

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

MATERIALS PROCEDURE

CRITERIA TO APPROVE PLAIN REINFORCING STEEL BARS USED IN CONCRETE

1. PURPOSE

- 1.1. To establish procedures for qualifying manufactures of plain steel reinforcing bars acceptable for use on projects.
 - 1.2. To establish a procedure for maintaining a record of such information.
 - 1.3. To establish a procedure for transmitting such information to the WVDOH Personnel and contractors on projects.
-

2. SCOPE

- 2.1. This procedure shall apply to all manufacturers who produce plain uncoated reinforcing steel bars.
-

3. APPLICABLE DOCUMENTS AND DEFINITIONS

- 3.1. WVDOH Specifications, Section 709.1
 - 3.2. American Association of State Highway and Transportation Officials |(AASHTO) Section M31
 - 3.3. [AASHTO Product Evaluation and Audit Solutions \(APEAS\)](#)¹.
 - 3.4. MP 106.00.02 - Procedure for Evaluation of New Products for Use in Highway Construction
-

4. ACCEPTANCE PROCEDURE

- 4.1. With each shipment of plain rebar material to a project, the rebar manufacturer or distributor shall provide shipping documents which contain an Approved Source List (APL) source lab number reflecting materials meeting quality specified by the WVDOH.
-

5. ACCEPTANCE PROCEDURE (APPROVED SOURCE)

- 5.1. For a new manufacturer to be considered as an approved source of plain rebar, the manufacturer must comply with the following requirements.
- 5.2. The manufacturer is to complete form HL-468 attainable from the [WVDOH Webpage](#)² and submit it to the Materials Control, Soils and Testing (MCS&T) Division new products email address, indicating intention to be included on the APL as an approved source manufacturer of plain rebar.

¹ <https://transportation.org/product-evaluation-and-audit-solutions/>

² <https://transportation.wv.gov/highways/mcst/Pages/MP-100s.aspx>

- 5.3. A current certificate indicating membership and compliance with the APEAS requirements.
- 5.4. After the APEAS compliance documents have been evaluated, the Division will conduct quality assurance (QA) sampling at the source to verify compliance to AASHTO M31. This Division QA sampling and testing shall be performed prior to source approval and once a year thereafter. Division QA sampling shall consist of 3 bars with a minimum length of three feet, from 5 separate heats, all sampling shall be unbiased and sampled randomly from the most recent stocks or straight from production. Sampling may also be done from a project location, should material be available at the project site.
- 5.5. If laboratory testing meets or exceeds the requirements of AASHTO M31, the manufacturer will be assigned a seven-digit approved source number and be placed on the APL for plain rebar. This approval will be active for one year.
- 5.6. If testing outlined in Section 5.4 is performed on material supplied by a manufacturer who is not on the APL, and the testing does not meet the requirements of AASHTO M31, or the manufacturer is not in compliance with APEAS requirements, the manufacturer will not be added to the APL.
- 5.6.1. If testing outlined in Section 5.4 is performed on material supplied by a manufacturer who is on the APL, and the testing does not meet the requirements of AASHTO M31, or the manufacturer is not in compliance with APEAS requirements, the manufacturer will be removed from the APL. Also, any material from that manufacturer that is supplied to WVDOH projects, after the date on which it was determined that the AASHTO M31 or APEAS requirements were not met, will be rejected from those projects.
- 5.6.2. If the manufacturer informs the MCS&T Division in writing that issues causing noncompliance with APEAS requirements and/or failure to meet the requirements of AASHTO M31 have been resolved, the manufacturer may request a reevaluation of their facility. That reevaluation shall be in accordance with sections 5.2 thru 5.5. If the results of that reevaluation confirm requirements have been met, the manufacturer will be added to the APL.
- 5.7. If a manufacturer is currently listed on the APL for plain rebar, a yearly renewal evaluation of that manufacturer shall be conducted consisting of the above sections 5.3 thru 5.6.

6. DOCUMENTATION REPORT

- 6.1. The APL for “plain” reinforcing steel bars “rebar” used on projects may be updated at any time with the addition of a new manufacturer, or with the removal of a manufacturer.

- 6.2. A current APL of reinforcing steel bar manufacturers is available by accessing the current WVDOH [Approved Source Webpage](#)³.

Michael Mance Digitally signed by Michael
Mance
Date: 2024.07.25 15:21:15
-04'00'

Michael A. Mance PE,
Interim Director
Materials Control, Soils & Testing Division

MP 709.01.55 Steward – Metals Section
MAM:H

³ https://transportation.wv.gov/highways/mcst/Pages/APL_By_Number.aspx