# IN-HOUSE PROCEDURE #

## PROCEDURE FOR VERIFYING L. A. ABRASION MACHINE

#### Item:

L. A. Abrasion Machine

### Purpose:

This method provides instructions for checking the critical dimensions and rotational speed of the L. A. abrasion machine and the mass of the steel balls used as charges.

### Inspection Equipment Required:

- 1. Steel rule readable to 1 mm
- 2. Stopwatch readable to at least 0.1 second
- 3. Scale readable to at least 1 g

#### Tolerance:

Equipment shall meet the dimensional tolerances specified in AASHTO T 96.

#### Procedure:

### L.A. ABRASION MACHINE

- 1. Determine if the drum is horizontal using a steel ball to check left-to-right roll.
- 2. Measure the inside diameter of the drum at the left and right edges to the nearest 1 mm.
- 3. Measure the width of the opening to the nearest 1 mm.
- 4. Measure the wall thickness at the left and right edge to the nearest 1 mm.
- 5. Measure the shelf width inside the drum to the nearest 1 mm.
- 6. Reset the counter to zero. Using the stopwatch, measure the number of revolutions in a 5 minute time period. Determine the revolutions per minute (RPM's).

# STEEL SPHERES

- 1. Measure the mass of each individual sphere to the nearest 1 g.
- 2. Measure the mass of the collective charges to the nearest 1 g.

