. <ul style="list-style-type: none"> ○ Week of March 31st - Milwaukee, WI 	
Adjourn		
XVII.	<ul style="list-style-type: none"> • At the conclusion of the agenda, the meeting was adjourned at 9:12am 	