**Instructions for**

**Application for Roadside Hardware**

**Federal Aid Eligibility Determination**

A separate application is required for each system or configuration submitted for evaluation.

Incomplete applications and/or erroneous information will result in the product being rejected for evaluation.

**Section 1: Applicant Information**

Provide all information required in this section. All DOT&PF correspondence will be directed to the contact person listed in this section.

**Section 2: Proposed Roadside Hardware Summary**

Describe the proposed roadside hardware.

**Section 3: Type of Determination Requested**

If the proposed new or modified roadside hardware has not received an Eligibility Determination for Federal aid eligibility from DOT&PF after December 31, 2019, choose “Initial”; otherwise, choose “Revised.”

**Section 4: Application Case**

DOT&PF classifies applications as belonging to one of five cases:

* Cases 1 and 2 are for new hardware.
* Cases 3 and 4 are for modified versions of existing, previously approved hardware.
* Case 5 is for unmodified, previously approved hardware.

You must select one case for your application.

**Case 1.** New Hardware has been MASH crash tested and has received an FHWA eligibility letter.

● DOT&PF may deem a device eligible for Federal aid based on an FHWA eligibility letter.

**Case 2.** New Hardware has passed full suite or recommended critical testing matrix of MASH crash tests, but does not have an FHWA eligibility letter.

● DOT&PF may deem a device eligible for Federal aid based on acceptable documentation from an ISO 17025 accredited testing facility indicating the device has passed a full suite or recommended critical testing matrix of MASH crash tests.

**Case 3.** Hardware is significantly modified from what passed MASH tests; or, MASH crash tests were not conducted; or, MASH-compliance cannot be determined.

● DOT&PF may require full suite of MASH tests or may deem it eligible for Federal aid based on acceptable documentation that determines that the modification does not affect the crashworthiness of the roadside safety hardware based on previous MASH crash testing and analysis. If necessary, crash testing may be required based on the engineering analysis.

**Case 4.** MASH tested hardware is modified (non-significant).

● DOT&PF may deem a device eligible for Federal aid based on engineering judgment with acceptable documentation.

**Case 5.** An NCHRP 350-compliant device for which a MASH-compliant replacement does not exist; or, a MASH-compliant device exists but does not meet the State’s needs; or, the device is a temporary work zone device manufactured on or before December 31, 2019 and still within its normal service life.

● DOT&PF may deem an NCHRP 350-compliant device eligible for Federal aid.

Note: The distinction between significant and non-significant modifications is clarified in the April 9, 2018 FHWA Memorandum *ACTION: Evaluating a State DOT’s Process to Determine Roadside Safety Hardware Crashworthiness on the National Highway System (NHS)*:

A modification that adversely affects the crashworthy performance of roadside safety hardware based on the crash testing criteria in AASHTO MASH is deemed to be significant. The determination of significance should be based on engineering analysis. A State DOT may choose to have an accredited crash testing lab make this determination. If a State DOT determines that there has been a significant modification to a previously tested roadside safety hardware device, then the relevant manufacturer should retest the device in accordance with AASHTO MASH criteria.

**Section 5: Certification**

All parts of the certification section are required.

**Section 6: Documentation**

IMPORTANT: Submit supporting documents in a searchable .pdf format. Submit video files in .mp4 or .avi format.

Use the form to describe the supporting documentation included with this application. Copy and paste additional rows and pages if needed.

Column A. Select one (1) Type from the drop down box.

If selecting **Accredited Facility Product**, add a short description underneath, for example:

*Successful Crash Tests*

If selecting **Other**, add the specific document underneath, for example:

*Specifications*

*MSDS Data*

*Product Literature*

*Pictures*

*Drawings*

*Installation Instructions*

Column B. Add the official title of the document (for example: Eligibility Letter HAS-10/B-133 March 1, 2005) and the name of the file (for example: 2018.11.19 Letter from TTI.pdf).

