IN-HOUSE PROCEDURE # _____

PROCEDURE FOR VERIFYING RAMMERS

<u>ltem</u> :
Rammer

Purpose:

This method provides instructions for checking the critical dimensions and mass of a rammer.

Inspection Equipment Required:

- 1. Caliper readable to 0.001 in. (0.025 mm) or better
- 2. Ruler readable to 0.1 in. (1 mm) or better
- 3. Scale readable to 0.01 lb. (1 g) or better
- 4. Protractor (for secular faces only)

Tolerance:

Equipment shall meet the dimensional tolerances specified in the applicable test method.

Procedure

- 1. Detach the rammer and guide rod from the machine or the guide sleeve. Measure the total mass of the rammer, guide rod, and hardware (everything that falls when compacting soil).
- 2. Measure the diameter of the circular face using the caliper. If using a sector face, measure the length of one side (radius), and the angle in degrees of the arc using the protractor.
- 3. Reassemble the rammer. Using the ruler, measure the drop height. For a manual rammer, pull the rammer up until it is in contact with the top of the guide sleeve. Insert a ruler inside the sleve until it hits the rammer face. Measure to the bottom of the sleeve. For a mechanical rammer, measure the distance from the release point to the end point.
- 4. Measure the diameters of the vent holes at the top and bottom of the sleeve.
- 5. Check the results of a mechanical rammer according to ASTM D2168. Mechanical rammers must obtain results for maximum dry density within ± 2 % of a manual rammer.

