

MPI Magnet Audit Guide

1. Lock out/tag out the equipment above/below the magnet.
2. Open magnet for inspection and cleaning.
3. Clean magnet.
4. During inspection note any wear, cracks, or bad gaskets in the audit report. This can be done in the magnet description section on the first page.
5. In the magnet description be sure to describe where in the process the magnet is located.
 - a. Example – Magnet is located downstream from the hammermill and before the pelletizer mounted in a gravity chute. Must be able to catch smaller tramp metal.
6. If there is an ID plate on the magnet note the manufacturer and record the model/serial number.
7. Measure the magnets length, width, and depth. Make notes of how the magnet is mounted and measure the chute/transition/equipment the magnet is mounted in. Does the magnet cover the entire width of what its mounted in?
 - a. Example – 12" long x 6" tall x 4" deep plate magnet mounted in a 16" long x 8" wide chute.
8. Measure the reach out of the magnet with the pole tester.
 - a. Hold down the button on the pole tester while moving it closer to the magnet. When the tester beeps measure the distance from the magnet as accurately as possible.
9. Take one picture of the area/equipment the magnet is located on.
10. Take a second closer picture of the magnet its self (if there is any damage on the magnet point to it in the picture).
11. Pull tests.
 - a. Be sure the pull tester is set to MAX and LBS before beginning.
 - b. 1/2" ball is ideal – If a different size ball was used on the previous test use that ball instead.
 - c. If possible, hold the pull tester by the strap on the top of the tester. If not, be sure to not press any buttons on the pull tester while holding the body of the tester. Do not hold at the bottom of the tester where the pulling mechanism is, this can skew results.
 - d. Pull the tester away from the magnet as straight as possible, pulling at an angle can cause inaccurate readings.
 - e. Test 3 different locations on the magnet following the steps above and record results on the tablet.
12. Close the magnet.
13. Check your report before moving on and make sure you didn't miss any information.