

Chemical Ground Rod Maintenance Instructions

Recommended Maintenance Schedule

It is recommended that an inspection of the chemical ground rod(s) occur at least once a year. This can be done in conjunction with the recommended inspection and test of the overall grounding system. Conditions such as runoff from rain and snow, moisture content of the soil, height of the water table, and location of the ground grid can affect the frequency of these maintenance requirements.

Inspection and Refill Procedure

1. As a safety precaution, put on safety glasses, gloves and a dust mask.
2. Remove lid from ground test well. For the standard ground well, Part # 38-6627-00, remove bolt from lid then turn the lid counter-clockwise. Pull lid upward to expose the top of the rod.
3. Remove the threaded plug from the chemical ground rod by using a pair of channel locks or a straight bar.
4. Using a flashlight check the salt level in the rod. If the salts are lower than 20% of the length of the rod refill salts should be added. These can be ordered in convenient premixed bags for 10' vertical or 10'"L" shaped rods. (Part # 38-6651-10 or 38-6652-10) Order multiple bags for longer rods.
5. Slowly pour refill salt mixture up to the bury line, but below breather holes on the side of the rod. Some spillage is acceptable as this will lower the resistance of the surrounding soil over time.
6. Apply Anti-oxidant to the plug threads prior to replacement. This will make future removals easier. Replace plug and tighten.
7. Replace the ground test well lid. For the standard ground well, 38-6627-00, turn lid clockwise, replace the bolt and tighten.
8. Log inspection report, resistivity report and maintenance actions in your facility/site file.

