**Risk(s):** *Inaccurate measurements on the cathodic protection system can lead to mitigation events not being initiated, which can lead to premature failure of anodes, and pipeline degradation.*

**Objective(s):** *Validate the cathodic testing results for NSP.*

**Scope:** Gas distribution and transmission cathodic data from *April 2021 – April 2022 in NSPM and NSPW.*

**Background:** *Cathodic testing results impact the decisions made about taking action to maintain a gas pipe. If it is discovered that a gas main has corroded beyond a certain level, then proper actions need to be taken by NACE certified individuals to properly address the issues within these pipes. This may involve covering holidays, replacing the sacrificial metal, replacing the pipe all together, or other methods of protection.*

**Audit Test Step and Results:**

1. Obtain the population of all points within the scope period with low reads from the Asset Compliance Management (ACM) system.
   1. Audit Services queried the data in ACM, see “Query” tab in DXXX-XXX
2. Select a random sample of points in step 3a
   1. Audit Services selected a sample of points from CP\_SECTIONS\_DOWN-NSPM and CP\_SECTIONS\_DOWN-NSPW that included the following metrics:
      1. Days Down that were below 365
      2. Days Down that were above 365
      3. All possible service centers, see Work Flow Checklist Updated for list of all service centers
      4. CP Section Types from both ANNUAL and 10 PERCENT
3. Determine if a work/service request or work order (WO) was created.
4. Tie the work/service request to the WO in SAP.
5. Ensure Service Center Operations is aware of the WO or that the service has been scheduled and/or completed.
6. Select a sample of completed WOs where service was completed. Determine if a second reading was performed.
7. Review the list of WOs and verify no work order is more than the remediation requirements set forth by Xcel Energy standards.
8. Select a sample of test points and verify the work was completed by contractors.

**Risk(s) Conclusion:** *Based on the overall testing performed for this area, enter the conclusion/opinion whether the risk for the objective being tested is being adequately managed. If a gap is identified, state where the risk is not managed properly.*