METHODS OF SAMPLING AND TESTING
MT 404-22
METHOD FOR INSPECTING WOOD PRODUCTS
(*Montana Method*)

1 Scope

1.1 This method includes the inspection of all wood products in accordance with Standard Specification §706.04.3.

1.2 The primary responsibility for the inspection of wood products is assigned to the Inspector at the Materials Bureau.

2 Reference Documents

American Wood Protection Association (AWPA) Standards

A9 Standard Method for Analysis of Treated Wood and Treating Solutions by X-Ray Spectroscopy
M2 Standard for the Inspection of Preservative Treated Products for Industrial Use
M22 Standard for Third-Party Agency Evaluation of Inspection Data

MDT

Standard Specifications for Road and Bridge Construction
Detailed Drawings

3 Inspection Procedures

3.1 Pretreatment Inspection

3.1.1 Any wood products to be treated may be inspected in the white to determine its suitability for treatment.

3.1.2 In accordance with Standard Specification §706.01.03, wood products with worm holes and any staining due to fungus will be inspected in the white. Moisture content of intermountain Douglas fir will also be inspected in the white.

3.1.3 Treatment plants will provide the Materials Bureau at least 72 hours notice for inspection in the white.

3.2 After Treatment Inspection

3.2.1 The MDT Inspector will inspect the wood products after treatment in accordance with AWPA M2 Section 4.

3.2.1.1 Sample Set

A sample set will consist of 20 cores from each selected charge.

3.2.1.2 Sample Rate

MDT will collect sample sets from at least 50% of the charges designated for MDT projects.

3.2.1.3 Testing

Each sample set will be tested for preservative penetration and retention. Penetration and retention must meet the requirements in AWPA Standards U1 and T1, Commodity Specification A, B or D, Use Category 4A for the appropriate application of the material.

Penetration tests will follow the procedures in AWPA M2 Section 4. If more than 20% of the cores fail to meet penetration requirements, sampling will cease and all material in the charge will be

considered a failure.

Retention tests will follow the procedures in AWPA A9.

3.2.2 After inspection, all acceptable large timbers (class 4 utility poles, guardrail posts, pilings, sign posts, etc.) are individually stamped with the Circle (M) stamping hammer and each bundle is sealed with an inspection tag which denotes acceptance prior to shipment.

3.2.3 The acceptance of small items (fence posts, etc.) prior to shipment is indicated by inspection seals attached to each bundle.

4 Job Site Final Acceptance

4.1 MDT Field Personnel will conduct a final acceptance inspection to ensure the wood products were pre-inspected and are still in good quality.