Florida Department of Transportation

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GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
INTERIM SECRETARY

January 26, 2007

Mrs. Leslie McCarthy, PhD, P.E.
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 990
Proposed Specification:9901000

Dear Mrs. McCarthy:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Temporary Traffic Control Devices.

This change was proposed by Cheryl Adams of the Roadway Design Office to remove an obsolete item, Safety Warning Transmitter.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/dr
Attachment
cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

TEMPORARY TRAFFIC CONTROL DEVICE MATERIALS.
(REV 12-11-06)

ARTICLES 990-10 and 990-11 (Pages 900 - 902) are deleted and the following substituted.

~~**990-10 Safety Warning Transmitter.**~~

~~**990-10.1 General:** Manufacturers providing the device described herein shall provide a certified test report to the Engineer indicating the device meets these specification requirements.~~

~~**990-10.2 Output Frequency:**~~

~~(1) 24.1 GH_z.~~

~~(2) Maximum Output Power; 25 milliwatts per square meter at 3 meters.~~

~~(3) Output Beam; 23 inches maximum vertical, 25 inches maximum horizontal beam width at 3dBC points, vertically polarized (if transmitter is horizontally mounted).~~

~~(4) Input Power; +11.0 to +16.0 volts DC. Negative ground, maximum current 0.75 amperes, except initial surge maximum of 1.5 amperes.~~

~~(5) Data Transmission; Either of two output messages selected depending upon speed of host vehicle relative to programmed threshold speed (stationary message and moving message). Capable of transmitting multiple advanced warning messages at least 2 miles.~~

~~(6) Threshold Speed; 10 mph.~~

~~(7) Field Programmability; Output messages may be programmed by PC or terminal using optional accessory cable.~~

990-~~11~~*10* Temporary Traffic Control Signals.

990-~~11~~*10*.1 General: Meet the physical display and operational requirements of conventional traffic signal described in the MUTCD for portable traffic signals. The standard includes but is not limited to the following:

(1) Use signal heads having three 12 inches vehicular signal indications (Red, Yellow and Green). Ensure there are two signal heads for each direction of traffic.

(2) The traffic signal heads on this device will be approved by the Department.

(3) Department approved traffic signal lamps will be installed in each section with the filament opening in an upright position. Other Department approved lighting sources will be installed in each section in accordance with the manufacturer's permanent directional marking(s), that is, an "Up Arrow", the word "UP" or "TOP," for correct indexing and orientation within a signal housing.

(4) The masts supporting the traffic signal heads will be manufactured with the lowest point of the vehicular signal head as follows:

(a) Eight feet above finished grade at the point of their installation for "pedestal" type application or

(b) Seventeen to 19 feet above pavement grade at the center of roadway for "overhead" type application.

(5) The yellow clearance interval will be programmed three seconds or more. Under no condition can the yellow clearance interval be manually controlled. It must be timed internally by the controller as per Department specifications.

(6) The green interval must display a minimum of five seconds before being advanced to the yellow clearance interval.

(7) The controller will allow for a variable all red clearance interval from 0 to 999 seconds.

(8) Portable traffic control signals will be either manually controlled or traffic actuated. Indicator lights for monitoring the signal operation of each approach will be supplied and visible from within the work zone area.

(9) When the portable traffic control signals are radio actuated the following will apply:

(a) The transmitter will be FCC Type accepted and not exceed 1 watt output per FCC, Part 90.17. The manufacturer must comply with all “Specific limitations” noted in FCC Part 90.17.

(b) The Controller will force the traffic signal to display red toward the traffic approach in case of radio failure or interference.

(10) The trailer and supports will be painted construction/maintenance orange enamel in accordance with the MUTCD color.

(11) The device will meet NEMA environmental standard. The test report certified by an independent laboratory will be provided.

(12) Ensure the certification number is engraved or labeled permanently on equipment.

(13) Ensure the device has an external, visible, water resistant label with the following information: “Certification of this device by the Florida Department of Transportation allows for its use in Construction Zones Only.”

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