COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3078-11

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

Material code: 630.07.01.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Zone, Barrier (Temp)

PART 1

Product name: Vulcan Barrier

Product category: Traffic Control\Traffic Barrier, Temporary\N/A

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.)

Vulcan Barrier is a portable longitudinal barrier that meets NCHRP 350 TL-3 as a longitudinal redirecting barrier. It is available in effective lengths or sections of 4 meters, 8 meters, or 12 meters. Vulcan Barrier has an installed length is 13.5 ft., system width of 21.5 in., system height of 32 in. The weight per module is 871 lbs. Vulcan uses a vertical steel pin to interlink each module allowing the system to follow curves up to 6 degrees per 4 meter segment. Vulcan can be deployed as a free standing barrier system and is designed to be used with a variety of end treatment options, such as the Triton CET System. Optional casters can be installed to simplify deployment and movement. The lightweight and stackable design allows up to 160 meters to be transported on one truck, offering a huge savings when compared to traditional concrete barriers.

Restrictions, (installation and/or use):

Use of the product, (be specific to CDOT highway activities only):

Vulcan Barrier can be deployed to provide positive protection for workers in a construction zone.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

CDOT will benefit from Vulcan Barrier's light weight compared to concrete, making Vulcan ideal for applications on weight sensitive structures such as bridge decks. Its portability and mobility will also save CDOT money compared to concrete.

With the Vulcan Transfer Attachment, the barrier can be moved laterally up to 12 feet to enable a full lane width to be added or taken away during construction.

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

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO :
- ☒ 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 :
- ☒ other : FHWA Letter of Acceptance HSA-10/B-134 (February 14, 2005)
- ☒ other : E-TECH Testing Serves, Inc. (December 2004)

State DOT Approvals, (current documentation required):

Sample submitted: ☐ yes ☒ no ☐ n/a

Materials Safety Data Sheets (MSDS): ☐ yes ☒ no ☐ n/a

Notes/Additional Comments

A sample Vulcan Barrier could be made available if CDOT requires it to evaluate the product completely.