Mr. John Reynolds  
Chief Engineer  
Work Zone Safety Products  
14817 Rosetown Ave.  
Fontana, CA 92336  

Dear Mr. Reynolds:

In your letter of April 10, 2009, you requested the Federal Highway Administration (FHWA) acceptance of the WZ Deluxe Tri-Pod temporary sign stand as a crashworthy traffic control device for use in work zones on the National Highway System (NHS). You requested acceptance of the temporary sign stand for use with the following sign substrate material: 1/2 inch thick plywood, 0.125 inch thick aluminum, 2 mm and 3 mm aluminum laminate, corrugated plastic, and roll-up material. Your request for acceptance is based on the performance of the generic tri-pod sign stand accepted in FHWA letters WZ-240 and a similar tri-pod stand in WZ-207. Accompanying your letter were the FHWA Office of Safety Design forms that included a drawing and a detailed description of the WZ Deluxe Tri-Pod. Drawings of the WZ Deluxe Tri-Pod are enclosed for reference. You requested that we find the WZ Deluxe Tri-Pod acceptable for use as a Test Level 3 device on the NHS under the provisions of the National Cooperative Highway Research Program Report 350 "Recommended Procedures for the Safety Performance Evaluation of Highway Features".

This letter acknowledges FHWA's acceptance of your request. The original completed forms have been modified by the addition of the FHWA acceptance letter number and the date of our review. The forms will be posted on our Web site in the near future.

Sincerely yours,

David A. Nicol, P.E.  
Director, Office of Safety Design  
Office of Safety

Enclosures
Contact Info

Petitioner / Developer Name and Address:
Work Zone Safety Products Inc.
14817 Rosetown Ave. Fontana, California 92336

I hereby certify that the device(s) covered by this Acceptance Letter meet(s) the crash
worthiness test and evaluation requirements of the FHWA and NCHRP Report 350.

Signature

Telephone #
(909) 266-1453

Email Address
john@workzonesafetyproducts.com

Laboratory / Engineer Name and Address
John Reynolds
14817 Rosetown Ave. Fontana, California 92336

☐ I hereby certify that the testing that supports this Acceptance Letter was conducted in accordance with NCHRP Report 350 guidelines, that the device(s) tested is/are accurately described on this form, and that the test results indicate that the device meets all applicable NCHRP Report 350 evaluation criteria.

☑ I have evaluated the requested modifications to these devices previously found acceptable by the FHWA in Acceptance Letter WZ-242 and hereby certify that, in my opinion, the modifications do not adversely affect the crash performance of the devices. I also certify that these devices are accurately described on this form.

Signature

Telephone #
(909) 587-8942

Email Address
john@workzonesafetyproducts.com

Keywords:

Type of Device (See page 3)
Tripod Sign Stand
Composition of Sign or Rail substrate (See Page 3)
Roll-up / Fabric (with fiberglass spreaders – aluminum or steel spreaders are not allowed)
Thickness of substrate (inches): 0.5
Height of sign from the ground (inches), if applicable: (See Page 3)
Low: 12 to 18 inches above the pavement

Flags and or lights present during test? Indicate number of each:
# of flags: 0  # of lights: 0  Weight of lights: ea.

Device Name
Deluxe Tripod Sign Stand

Detailed Desc. Of Device, Materials, sizes, Fasteners, Substrates Foundation, Aux. Features Ballast, etc.
(May be attached on separate page(s))
The "Deluxe Tri-Pod" is a "triangular footprint" of a "tri-pod portable sign stand with a steel upright support measuring 1.25 inches square with a wall thickness of 0.070 inches. A 1" inch steel inner mast extends out to a total height of 73 inches supporting a 48" x 48" diamond sign at approximately 13 inches above the pavement. The mast is supported on three 1.25 inch square steel folding legs which form an upper joining "heart plate" which is attached to the telescoping inner mast.
### Mandatory Attachments

**Attachment # 1:** Test data summary page(s)
- Attach. #1a  Test #
- Attach. #1b  Test #
- Attach. #1c  Test #
- Attach. #1d  Test #

### Alternative
**Attachment # 1:** Description and discussion of modification(s) to crash tested and/or accepted device.

