



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR
CRASH ATTENUATOR, TAILGATE MOUNTED

SERIES NO. 281-000

REV. 3/5/2025

EQUIPMENT SPECIFICATION 281-000D

GENERAL

This specification sets forth the minimum requirements for a dump truck tailgate mounted crash attenuator.

Equipment shall be new, a production model of current manufacture, and must meet all state and Federal safety and emission standards in effect at time of order.

REPRESENTATIVE SPECIFICATIONS

A Valtir Safe-Stop SS180M attenuator mounted on a Safe-Stop TMA dump truck tailgate mount, (MASH TL3 approved) or approved equal with appropriate options and standard features, was used to develop these specifications and establish equivalency evaluation criteria.

Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. For evaluation purposes, bidder's proposing an exception/equivalent option/feature to those specified herein, may be required to provide manufacturer/product information (catalogue sheets, detailed specifications, pictures, etc.). This information will be evaluated against the minimum requirements of this specification. Proposed submittals that are determined to not be equivalent to the established criteria will be rejected.

LOUISIANA AUTHORIZED DEALER(S)

Proposed item(s) must be from a manufacturer who has at least one (1) authorized dealer within the State of Louisiana where parts and service can be obtained. Authorized dealer(s) must have properly trained technicians plus all other resources necessary to perform warranty and repair services in complete accordance with the manufacturer's requirements. A letter certifying the ability to meet this requirement, inclusive of the company name(s) and address(es) of the Louisiana authorized dealer(s), should be supplied with the bid submittal and may be required prior to award.

DELIVERY & ACCEPTANCE

Vendor shall perform a test run of each unit to verify that all features and capabilities are operating properly at time of delivery. Documentation of testing may be required prior to acceptance by the Department.

Unit(s) must be delivered completely assembled (including all components, accessories, etc.) and ready for operation without any additional preparation including, but not limited to, ensuring all fluid levels are at their full mark, fuel tank(s) is full, all necessary lubrication has been performed, etc.

Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Noted defects and/or nonconformance findings may

be corrected by the vendor. Corrections must be completed and approved by the Equipment Engineer or his representative prior to final acceptance.

EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION:

1. Dealer's Service Policy
2. Owner's/Operator's Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
3. Service Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
4. Build Sheet(s) – as applicable
 - a. One (1) Hardcopy
 - b. Build sheets should be writing in plain language (not company specific codes) and include, at a minimum, all standard & optional features of the delivered unit.

NOTE: Invoices will not be processed for payment until the unit(s) have been inspected by the Equipment Engineer or their representative and deemed in compliance with the specifications.

BID SUBMITTALS

Any additions, deletions, or variations from the specifications should be noted in the "Bidder's Exceptions" page of this specification. Exceptions that are noted to be less than a minimum requirement will not be accepted.

Any additions, deletions or variations from the manufacturer's standard published specifications should be noted on the "Bidder's Exceptions" page of this specification. Unless otherwise noted, any items appearing in the manufacturer's standard published specifications furnished by the Bidder are assumed to be included in the Bidder's submittal.

Bidder should note on their submittal any installation(s) to the equipment that will be performed by the vendor instead of the manufacturer.

Failure to note any specification exceptions, manufacturer specification alterations, and/or vendor installations prior to award may result in rejection of the equipment at the time of delivery.

THE NUMBER OF DELIVERY DAYS AFTER RECEIPT OF ORDER (ARO) MAY BE USED AS A FACTOR IN THE AWARD.

EQUIPMENT SPECIFICATIONS

NOTICE TO BIDDERS

Bidder should review the detailed "Equipment Specification" completely and respond to the compliance question at the end of each section by marking "X", in the space provided, for "Yes" or "No". Mark "Yes" to indicate that the equipment bid meets the section exactly as specified. Mark "No" if there are exceptions to any part of that section. Exceptions/deviations to any part of the specification are to be detailed on the "Bidder's Exceptions" page of this specification.

IN ORDER TO BE CONSIDERED FOR AWARD, BIDDER SHOULD RETURN THIS SPECIFICATION, COMPLETED IN FULL, WITH THEIR BID SUBMITTAL.

Note: All Values listed below are minimums unless noted otherwise.

1. Performance

- 1.1. The attenuator must be tested and certified by an ISO 17025 accredited laboratory to meet or exceed all AASHTO MASH Test Level 3 (TL-3) requirements for truck and trailer mounted attenuators. In order to be considered responsive for this solicitation, testing and certification must be successfully completed prior to award. Documentation may be required.

Comply: ____ Yes ____ No

2. Tailgate Mounted Attenuator

2.1. Design

- 2.1.1. The attenuator shall have progressively collapsing modular components which can be replaced in successive stages depending on the impact severity, for lowest repair costs and easy parts replacement.
- 2.1.2. The attenuator must be sufficiently wide to prevent potential vehicle pocketing at the non-cushioned truck support region
- 2.1.3. Impact aluminum cartridges shall prevent intrusion of moisture, and the interior material of the cartridges must not deteriorate if exposed to water.
- 2.1.4. Positioning of the attenuator from the travel mode to deployed mode shall be accomplished hydraulically with a self-contained power unit having controls located both in the truck cab and at the rear of the truck.

2.2. Dump Truck Tailgate Mount

- 2.2.1. Designed for quick installation on the tailgate of a dump truck
- 2.2.2. Tailgate mount shall consist of the following components
 - 2.2.2.1. A space frame
 - 2.2.2.2. Two (2) tailgate hangers
 - 2.2.2.3. Two (2) tailgate retaining clips
 - 2.2.2.4. Two underride struts
 - 2.2.2.5. Two (2) turnbuckle assemblies
- 2.2.3. Designed to fit on the tailgate of a dump truck with a minimum gross vehicle weight (GVW) of 16,000 lb.
- 2.2.4. Tailgate mounting system shall allow for adjustment to compensate for tailgate heights from 5.25 to 8.3 ft. and tailgate thickness from 3 to 4.5 inches.

2.3. Accessories

- 2.3.1. Four wheeled storage jacks built in to allow the attenuator to be rolled/stored when removed

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2.3.2. Must include uprights and brackets for mounting optional 48" X 96" arrow board (described below)

2.3.3. All identification lighting, reflective tape and other standard safety features are to be included

Comply: ____Yes ____No

3. Optional – Arrow Board

3.1. The attenuator, if requested, shall have a 48" X 96" TRAFCON arrow board (25 Par 46 LED lamps, 12 preset patterns) or approved equal, for permanent installation on the trailer-type crash attenuator described above

3.2. Arrow board shall have powered raise/lower feature with wireless remote control as well as wireless remote control for pattern selection.

Comply: ____Yes ____No

4. Operation and Training

4.1. Upon request by a DOTD District, vendor shall provide an informal, hands-on, manufacturer-authorized maintenance and operational demonstration. Demonstrations shall be held at up to nine (9) different district locations throughout the State.

Comply: ____Yes ____No

BIDDER'S EXCEPTIONS

Instructions: Bidder should note all exceptions in space provided below. List the detail number from the aforementioned specification in the column to the left and the exception in the column to the right. Responses may be typed or hand-written. Handwritten responses must be legible. If additional space is needed, please print a duplicate copy of this sheet. "Bidder's Exceptions" page(s) should be returned with the bid submittal.

Examples:

1.6	Engine has 325 horsepower
1.18.3	Batteries have 2000 CCA combined.
2.2.8	Crossmembers are 4" channel on 12" centers.

**Spec./Detail
Reference**

Exception