Column C. Indicate key aspects of the document, for example:

*MGS longitudinal barrier at 31” height passed NCHRP 350 TL-3 test with steel post (W6x9, 6’ long), Wood Blocks Offset – (6”x12”x14”), Spacing (6’ 3”)*

***Acceptable Documentation Definition***

Acceptable documentation may include:

* Work products of ISO 17025 accredited crash test facilities using any of the following evaluation methods:
	+ Documented successful crash testing concentrating on a full suite or critical test(s) for new hardware or modifications to existing hardware
	+ Computer modeling and simulations
	+ Other testing methods including dynamic tests
	+ Engineering analysis including review of previous research
	+ Compatibility with existing roadside hardware and Alaska specific performance requirements
* FHWA-issued eligibility letters pertaining to a specific system or system modification.
* Reports from an accredited crash-test facility documenting performance of the specific system or modification under review.
* NCHRP report that covers the specific system or modification under review.
* Written engineering analysis performed by an accredited crash-test facility or by a professional qualified to make eligibility determinations.

Additional forms of documentation may be acceptable or required on a case-by-case basis as determined by DOT&PF.

**Application for Roadside Hardware**

**Federal Aid Eligibility Determination**

**1. Applicant Information**

|  |
| --- |
|  |
| **Organization Name** |
|  |  |
| **Contact Name** | **Title** |
|  |  |  |
| **Contact Phone (Office)** | **Contact Phone (Cell)** | **Email** |

**2. Proposed Roadside Hardware Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **System / Device Name**  | **Testing Criterion** | **Test Level** |
| Choose an item. |  | Choose an item. | Choose an item. |

|  |
| --- |
| **DOT&PF INTERNAL USE ONLY** |
| **Standard Plan Number:** |  | Check Box if Not Applicable [ ]  |
| **Application #:**  |  |

|  |
| --- |
| **Questions?** Contact Mary McRae at Alaska Department of Transportation and Public Facilities:(907) 465-1222DOT.RHEP@alaska.gov |

|  |  |  |
| --- | --- | --- |
| **Alaska QPL Reference Number if applicable:** |  |  |
| **Is the proposed roadside hardware proprietary or generic?** *Select one.* | [ ] Proprietary | [ ] Generic |
| **If hardware is proprietary, is the Applicant the Manufacturer or a Vendor?** | [ ] Neither | [ ] Manufacturer | [ ] Vendor |
| **If applicant is not the Manufacturer, provide Manufacturer contact information:** |  |
|  | **Manufacturer Name** |
|  |  |
|  | **Manufacturer Contact** |
|  |  |
|  | **Manufacturer Phone** |
|  |  |
|  | **Manufacturer Email** |

|  |
| --- |
| **Describe the proposed roadside hardware, including primary features, benefits, restrictions on installation, and appropriate uses.** *Insert text here. Response box will expand as needed.* |

|  |
| --- |
| **Has the proposed roadside hardware been used in Alaska previously? If so, describe where, when, and any problems or adverse issues encountered during installation or maintenance.***Insert text here. Response box will expand as needed.* |

**3. Type of Determination Requested**

*Select only one box.*

|  |  |  |
| --- | --- | --- |
| [ ]  Initial Determination |  |  |
| [ ]  Revised Determination  | Original application #number(s): |  |

**4. Application Case**

*Indicate which case you are applying under (select only one).*

[ ]  **Case 1.** New hardware has been MASH crash tested and has received FHWA eligibility letter.

[ ]  **Case 2.** New hardware has passed full suite or recommended critical testing matrix of MASH crash tests, but does not have an FHWA eligibility letter.

[ ]  **Case 3.** Hardware is significantly modified from what passed MASH tests, MASH crash tests were not conducted, or MASH compliance cannot be determined.

[ ]  **Case 4.** MASH-tested hardware is modified (non-significant).

[ ]  **Case 5.** An NCHRP 350-compliant device for which MASH-compliant replacement does not exist; or, a MASH-compliant device exists but does not meet the State’s needs; or, the device is a temporary work zone device manufactured on or before December 31, 2019 and still within its normal service life.

**5. Certification**

I certify that, to the best of my knowledge and belief, the information contained in this application is true, correct, and complete at the time of its submission. I agree to notify the State of Alaska, in writing, immediately in the event that any information submitted with this application changes, becomes obsolete, or is deemed unreliable.

|  |  |
| --- | --- |
| **Signature:**  |  |
| **Printed Name:**  |  |
| **Organization and Title:**  |  |
| **Date:** |  |

**6. Documentation in Application Packet**

*Copy and paste additional rows if needed.*

|  |  |  |
| --- | --- | --- |
| **Column A: Type** | **Column B: File and Document Titles** | **Column C: Key Findings or Description** |
| Other. Please describe:Example | *Manufacturer TB.pdf*Manufacturer’s 2018 technical brief | Material properties |
| Choose an item. |  |  |
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