



BUREAU OF MATERIALS MATERIALS PROCEDURES

MP NUMBER: 23-08
EFFECTIVE DATE: 07/01/2008

APPROVAL: Eileen Sheehy

FIELD INSPECTION OF TREATED TIMBER, LUMBER AND PILING

PURPOSE:

To establish a standard procedure for field inspection of treated timber, lumber and piling

SUPERSEDES:

Materials Procedure Number 23A – Dated 10/01/2001

REFERENCES:

Special Provisions, Supplemental Specifications, Standard Specifications, Addenda and Attachments
AASHTO Standard Specifications for Highway Bridges
AASHTO M 168 Structural Timber, Lumber and Piling
AASHTO M 133 Preservative and Pressure Treatment Process for Timber
American Wood Preservers Association Standards
ASTM D-25 Standard Specifications for Round Timber Piles
Standard Grading Rules for Southern Pine Lumber
Grading Rules for Western Lumber
Standard Grading Rules for Northeastern Lumber
Plywood Products Standard Handbook

FORMS:

LB-14 - Analysis of Miscellaneous Materials
LB-52 - Lumber and Timber Inspection Report
LB-88 - Sample Envelope
LB-296 - Notice of Noncomplying Material

INSTRUCTIONS:

I. Assignment Procedures

The Inspector shall receive from his/her supervisor the following:

- A. Name of treating plant, location, and time inspector is scheduled.
- B. Total linear feet, lengths, framing details and species of wood piles or poles to be inspected.
- C. Board feet measure, dimensions, grade, species and framing details of structural timber or lumber.
- D. A copy of the specifications and other pertinent data for the piles, structural timber or lumber to be inspected.
- E. A list of the required tests and measurements to be performed and samples to be taken and submitted to the Bureau of Materials.
- F. Measuring devices, hammer stamp, rubber stamp and increment boring tool.
- G. Type and number of certifications required.
- H. Name of project and job code to which inspection time and materials are to be charged.

II. Duties after arriving at treating plant

The Inspector shall:

- A. Make their presence known to the manufacturer's representative.
- B. Have piling and timber laid out to inspect for straightness, framing and quality (soundness, knots, shakes, etc.). Check dimensional lumber and timber which is stress graded to make certain it is stamped with the appropriate grade mark in accordance with the grading rules for the species specified.
- C. Mark piles inspected prior to treatment that comply with straightness and quality requirements on the tip end. (A second approval mark is made on the butt end after treatment if core samples indicate proper penetration of the preservative).
- D. If piles and timber have been treated, take boring to determine penetration of preservatives. (The number of core samples required is designated in the appropriate A.W.P.A. specifications). Sample borer cores from piles should be taken 10' +/- 1' from the butt end of each pile. Sample other pressure treated lumber and timber in accordance with A.W.P.A. Standard M2.

- E. If the treated piles comply with the specifications, mark the butt end with a hammer stamp.
- F. If in compliance with the specifications, mark treated timber and lumber with hammer stamp or seal if bundled. Mark untreated lumber with rubber stamp or seal.
- G. Obtain copy of the treating report from the producer.
- H. Record all pertinent dimensions, number of pieces and quantities of both approved and rejected materials. Upon return to the office enter data into database and print LB-52.
- I. Submit borings from treated wood to the laboratory. When requested by the supervisor, sample the preservative and submit to the laboratory. Print LB-14(s) and submit with sample(s). If a preservative sample is not submitted, obtain a certified chemical analysis of the preservative used from the producer.
- J. If assay test is witnessed at the treating plant laboratory record all assay results in lbs./cu.ft. Upon return to the office enter results in database and print completed LB-14.

III. Additional Duties

The Inspector shall:

- A. Complete Form LB-52, Lumber and Timber Inspection Report.
- B. Complete Form LB-296, Notice of Noncomplying Material.

IV. Authority and Responsibility

- A. Should any of the above inspection procedures or test results reveal noncompliance with the specifications, do not approve (stamp) piles and/or timber.
- B. Bring to the attention of their supervisor any uncertainties regarding the quality, dimensions, framing or treatment of the piles, timber or lumber. Document the discussion and the corrective action in diary.

V. Distribution of Forms

It shall be the Inspectors responsibility to ensure forms are distributed as follows:

<u>Form</u>	<u>Distribution</u>
LB-14	<ol style="list-style-type: none">1. Original - Laboratory2. Producer3. Wood Treating Company4. Supervisor - Drainage & Timber Group

- | | |
|--------|---|
| LB-52 | 1. Original - Bureau of Materials |
| LB-296 | 1. Original - Bureau Headquarters
2. Regional Materials Office |

Construction Projects

Form

Distribution

- | | |
|--------|---|
| LB-14 | 1. Original - Laboratory
2. RE
3. Materials Region
4. Contractor
5. Producer
6. Supervisor - Drainage & Timber Group |
| LB-52 | 1. Original - Laboratory
2. RE
3. Supervisor - Drainage & Timber Group |
| LB-296 | 1. Original - Bureau of Materials
2. Regional Materials Office
3. RE |