
ATTI - PERFORMANCE CHECKLIST

Field Technician

AASHTO T 355-22 In-Place Density of Asphalt Mixtures – Nuclear Method

Standardization

- SEC: 8.2* Standardization of the gauge is required at the start of each day.
- SEC: 8.2* Take standard counts in the same environment as the actual measurements.
- SEC: 8.2* Perform the standardization at least 30 feet away from other radioactive sources and clear of other items that may affect the count rate.
- SEC: 8.2.1* Turn gauge on and allow to stabilize according to manufactures recommendations.
- SEC: 8.2.2* Standard counts taken and recorded.
- SEC: 8.2.2* Determine if the standard counts are within the limits for normal operation in accordance with the gauge manufacturer.

Procedure Alternate Method 2

- SEC: 9.1* Select a relatively smooth and flat location where the gauge will be at least 10 feet away from large objects. Follow manufactures correction procedure when closer than 24 inches to any vertical mass or 12" from a vertical pavement edge. **Section 4.1.3** Radioactive sources must not be within 30 feet.
- SEC: 9.2.1* Use filler material to fill surface voids. Spread a small amount of filler material over the test site. Strike off excess with straightedge.
- SEC: 9.3.2.1*
- 9.3.2.6 Place the gauge on the test site parallel to the direction of travel of the rollers. Mark an outline of the gauge. Place in backscatter, take a 1-minute reading and record wet density. Rotate 180° in the footprint, take another 1-minute reading and record the wet density. If the difference is greater than (2.5 lb/ft³), retest. Report the average of the two readings.