COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3376-11

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: iCone

Product category: TC\Traffic Control Enhancement\AFAD

Product representative (name & address):
Attn: Ross D. Sheckler
iCone Products LLC
620 Old Liverpool Road
Liverpool, New York 13088
Phone: (315) 626-6800 FAX: (315) 626-6787

Manufacturer (name & address):
Attn: Ross D. Sheckler
iCone Products LLC
620 Old Liverpool Road
Liverpool, New York 13088
Phone: (315) 626-6800 FAX: (315) 626-6787

Web-site address: www.iconeproducts.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
iCone is a remotely operated, autonomous, traffic monitoring device. Operates a radar sensor to detect traffic speed and volume. Communicates across either cellular or satellite networks for redundancy and to avoid cellular drop-out. The device is housed in a standard traffic drum making it MUTCD compliant and is NCHRP-350 Cat 2 certified. The device is operated with a single switch and data is accessed via an open format web-site or can alternatively be streamed to a client's server.

Restrictions, (installation and/or use):

Use of the product, (be specific to CDOT highway activities only):
Used for work-zone traffic monitoring and the establishment of queue warning systems. Has also been used for strategic speed enforcement activities.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
The iCone allows for low-cost, low-skill traffic monitoring for temporary events such as work-zones. Multiple iCones allow for queue detection and travel time calculations and the system is capable of operating portable message signs and managing a smart work-zone.

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

- [x] CDOT : Standard Specification, Section 630.09
- [ ] ASTM :
- [ ] AASHTO :
- [x] FHWA : NCHRP-350 Cat 2
- [ ] other :

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

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : Calspan Corporation (10-30-2007)
- [x] other : SRF Consulting Group, Inc. (11-30-2010)

State DOT Approvals, (current documentation required):
Oregon

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

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

Notes/Additional Comments