COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3075-11

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: Quest System	Product category: Traffic Control\Crash Cushion, Temporary\Impact Attenuator, Temp
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	Web-site address: www.energyabsorption.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

The Quest System is a simple redirective, non-gating crash cushion that has been completely tested and successfully passed the NCHRP 350 test level two and three. It consists of a series of W-beam fender panels supported by diaphragms with an innovative integrated trigger mechanism at the nose that releases a front assembly during impacts to absorb the energy of impact. The system is designed to telescope rearward during head-on impacts to absorb the energy of such an impact, and to redirect vehicles during side angle impacts. The system provides protection for hazard widths ranging from 24" to 36". The Quest is 17' 7" long in the TL-2 configuration, and 23' 6" long as a TL-3 unit. Transitions options include: to New Jersey Safety Barrier, W-Beam, and Concrete Median Barrier.

Previously referred to as the Quest 70/100 System.

Restrictions, (installation and/or use):

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

The Quest System is intended to be used as a temporary crash cushion in the work zone to protect concrete or steel barrier ends.

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

The Quest System is designed for fast and easy installation. It comes fully assembled from the factory and is ready to be installed using only 30 anchors. The Quest System is also available with a driveable pile anchoring system for high speed installations in soil or asphalt.

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 : FHWA Letter of Acceptance HSA-10/CC-87B (October 27, 2006)
- ☒ other : E-TECH Testing Serves, Inc. (July 2006)(August 2006)
- ☐ other :

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 Quest System could be made available if CDOT requires it to evaluate the product completely.