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MASH-16 Compliance Assessment

Sponsor Information

Date:	September 6, 2020	
Name:	Roadside Safety Pooled Fund	
Company:	N/A	
Address:	N/A	
City, ST Zip:	N/A	
Country:	United States of America	

Texas A&M Transportation Institute (TTI) evaluated the product described below and found it to meet the appropriate evaluation criteria in MASH-16.

Device & Testing Criterion

System Type	Device Name/Variant	Testing Criterion	Test Level
Longitudinal Barriers	Oregon F-Shape Concrete Median Barrier (free-standing condition)	MASH-16	TL3

Disclosure of Financial Interest

- \boxtimes TTI has no financial interest beyond payment for services for design and/or evaluation of this product.
- □ Other (describe):

Product Description

C New Hardware	Significant Modification to	Non-significant Modification to
	Existing Hardware	Existing Hardware

The Oregon F-Shape Concrete Median Barrier (free-standing condition) is comprised of 12 ft-6 inch long precast concrete barrier segments that are connected to each other using pin-and-loop connections. The standard barrier configuration is 32 inches tall, and the tall barrier configuration is 42 inches tall. Attachment A shows a detailed drawing of the Oregon F-Shape Concrete Median Barrier (free-standing condition).

Evaluation Results

Any full-scale crash testing performed by TTI as part of this evaluation was done in compliance with MASH-16.

MASH Test Number	Description/Justification	Evaluation Results
3-10 (1100C)	MASH Test 3-10 was successfully performed on the 32-inch tall Oregon F-Shape Concrete Median Barrier (free-standing condition) and is documented in Report No. 607911-1&2, "MASH TL-3 Testing and Evaluation of Free-Standing Portable Concrete Barrier."	Non-critical, not performed
	MASH Test 3-10 has not been conducted on the 42-inch tall Oregon F-Shape Concrete Median Barrier (free-standing condition). However, the 42- inch tall barrier has the same profile as the 32-inch tall barrier and has a greater height. Thus, the 42- inch tall barrier can be considered less critical than the 32-inch tall barrier when considering vehicle stability, structural adequacy, and occupant risk.	
	The 32-inch tall and 42-inch tall Oregon F-Shape Concrete Median Barriers (free-standing condition) can be considered satisfactory according to MASH Test 3-10 evaluation criteria.	
3-11 (2270P)	MASH Test 3-11 was successfully performed on the 32-inch tall Oregon F-Shape Concrete Median Barrier (free-standing condition) and is documented in Report No. 607911-1&2, "MASH TL-3 Testing and Evaluation of Free-Standing Portable Concrete Barrier."	Non-critical, not performed
	MASH Test 3-11 has not been conducted on the 42-inch tall Oregon F-Shape Concrete Median Barrier (free-standing condition). However, the 42- inch tall barrier has the same profile as the 32-inch tall barrier and has a greater height. Thus, the 42- inch tall barrier can be considered less critical than the 32-inch tall barrier when considering vehicle stability, structural adequacy, and occupant risk.	
	The 32-inch tall and 42-inch tall Oregon F-Shape Concrete Median Barriers (free-standing condition)	

can be considered satisfactory according to MASH Test 3-11 evaluation criteria.	

Signature(s)

- □ *New Hardware or Significant Change to Existing Hardware:* By signature below, the researcher has determined that the critical crash test(s) for this device was (were) conducted in accordance with MASH-16 criteria. The researcher has determined that no additional crash tests are necessary to determine MASH-16 compliance.
- ⊠ *Non-significant Change to Existing Hardware:* By signature below, the researcher has determined that the modification to existing hardware is deemed non-significant.

Researcher Name:	Sana Moran, E.I.T.
Researcher Signature:	Sana Moran
Company:	Texas A&M Transportation Institute
Address:	3135 TAMU
City, ST Zip:	College Station, TX 77843-3135
Country:	USA

TTI Crash Testing Performed: 🗌 Yes (lab signature required) 🖾 No (lab signature not required)

Laboratory Name:	
Laboratory Signature:	
Address:	
City, ST Zip:	
Country:	
Accreditation Certificate Number and Dates of Current Accreditation Period:	

Attachment A

Detailed Drawing of the Oregon F-Shape Concrete Median Barrier



