

## IN-HOUSE PROCEDURE # \_\_\_\_\_

### PROCEDURE FOR VERIFYING SIEVE SHAKERS

Item:

Mechanical Sieve Shaker

Purpose:

This method provides instructions for verifying the thoroughness of sieve shakers.

Inspection Equipment Required:

1. Sieves (typical stack : 3/4", 1/2", No. 4, No. 8, No. 16, No. 50, No. 100, pan, lid)
2. Scale, readable to at least 0.1 % of the sample mass

Tolerance:

Sieve shakers shall shake a sample thoroughly so that after one minute of continuous hand sieving, less than 0.5 % by mass of the total original sample passes any sieve.

Procedure:

1. Prepare a well-graded aggregate sample of adequate size based on the nominal maximum aggregate size as describe inn AASHTO T 27.
2. Record the mass of the total sample.
3. Sieve the sample for the typical amount of sieving time in the sieve shaker.
4. Remove sieve stack and hand-sieve each sieve for one minute, tapping the sieve against the opposite hand 150 times during the minute.
5. Record the mass of the material that passes the sieve during the one minute of hand-sieving.
6. Calculate the percent passing for each sieve during the one minute of hand-sieving.