Scope
This procedure describes the methods used to evaluate arrow panels (Standard Specification §729-15) and Portable Variable-Message Signs (PVMS) (Standard Specification §729-16) for inclusion on the Department’s Approved List of Materials and Equipment.

Submittals
- The manufacturer must submit the trailer mounted arrow panel or PVMS test results from the AASHTO National Transportation Product Evaluation Program (NTPEP) demonstrating the arrow panel meets the requirements of this specification and the MUTCD.

- The manufacturer must provide a Trailer-Mounted or Truck-Mounted Series C Arrow Panel or PVMS for initial field testing by the Department at the Main Office in Albany, New York.

- The manufacturer must certify that the provided arrow panel or PVMS meets the material and performance requirements in Standard Specifications and in the National Manual on Uniform Traffic Control Devices and the New York State Supplement (MUTCD).

Approval
- The review process requires a minimum of 30 calendar days. Field testing will include evaluating arrow panel or PVMS operation on different lightness conditions for brightness, legibility, and angularity for a period not less than one day and not more than one week.

- Arrow Panels and PVMSs considered for inclusion on the Approved List shall have a certification that they meet the requirements of standard specification and MUTCD, include NTPEP test results demonstrating they meet the requirements of standard specification and satisfactory initial field test results.

  o Arrow Panels and PVMS having acceptable certifications, NTPEP test results confirming they meet Standard Specification and MUTCD requirements, as well as have satisfactory initial field test results will be placed on the Approved List.

  o Trailer-Mounted and Truck-Mounted Series C Arrow Panels and PVMS having acceptable certifications and satisfactory initial field test results, but do not have NTPEP test results may be provisionally placed on the Approved List for a maximum of one year. Arrow Panels and PVMS provisionally on the approved list may be evaluated for up to one year until it has NTPEP test results demonstrating they meet Standard Specification and MUTCD requirements. PVMS not achieving NTPEP test results within one year of provisional listing will be removed from the Approved List.

- PVMS on the approved list that repeatedly have poor evaluations will be removed from the approved list.
ARROW PANEL/PVMS EVALUATION FORM

Date: ____________ Time: _____ □ AM □ PM  Reviewer: ____________________________

Contract D# ___________________________ Manufacturer: ____________________________

Location: _____________________________ Model: ____________________________
(On the Approved List: □ Yes □ No)

**Arrow Panel**

- □ Diesel Powered
- □ Solar Powered
- □ Incandescent Bulb Display
- □ Light Emitting Diode (LED) Display
- □ Full Matrix PVMS Arrow Display

Type A Truck-Mounted 1.2 x 0.6 m (48 x 24 in)
Legible 800 m (1/2 mile) from Arrow Panel  □ YES □ NO

Type B Truck-Mounted 1.5 x 0.75 m (60 x 30 in)
Legible 1.2 km (3/4 mile) from Arrow Panel  □ YES □ NO

Type C Trailer-Mounted 2.4 x 1.2 m (96 x 48 in):
Legible at ROAD WORK 1 MILE sign - 1.6 km (1 mile) from Arrow Panel  □ YES □ NO
Legible at LANE CLOSED 1/2 MILE sign - 800 m (1/2 mile) from Arrow Panel  □ YES □ NO
Legible at LANE DROP sign - 300 m (1,100 ft) from Arrow Panel  □ YES □ NO

**Portable Variable Message Sign (PVMS)**

- □ Light Emitting Diode (LED)
- □ Hybrid Flip Disk

Legible at least 275 meters (900 ft) from all approaching travel lanes  □ YES □ NO

Comments:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Forward completed evaluations to the Office of Technical Services, Materials Bureau.