COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2867-13

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

Material code: 630.04.01.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Zone, Electronic Flagger

PART 1

Product name: W1-AG

Product category: TC\Traffic Control Enhancement\AFAD

Product representative (name & address):
Attn: Steve Stolz
IntelliStrobe Safety Systems
PO Box 9187
Springfield, MO 65801-9187
Phone: (417) 883-7720 FAX: (417) 883-7730

Manufacturer (name & address):
Attn:
IntelliStrobe Safety Systems
PO Box 9187
Springfield, MO 65801-9187
Phone: (417) 883-7720 FAX: (417) 883-7730

Web-site address: www.flaggersafety.com

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

W1-AG (AFAD Signal System) is an Automated Flagger Assistance Device. The complete W1-AG AFAD is comprised of two portable devices and one transport trailer. The height of each unit is 7'6" compacted and 10'6" extended, with a width of 18" and a depth of 24". Each device houses an integrated controller, battery, and warning alarm system, and is controlled by a handheld transceiver; they have flat-free tires for ease of mobility.

The signal head consists of a red 12-inch L.E.D. light and a yellow 12-inch L.E.D. light. The Automatic Safety Alarm System is a dual 100 watt 125 decibel siren. Each unit has a gate arm assembly that is 7' x 2 1/2" x 1" and is coated with reflective tape of alternating red & white stripes.

FCC: Complies with Part 90. Radio: 2 watt transmitter / receiver UHF 453.325-468.00 MHz

Restrictions, (installation and/or use):

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

Temporary traffic control per 2009 MUTCD Section 6E.04, where one flagger controls traffic from a safe distance.

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

The W1-AG is the safest alternative to traditional flagging. It allows a single flagger to control traffic through a work zone while minimizing the flaggers' direct exposure to traffic by allowing them to control traffic from a safe distance. A 125-decibel siren sounds when the work zone is violated, letting workers know to move out of harm's way and in most cases causing the violating motorist to immediately stop. The operator can also manually activate the intrusion alarm if needed.

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

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO :
- ☒ FHWA : 2009 MUTCD Section 6E.04
- ☒ other : NCHRP Report 350 Approval #: HSA-10/WZ-195 (December 1, 2004)

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : NCHRP Report 350 Approval #: HSA-10/WZ-195 (December 1, 2004)
- ☒ other : Texas Transportation Institute (TTI) Report Number: FHWA/TX-12/0-6407-1 (October 2011)

State DOT Approvals, (current documentation required):

Louisiana, Missouri, Oregon, Pennsylvania

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments