

Energy Attenuator Updates (policies, standards and specifications)

Comments received by TCP			
Comment ID	Organization	Comment	Response
415		Did the small car and pickup truck used to crash test the QUASH Reduced Exposure System meet the guidelines specified in Chapter 4, Table 4-1 of AASHTO MASH 2016? Small Car (1100kg, front wheel drive) Pickup Truck (2270kg, 2-Wheel Drive, 4 Door, with Center of Gravity between 710-750mm)	Testing was performed according to MASH and was considered satisfactory to MTO
416		Alternative OPS Reduced Exposure Systems have been previously implemented that have been crash tested to AASHTO MASH 2016 (Non-Redirective). Full scale testing was performed on these implemented systems per MASH Tests 3-40, 3-41, 3-42, 3-43, 3-44, and 3-45 guidelines. Was the QUASH Reduced Exposure System full scale crash tested connected to unanchored TALL42 according to the same AASHTO MASH guidelines (3-40 (Small Car	Quash was crash tested connected to anchored temporary concrete barrier which it may be connected to along with Tall42. Anchored TCB likely results in higher ridedown deceleration forces compared to unanchored barrier. Performance with Tall42 to be monitored in the field.

		with 1/4 Offset), 3-41, 3-42, 3-43, 3-44, and 3-45)?	
417		Alternative OPS Reduced Exposure Systems have been previously implemented that have been crash tested to AASHTO MASH 2016 (Non-Redirective). Full scale testing was performed on these implemented systems per MASH Tests 3-40, 3-41, 3-42, 3-43, 3-44, and 3-45 guidelines. Was the QUASH Reduced Exposure System full scale crash tested connected to Anchored Temporary Concrete Barrier according to the same AASHTO MASH guidelines (3-40 (Small Car with 1/4 Offset), 3-41, 3-42, 3-43, 3-44, and 3-45)?	See response to Question 416.
420		In MTOD 924.151 and MTOD 924.152 it seems that the symbols for greater than and less than, found in Note 1, have been reversed based on previous Reduced Exposure OPS drawings that have been implemented in the past. Should the symbol for greater than and less than be reversed in these drawings?	To be corrected in final drawings