



U.S. Department
of Transportation

**Federal Highway
Administration**

Washington Division

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March 25, 2011

HDE-WA/WAP492/435.6

Ms. Paula J. Hammond
Secretary of Transportation
Department of Transportation
Olympia, Washington

Attention: Pasco Bakotich III, PE

**Statewide Use of Neenah Roadway and
Bridge Deck Drain**

Dear Ms. Hammond:

We have reviewed the documentation submitted with your March 8, 2011, letter requesting FHWA approval of the statewide use of Neenah Roadway and Bridge Deck Drains.

This product is intended to be used statewide, in part, on federally funded projects. We concur with your certification that the R-3923, R-3943, R-4005, R-4014, R-4015, and R-4016 drains from Neenah Foundry Company are currently *“the only known bridge deck drains that can be installed in either new or existing bridge decks without major revisions to the slab reinforcement or making revisions to the standard bridge deck depth and design used by WSDOT.”* Further, *“Neenah series deck drains are the only drains that meet WSDOT’s current water collection requirements. Drains from other manufacturers have a much smaller surface area and would require up to four times as many drains to equal the capacity of the Neenah design.”*

We approve the use of these products on Federally funded projects for the 2011-2013 biennium.

Please contact Don Petersen at (360) 534-9323 if you have any questions about this action.

Sincerely,

DANIEL M. MATHIS, P.E.
Division Administrator

By: Donald A. Petersen
Division Safety/Design Engineer

cc: Kent Kalisch, MS: 47329; Casey Kramer, MS: 47329



March 3, 2011

TO: Pasco Bakotich
E&EP/Design - 47329

Approval FHWA



THRU: Kent Kalisch
E&EP/Design - 47330

**Approval:
State Design Engineer**

FROM: Ron Lewis/Scott Sargent 
PHONE: 705-7396/705-7753



SUBJECT: Statewide Blanket Proprietary Item Request

Description:

The Bridge and Structure's office is requesting blanket approval to use the following materials statewide for the 2011 – 2013 biennium.

Proprietary Item:

Manufacture: Neenah Foundry Company
R-3923 Heavy Duty Bridge Drain Frame with Bolted Grate
R-3943 Heavy Duty Bridge Scupper
R-4005-A2 Heavy Duty Scupper Frame and Grate (for temporary condition)
R-4014 Series Overhead Scupper Drain, Bolted Grate
R-4015 to R-4016 Series Roadway and Deck Drains

Justification:

The R-3923, R-3943, R-4005, R-4014, R-4015 and R-4016 drains listed above from Neenah Foundry Company are currently the only known bridge deck drains that can be installed in either new or existing bridge decks without major revisions to the bridge slab reinforcement or making revisions to the standard bridge deck depth and design use by WSDOT.

The Neenah series deck drains are the only drains that meet WSDOT's current water collection requirements. Drains from other manufactures have a much smaller surface area and would require up to four times as many drains to equal the capacity of the Neenah design.

The Public Interest Finding is served by utilizing these drains, as they meet both hydraulic and bridge structural requirements:

- Reduces the number of drains needed, thereby reducing procurement/installation costs
- Increases safety for maintenance when cleaning is necessary by reducing the amount of time the crew is exposed to traffic. The drains with larger outlet pipe diameters will further reduce the necessity for maintenance crews to clean out the drains and drain lines.
- Reduces maintenance costs since fewer drains are needed
- Eliminates additional design costs for a site specific design to accommodate other drains.
- The Neenah drains can be installed in typical WSDOT bridge decks, eliminating extra forming costs or additional drain pipe.

Your earliest approval of this request is needed. If you have any questions, please call Scott Sargent.

RAL:tms
WSS
SF030311(766)

cc: Casey Kramer Hydraulics, 2A01