

Alternative Power Technical Committee (APTC) Location: TEAMS Date: June 4, 2024

Minutes

l.	Call to Order, Welcome Anti-trust statement The exchange of many types of information between AEM members that co-common problems is legal, proper and essential to fulfilling the legitimate part AEM. However, some subjects are not proper for discussion, either directly indirectly. Antitrust laws preserve and promote free competition, the basis of		
II.	market economy. AEM unequivocally supports the policits uncompromising intent to comply strictly in all responsible. Approval of Agenda and Minutes Agenda - Approved Minutes - Approved	cy of competition and reaffirms	
Old	Minutes - 2024.3.28 - APTC.docx Business		
	 Update from TC 127/WG 17 – If needed WG 17 is looking at the suite of standards under 127. 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. 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. 	Kevin Lueschow – Caterpillar	
III.	Notes: Interest from the group to address the gaps within ISO14990, particularly as it relates to hydrogen pressure vessels Action Items: All interested committee members – Request to be on WG17, WG that will red line existing ISO14990 Sam will send an invite to committee members and then forward responses onto WG17 Look at the automotive industry and address whether or not it meets the needs and standards of the offroad industry	and/or Jon Spomer – Doosan Bobca	

1 APTC Doc

Other Standards Related Issues:



- Link to the Google docs spreadsheet
- ISO 22543 Bystander awareness: document is approved.
- Update on ISO 14990 Discussion

Notes:

• None

Action Items:

•

Upd	ates from working groups	
IV.	Only needed if there is a relevant update. Ontes: Current focus has been on battery symbols Action Items:	Steve Neva – Doosan Bobcat
V.	Alternative Power Position Paper Only needed if there is a relevant update. Notes: Messaging has been approved through the AEM boards This has been made available to the DOE and EPA https://www.aem.org/getmedia/1e30c2bd-738e-4857-b653-2e4292479d38/AEM-Alternative-Power-Technologies.pdf Action Items: Member – Review paper and provide feedback to AEM (if interested)	Jason Malcore - AEM
	 Emergency Response Guide – Li-ion Batteries 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 two following proposals: Change the existing phasing to the following: ERG Rephrasing Proposal.docx To investigate alternative opportunities for partnership on the maintenance of a site similar to the previous NFPA site: C:\Users\srathburn\Downloads\AEM APTC Draft Proposal - ERG Hosting Partner and Grant Funding.pdf Proposal 1 – Phrasing Notes: Postponed to next meeting Action Items: 	Sam Rathburn – AEM Jason Flanagan – CAT Peter Schecter – John Deere

2 APTC Doc



	Proposal 2 – Partnership Notes:	
	 Motion, seconded and approved Action Items: Sam – Send invitation to APTC for participation in a 	
	WG to pursue this proposal	
VI.	Only needed if there is a relevant update. WG is currently waiting for letter from Australian regulator to define the specifications of his request. Notes: While many industry accepted methods exist for AC and DC <1000V, there is no consensus test method for DC >1000V These calculations are required to determine proper level of PPE and distance from equipment Action Items: Members – Discuss internally to understand your companies best practices Sam – invite members to join the WG by summarizing concern and thoughts expressed today	John Hunter - Komatsu
	 EU Battery Regulation WG Only needed if there is a relevant update. WG recently participated in and supported Euromot's comments to recent EV Battery implementing regulation regarding Carbon Footprint Methodology Notes: WG is continuing to monitor Euromot and other developments concerning the regulation Euromot is soon expected to release an FAQ document Action Items: Only needed if there is a relevant update. 	Dan Willy - Komatsu
New	Business	
VII.	•	
Park	ing Lot Items	
VIII	PFAS – Update Only needed if there is a relevant update. Notes: An overview was provided on the existing regulations impacting the use of PFAS and the Substance Compliance Council's (SCC) efforts to address these regulations Recent conversations between AEM and EPA	Discussion – all
	indicate that the EPA does not intend on creating universal bans, rather bans will be scoped on a case by case basis.	

3 APTC Doc



	Action Items:			
IX.	Battery Charging Standards for Construction Equipment Fleets - OPEI, ARA & AEMP • Only needed if there is a relevant update. Notes: • AEM is currently in communication with OPEI, ARA, and AEMP • AEM is asking the APTC for recommendations on what the charging recommendation should be. • APTC agrees that the industry is currently evolving too rapidly for a definite solution, Therefore, at this time, the industry would recommend patience. Action Items: • Jason – complete letter to ARA & AEMP and send out to group	Discussion – all		
x	Vermont S. 254 – Battery EPR • Only needed if there is a relevant update. Notes: • None Action Items:	Discussion – all		
	 EU - Industrial trucks – TC 110 Hydrogen standards Only needed if there is a relevant update. Notes: Action Items: AEM – reach out to ITA to better understand the work being done in TC 110 regarding hydrogen standards. 	Discussion – all		
Other Business				
XI.	•			
Adjourn				
XII.	Meeting adjourned at 4:08			

4 APTC Doc