COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3080-11

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 630.08.03.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Zone, Mobil Impact Attenuator

PART 1

Product name: Vorteq TL-3 Trailer TMA

Product category: TC\Crash Cushion, Temporary\Trailer Mounted Attenuator

Product representative (name & address):
Attn: Roger N. Egan
Interwest Safety Supply, Inc.
195 South Navajo Street
Denver, CO 80223
Phone: (303) 733-8447 FAX: (303) 733-8664

Manufacturer (name & address):
Attn:
Energy Absorption Systems, Inc.
35 East Wacker Drive
Chicago, IL 60601
Phone: (312) 467-6750 FAX: (312) 467-9625

Web-site address: www.energyabsorption.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Vorteq TL-3 Trailer TMA (truck mounted attenuator) is an innovative attenuator efficiently designed to meet both the mandatory and optional crash tests of NCHRP 350 TL-3. It is easy to operate, light weight, and attaches to all types of host vehicles with a standard pintle hook and 7 pin electrical connector. Acceptable host vehicle weight is 9960 lbs. to infinite weight. Length of 22.9 ft, width of 92 in., height of 30.5 in., and total weight of <1300 lbs. No modifications are required of the host vehicle. The Vorteq implements multi-stage, tube-in-tube energy absorbing technology that inwardly shapes the steel tubing. This significantly reduces debris scatter thus reducing the potential for secondary accidents. The tube-in-tube design, along with the collapsible forward X-brace provides structural stability and ensures many years of dependable performance.

Restrictions, (installation and/or use):

Use of the product, (be specific to CDOT highway activities only):
The Vorteq TL-3 Trailer TMA provides protection against dangerous impacts when performing highway maintenance or construction operations.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Super fast attachment means you have full TMA protection in less than a minute. The open frame design means inspection and maintenance is quick and easy. The unique open frame design provides TL-3 impact protection at a competitive price. CDOT can save money and provide its workers protection from dangerous impacts. It's a trailer, so you can safely and affordably provide TMA protection to more of your fleet, including specialty type vehicles.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- [x] CDOT : Standard Specifications Section 630
- [ ] ASTM :
- [ ] AASHTO :
- [x] FHWA : NCHRP 350, TL-3
- [ ] other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : FHWA Letter of Acceptance HSSD/CC-104 (February 8, 2008)
- [x] other : E-TECH Testing Serves, Inc. (January 2008)

State DOT Approvals, (current documentation required):

Sample submitted: [ ] yes [x] no [ ] n/a | Materials Safety Data Sheets (MSDS): [ ] yes [x] no [ ] n/a

Notes/Additional Comments
A sample Vorteq could be made available if CDOT requires it to evaluate the product completely.