COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3538-12

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: Remote Operated Safety Attendant (ROSA)

Product category: TC\Traffic Control Enhancement\AFAD

Product representative (name & address):
Attn: Kurt Poole, Denver Contact @ 303-898-6400
Roundspring Technologies, Inc.
8712 W. Farm Road 124
Springfield, MO 65802
Phone: (417) 849-0300 FAX:

Manufacturer (name & address):
Attn: Kurt Poole
Roundspring Technologies, Inc.
8712 W. Farm Road 124
Springfield, MO 65802
Phone: (417) 849-0300 FAX:

Web-site address: www.rosausa.com

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

ROSA is an Automated Flagging Assisted Device (AFAD) Category 4 compliant, traffic control device with a 5 year parts warranty. Overall height: (in use) - 7'2", (transport) 53", weight including battery: 180 lbs., base measurement: 24" square, 12V lead acid glass mat battery - weight: 60lbs., on-board digital smart charger, digital volt meter, military grade electronics, secure remote transmitter with adjacent channel protection, plug & play modular components, USDOT LED lighting, solid state flasher, terminal block solid wiring, MUTCD compliant 3m Diamond Grade STOP/SLOW sign, other approved reflective materials, balanced handles and dolly system, high torque gear motor, steel direct drive shaft with pvc sign post, high-contrast/visibility finish, steel hub casters, 4 point leveler legs, built-in protective cap storage, on-board level, control panel.

Restrictions, (installation and/or use):

Must be unloaded by two people or one person and a ramp; one person needed to position. Operator should be in line of sight and within 100 feet of unit(s).

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

ROSA (AFAD) is to be used in place of a human being for the purpose of stopping traffic through highway maintenance work zones.

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

ROSA's endearing public image and intrinsic value will encourage traffic awareness, for both young and old, through Public Relations opportunities. Our "Fallen Flagger" program honors your lost ones with a memorial placard placed prominently on ROSA herself. Greater conspicuity and a secure remote transmitter with adjacent channel protection, allows the "Flagger" to remain in the "SAFE ZONE" up to 100 feet away. With our 5 year parts warranty, 3 year no proration battery warranty, and shipping included in the price, ROSA saves money. ROSA's compact design, easy set-up, and military grade electronics help to provide a superior work environment.

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

- [x] CDOT : Standard Specifications, Section 630.09
- [ ] ASTM :
- [ ] AASHTO :
- [x] FHWA : (AFAD) Category 4
- [x] other : MUTCD 6E.04, 2009

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

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : E-TECH Testing Services, Inc. (August 2012)
- [ ] other :

State DOT Approvals, (current documentation required):

Sample submitted: [x] yes [ ] no [ ] n/a

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

Notes/Additional Comments

Samples reviewed in person by CDOT Safety and Risk Team on May 22, 2012 lead by K.C. Matthews and including Randy Reyes, San Lee, Ken Nakao, and Mark Gocha.