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**Date:** 04/09/2009

**Attachment # 2:** PDF drawing(s) of device(s)
- Attach. #2a  Drawing Title: Deluxe Tripod Stand
  - Drawing #: 2200-00
- Attach. #2b  Drawing Title: Heart Plate Assy
  - Drawing #: 93100
- Attach. #2c  Drawing Title: Mast
  - Drawing #: 93220
- Attach. #2d  Drawing Title: Mast Assy
  - Drawing #: 93200
- Attach. #2e  Drawing Title: Front Leg
  - Drawing #: 93X10
- Attach. #2f  Drawing Title: Back Leg
  - Drawing #: 93310
- Attach. #2g  Drawing Title:
  - Drawing #: 93310
Please select from the following Keywords for "Type of Device":

Longitudinal Channelizing Barricade
Curb (Curb channelizer system with or without road tubes or other channelizers)
Drum
H-Footprint Sign Stand
X-Footprint Sign Stand
Trailer Mounted Signs (Does not include arrow boards or variable message signs or other
  Category 4 trailer mounted devices.)
Automated Flagger Device (not trailer mounted)
Tripod Sign Stand
Type I Barricade
Type II Barricade
Type III Barricade
Vertical Panel
Intrusion Detector
Ballast         (Action relates to ballast on one or more devices)
Channelizer     (Individual units unlike cones, road tubes, or drums)

Please select from the following Keywords for "Sign Substrate":

Roll-up / Fabric (with fiberglass spreaders – aluminum or steel spreaders are not allowed.)
Plywood
Aluminum – Solid
Aluminum – Laminate
Corrugated Plastic
Extruded Plastic
Waffleboard Plastic
Wood / Lumber

Please select from the following Keywords for "Height of Sign":

The distance to the lowest point on the sign is:

Low     12 to 18 inches above the pavement
Mid-A   20 to 24 inches above the pavement
Mid-B   25 to 36 inches above the pavement
Mid-C   37 to 59 inches above the pavement
Tall    60 to 71 inches above the pavement
Oversized 72 inches and taller
Please note the following standard provisions that apply to FHWA letters of acceptance:

- Our acceptance is limited to the crashworthiness characteristics of the devices and does not cover their structural features, or conformity with the Manual on Uniform Traffic Control Devices.
- Any changes that may adversely influence the crashworthiness of the device will require a new acceptance letter.
- Should the FHWA discover that the qualification testing was flawed, that in-service performance reveals unacceptable safety problems, or that the device being marketed is significantly different from the version that was crash tested, it reserves the right to modify or revoke its acceptance.
- You will be expected to supply potential users with sufficient information on design and installation requirements to ensure proper performance.
- You will be expected to certify to potential users that the hardware furnished has essentially the same chemistry, mechanical properties, and geometry as that submitted for acceptance, and that they will meet the crashworthiness requirements of FHWA and NCHRP Report 350.
- To prevent misunderstanding by others, this letter of acceptance shall not be reproduced except in full. This letter, and the test documentation upon which this letter is based, is public information. All such letters and documentation may be reviewed at our office upon request.
- If the subject of this letter is a patented device it is considered "proprietary." The use of proprietary work zone traffic control devices in Federal-aid projects is generally of a temporary nature. They are selected by the contractor for use as needed and removed upon completion of the project. Under such conditions they can be presumed to meet requirement "a" given below for the use of proprietary products on Federal-aid projects. On the other hand, if proprietary devices are specified by a highway agency for use on Federal-aid projects they: (a) must be supplied through competitive bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with existing highway facilities or that no equally suitable alternative exists or; (c) they must be used for research or for a distinctive type of construction on relatively short sections of road for experimental purposes. Our regulations concerning proprietary products are contained in Title 23, Code of Federal Regulations, Section 635.411, a copy of which is enclosed.
- This Acceptance Letter shall not be construed as authorization or consent by the Federal Highway Administration to use, manufacture, or sell any patented device for which the applicant is not the patent holder. The Acceptance Letter is limited to the crashworthiness characteristics of the candidate device, and the FHWA is neither prepared nor required to become involved in issues concerning patent law. Patent issues, if any, are to be resolved by the applicant.