1200 New Jersey Ave., SE Washington, D.C. 20590

In Reply Refer To: HSST-1/B-131A

Mr. Adrian Bullock Highway Care Callow Hill Business Park Ledbury, Herefordshire HR8 2PZ United Kingdom

For

Dear Mr. Bullock:

This letter is in response to your December 29, 2015 request for the Federal Highway Administration (FHWA) to review a roadside safety device, hardware, or system for eligibility for reimbursement under the Federal-aid highway program. This FHWA letter of eligibility is assigned FHWA control number B-131A and is valid until a subsequent letter is issued by FHWA that expressly references this device.

Decision

The following devices are eligible, with details provided in the form which is attached as an integral part of this letter:

BarrierGuard 800

Scope of this Letter

To be found eligible for Federal-aid funding, modified roadside safety devices should meet the crash test and evaluation criteria contained in the National Cooperative Highway Research Program (NCHRP) Report 350. However, the FHWA, the Department of Transportation, and the United States Government do not regulate the manufacture of roadside safety devices. Eligibility for reimbursement under the Federal-aid highway program does not establish approval, certification or endorsement of the device for any particular purpose or use.

This letter is not a determination by the FHWA, the Department of Transportation, or the United States Government that a vehicle crash involving the device will result in any particular outcome, nor is it a guarantee of the in-service performance of this device. Proper manufacturing, installation, and maintenance are required in order for this device to function as tested.

This finding of eligibility is limited to the crashworthiness of the system and does not cover other structural features, nor conformity with the Manual on Uniform Traffic Control Devices.



Eligibility for Reimbursement

FHWA previously issued an eligibility letter for the roadside safety system described in your pending request. Your pending request now identifies a modification to that roadside safety system.

The original roadside safety device information is provided here:

Name of system: BarrierGuard 800
Type of system: Longitudinal Barrier

Date of original request: November 9, 2004

Date of original FHWA eligibility letter: November 30, 2004

FHWA Control number: B-131

Date of original request: December 18, 2006

Date of original FHWA eligibility letter: May 8, 2007

FHWA Control number: B-158

Date of original request; December 18, 2006

Date of original FHWA eligibility letter: May 8, 2007

FHWA Control number: B-159

Date of original request: December 18, 2006

Date of original FHWA eligibility letter: May 8, 2007

FHWA Control number: B-160

The pending modification(s) consists of the following changes:

1. Change company name and address

FHWA concurs with the recommendation of the accredited crash testing laboratory as stated within the attached form.

Full Description of the Eligible Device

The device and supporting documentation, including reports of the crash tests or other testing done, videos of any crash testing, and/or drawings of the device, are described in the attached form.

Notice

If a manufacturer makes any modification to any of their roadside safety hardware that has an existing eligibility letter from FHWA, the manufacturer must notify FHWA of such modification with a request for continued eligibility for reimbursement. The notice of all modifications to a device must be accompanied by:

- o Significant modifications For these modifications, crash test results must be submitted with accompanying documentation and videos.
- o Non-signification modifications For these modifications, a statement from the crash test laboratory on the potential effect of the modification on the ability of the device to meet the relevant crash test criteria.

FHWA's determination of continued eligibility for the modified hardware will be based on whether the modified hardware will continue to meet the relevant crash test criteria.

You are expected to supply potential users with sufficient information on design, installation and maintenance requirements to ensure proper performance.

You are expected to certify to potential users that the hardware furnished has the same chemistry, mechanical properties, and geometry as that submitted for review, and that it will meet the test and evaluation criteria of the NCHRP Report 350.

Issuance of this letter does not convey property rights of any sort or any exclusive privilege. This letter is based on the premise that information and reports submitted by you are accurate and correct. We reserve the right to modify or revoke this letter if: (1) there are any inaccuracies in the information submitted in support of your request for this letter, (2) the qualification testing was flawed, (3) in-service performance or other information reveals safety problems, (4) the system is significantly different from the version that was crash tested, or (5) any other information indicates that the letter was issued in error or otherwise does not reflect full and complete information about the crashworthiness of the system.

Standard Provisions

- To prevent misunderstanding by others, this letter of eligibility designated as FHWA control number B-131A shall not be reproduced except in full. This letter and the test documentation upon which it is based are public information. All such letters and documentation may be reviewed upon request.
- This letter shall not be construed as authorization or consent by the FHWA to use, manufacture, or sell any patented system for which the applicant is not the patent holder.
- If the subject device is a patented product it may be considered to be proprietary. If proprietary systems are specified by a highway agency for use on Federal-aid projects:

 (a) they must be supplied through competitive bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with the existing highway facilities or that no equally suitable alternative exists; or (c) they must be used for research or for a distinctive type of construction on relatively short

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sections of road for experimental purposes. Our regulations concerning proprietary products are contained in Title 23, Code of Federal Regulations, Section 635.411.

Sincerely yours,

Michael S. Griffith

Director, Office of Safety Technologies

Office of Safety

Enclosures Research and Historical Purposes Only

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Request for Federal Aid Reimbursement Eligibility of Highway Safety Hardware

	Date of Request:	29th December 2015	∩ New	
	Name:	Adrian Bullock		
ie i	Company:	Highway Care		
Submitter	Address:	Callow Hill Business Park, Ledbury, Herefordshire HR8 2PZ		
	Country:	UK		
	To:	Michael S. Griffith, Director FHWA, Office of Safety Technologie	is	

I request the following devices be considered eligible for reimbursement under the Federal-aid highway program.

