

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
MATERIALS CONTROL, SOILS & TESTING DIVISION  
MATERIALS PROCEDURE

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QUALITY ASSURANCE TESTING OF COATING PRODUCTS  
LISTED ON WVDOH APPROVED PRODUCT LISTS (APLs)

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**1. PURPOSE**

- 1.1 To establish a procedure to perform quality assurance (QA) testing on coatings products listed on MCS&T's approved product lists (APLs).
  - 1.2 To establish a procedure for maintaining a record of such information.
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**2. REFERENCED DOCUMENTS**

- a. WVDOH Specifications for Roads and Bridges, Section 711 Protective Coatings, Stains, and Traffic Paints.
  - b. WVDOH Specifications for Roads and Bridges, Section 601.13.3 Concrete Protective Coating.
  - c. WVDOH Specifications for Roads and Bridges, Section 707.16 Concrete Protective Coating Materials.
  - d. MP 711.00.20 Paint Testing Methods, most recent edition.
  - e. MCS&T Division Approved Product Lists (APLs) for coating products.
  - f. National Transportation Product Evaluation Program (NTPEP).
  - g. Northeast Protective Coating Committee (NEPCOAT).
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**3. QUALITY ASSURANCE TESTING PROCEDURE**

- 3.1 The quality assurance (QA) testing shall be performed on each approved coating listed on any of MCS&T's APLs.

- 3.2 The QA testing shall be performed in MCS&T's Paint Laboratory and by MCS&T personnel.
- 3.3 The QA testing shall be performed every calendar year.
- 3.4 MCS&T shall obtain a sample of each approved product from the coating manufacturer.
- 3.5 The coating manufacturer shall supply a sufficient quantity of the product to perform all the required testing.
- 3.6 Each coating product shall be tested in accordance with the appropriate WVDOH Specification.
- 3.7 Each product shall be tested based on the testing requirements in the WVDOH Specifications.
- 3.8 The coating manufacturers will submit Safety Data Sheets (SDS) and Product Data Sheets (PDS) directly to MCS&T.
- 3.9 The coating manufacturers shall submit clearly marked samples, as well as, all required documentation for mixing and application directly to MCS&T.

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**4. QUALITY ASSURANCE HISTORICAL DATA**

- 4.1 MCS&T shall maintain a spreadsheet for the purpose of collecting historical data for each coating product tested.
- 4.2 The historical data for each coating product will be analyzed yearly to determine if each product continues to meet the specification requirements necessary to remain on our APLs.
- 4.3 MCS&T will store the spreadsheet in a ProjectWise folder located under the Environmental & Coatings Group's folder.

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**5. NTPEP TEST DATA**

- 5.1 MCS&T shall obtain NTPEP's test data for each product by using the DataMine function located on the NTPEP [website](http://www.data.ntpep.org)<sup>1</sup>.

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<sup>1</sup> <http://www.data.ntpep.org>

- 5.2 NEPCOAT uses test data from NTPEP to generate their Qualified Product List. [The NEPCOAT Website](#)<sup>2</sup>
- 5.3 Any product that uses NTPEP's test data to obtain APL approval shall be compared to MCS&T's test data each year.

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**6. MCS&T'S QUALITY ASSURANCE TESTING**

- 6.1 MCS&T will use the spreadsheet data, as described in Section 4, to perform QA testing analysis.
- 6.2 The purpose of the QA testing is to determine if each of the coating products listed on our APLs are still satisfying our specification requirements.
- 6.3 Products that meet the specification requirements, based on MCS&T's test data, will remain on the APL.
- 6.4 Products that do not meet the specification requirements, based on MCS&T's test data, shall go through an internal investigation.

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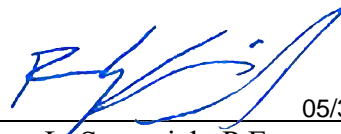
**7. MCS&T INTERNAL INVESTIGATION**

- 7.1 MCS&T shall perform an internal investigation on any coating product that does not meet the specification requirements necessary to remain listed on our APLs.
- 7.2 MCS&T shall run a second test on any sample that fails. If MCS&T's test data from the second test passes, then the product will remain listed on our APLs.
- 7.3 However, if MCS&T's test data from the second test does not pass, then NTPEP shall run a second test on the sample. If NTPEP's test data from the second test passes, then the product will remain on our APLs.
- 7.4 If the second test data from both MCS&T and NTPEP fails, then the product will be removed from our APLs.
- 7.5 The findings from the internal investigation shall be kept with the historical data spreadsheet, described in Section 4.

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<sup>2</sup> <https://www.nepcoat.org>

- 7.6 MCS&T shall notify the company about the removal of their product from our APLs. The company must wait one-year from the date of the removal before they will be allowed to resubmit their product to MCS&T.
- 7.7 The company must resubmit their product through MP 106.00.02 Procedure for Evaluating Products for use in Highway Construction. MP 106.00.02 requires HL-468 Form to be submitted to MCS&T. This form is available at the WVDOH MCST [Webpage](#)<sup>3</sup>.



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MP 711.00.22 Steward – Environmental and Coatings Section  
RLS:P

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<sup>3</sup> <https://transportation.wv.gov/highways/mcst/Pages/tbox.aspx>