Device & Testing Criterion - Enter from right to left starting with Test Level

1-1-1

System Type	Submission Type	Device Name / Variant	Testing Criterion	Test Level
'B': Rigid/Semi-Rigid Barriers (Roadside, Median, Bridge Railings)	Physical Crash Testing Fingineering Analysis	8arrierGuard800	NCHRP Report 350	TL4

By submitting this request for review and evaluation by the Federal Highway Administration, I certify that the product(s) was (were) tested in conformity with the NCHRP Report 350 (Report 350) and that the evaluation results meet the appropriate evaluation criteria in the Report 350.

Individual or Organization responsible for the product:

Contact Name:	Adrian Bullock	Same as Submitter 🔀	
Company Name:	pany Name: Highway Care Sam		
Address: Callow Hill Business Park, Ledbury, Herefordshire HR8 2PZ Same as Submitter [
Country: UK Same as Submitter			
Enter below all disclosures of financial interests as required by the FHWA 'Federal-Aid Reimbursement Eligibility Process for Safety Hardware Devices' document.			
No test laboratory financial interests i	was involved in this name change modification, and additions n BarrierGuard 800 or has any ownership of the product IP.	ally no test laboratory has any	

Purposes Only

Same as Submitter

PRODUCT DESCRIPTION

New Hardware or Significant Modification	Modification to Existing Hardware	Non-Significant		
BarrierGuard 800 has existing B-160. This barrier system is a wide (at the base) being join the BarrierGuard 800 system	made up of thin wall stee ed together to create a lo	l hollow step profile : ongitudinal barrier wa	sections 800mm high and	l 540mm
These letters are addressed t FHWA change the company Systems Inc are no longer ou Same as listed in the 'submitt from Lindsey Transportation	name and ad <mark>dr</mark> ess on the ir distributors in the USA ter' section of this form. V	e letters to us; the pro for this product, our Ve include with this f	prietors, Highway Care Li postal address for these le	td as Barrie etters is the
Brief explanations of the Barr B-131, for the crash tested Ba B-158, for the crash tested Ba Section fastened to the top o Minimum Deflection System B-159, for the crash tested Ba B-160, For the special Barrier required locations.	orierGuard 800 as a NCHR arrierGuard 800 MDS syst of the barrier and he syste (MDS). arrierGuard Gate.	P 350 TL-4/TL-3 syste em, as above but wit om anchored more fre	em h the addition of a rolled equently along its length	to create a
Since there is no physical cha needed for the change in cor			2016) that a lab certificati	on was not
	CRASH	TESTING		
By signature below, the Engir he Modification to Existing H Report 350 criteria.				
ngineer Name:				
Engineer Signature:	Ct	OK		
ddroce			Samo as Sub	mitter 🗀

Required Test Number	Narrative Description	Evaluation Results
4-10 (820C)		Modification has no effect on crashworthiness
S4-10 (700C)		
4-11 (2000P)		
4-12 (80005)		
4-20 (820C)		
S4-20 (700C)		
4-21 (2000P)		

Country:

A brief description of each crash test and its result:



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Submit Form

		rage 3 til 3
Required Test Number	Narrative Description	Evaluation Results
4-22 (8000S)		

Testing Laboratory's signature concurs	that these modifications are considered Non-Significant.
Laboratory Name:	
Laboratory Signature:	
Address:	Same as Submitter
Country:	Same as Submitter 🔲
Accreditation Certificate Number and Dates of current Accreditation period :	search
	Submitter Signature*:

ATTACHMENTS

Attach to this form:

- 1) Additional disclosures of related financial interest as indicated above.
- 2) A copy of the full test report, video, and a Test Data Summary Sheet for each test conducted in support of this request.
- 3) A drawing or drawings of the device(s) that conform to the Task Force-13 Drawing Specifications [Hardware Guide Drawing Standards]. For proprietary products, a single isometric line drawing is usually acceptable to illustrate the product, with detailed specifications, intended use, and contact information provided on the reverse. Additional drawings (not in TF-13 format) showing details that are relevant to understanding the dimensions and performance of the device should also be submitted to facilitate our review.

FHWA Official Business Only:

Eligibility Letter		
Number	Date	Key Words

Only



Date: June 2nd 2016

Dear Sirs

Barrier Systems Inc. which is now part of Lindsay Transportation Solutions LLC used to represent and distribute Highway Cares BarrierGuard 800 product range. Our agreement to distribute BarrierGuard 800 in the USA ended some time ago by mutual agreement.

Highway Care carried out product crash testing for the BarrierGuard 800 range of products, we as Barrier Systems then carried out the submittal to FHWA for eligibility letters for the BarrierGuard 800 product range.

I am aware that Highway Care has made a request to PHWA to have the letters re-issued in their name with their address. As we no longer represent this product range I do not have any reason for these letters not to be issued in Highway Cares name.

Please feel free to contact me at the numbers below if you have additional questions.

Sincerely:

Lindsay Transportation Solutions

Chini Samelers Storica

Chris Sanders Senior Vice President

Purposes

