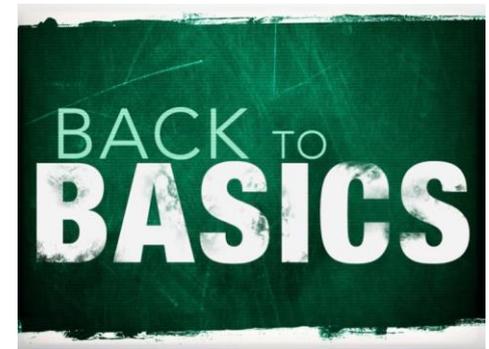


Non-Conformance & Non-Performance



Definitions

- **NonConformance (NC)**: pertains to the physical material or work not meeting specifications
- **NonPerformance of QMP (NP)**: pertains to insufficient actions executed under the requirements of QMP specifications.

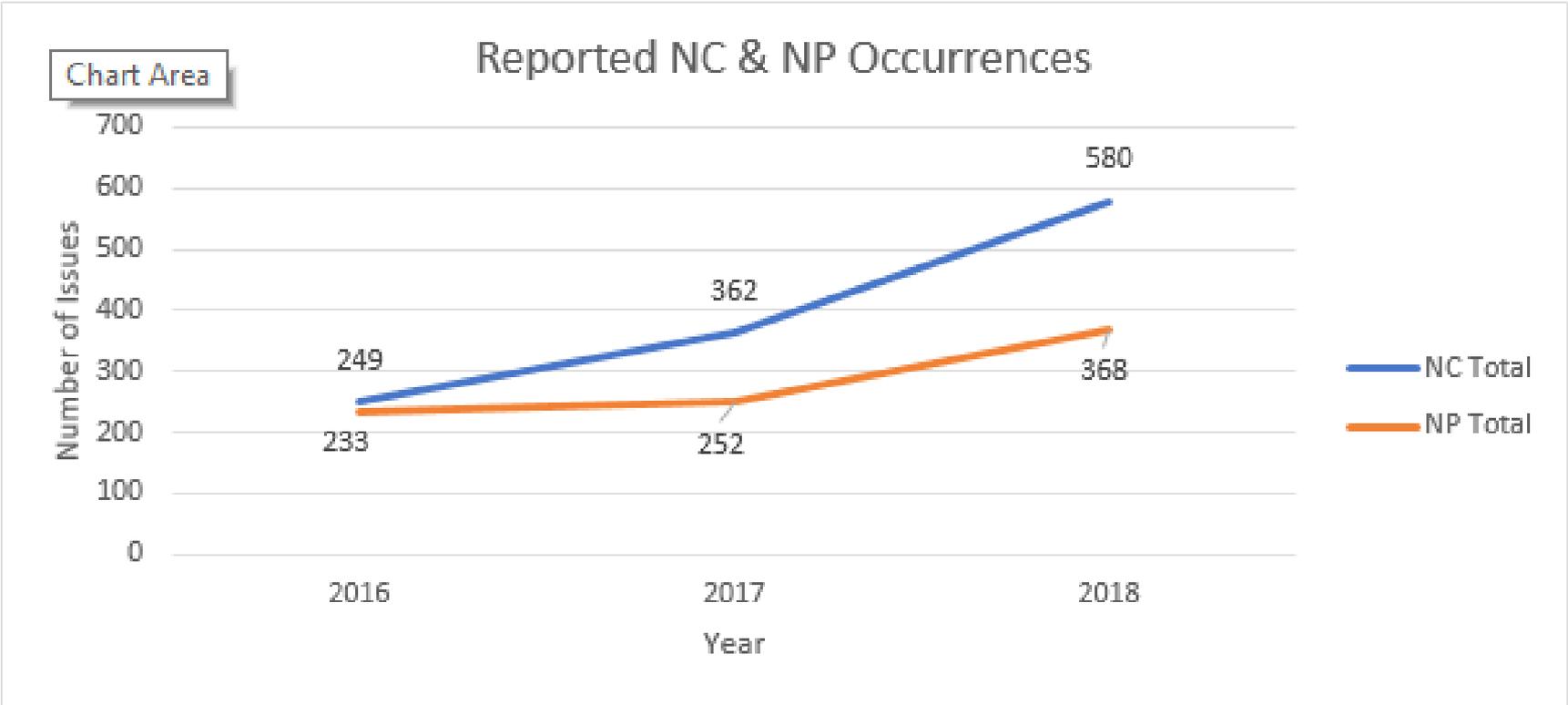


NC & NP Background

- ▶ Tracking statewide material NonConformance and NonPerformance of QMP
- ▶ Internal tool for quality assurance evaluations, for identifying trouble areas in need of improvement, and for ensuring consistency and fairness in addressing NC/NP issues within the regions and statewide.



NC & NP Trends



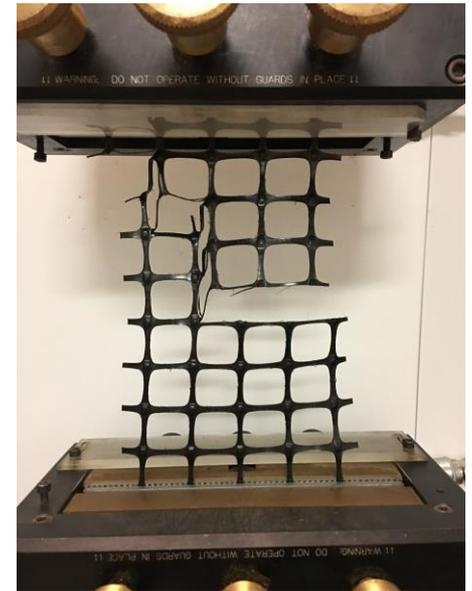
NC Examples - QMP Materials

- ▶ **Base Aggregate**
 - NC gradation
 - Low fractured faces
 - High plasticity or liquid Limit
- ▶ **Concrete**
 - High/Low air
 - High/low slump
 - Low strength
 - NC gradation
- ▶ **HMA**
 - High/low Air Voids
 - Low VMA
 - Low TSR
 - NC asphalt binder
 - Low Density (or high for SMA pavements)



NC Examples Non-QMP Materials

- ▶ Backfill
 - NC gradation, plasticity, or liquid limit
- ▶ Geosynthetics—Geotextile Fabrics or Geogrids
 - Low grab tensile strength, low puncture strength, etc.
- ▶ Document indicates wrong ASTM/AASHTO standard
 - PMCs should detect these and reject the material.
- ▶ Product not on a department APL
 - PMCs should detect and not allow material to be incorporated into the work



Primary NC Issues

- ▶ Concrete Masonry
 - High Slump
- ▶ Concrete Pavement
 - Low Air
 - High slump
- ▶ Aggregates
 - NC Gradation



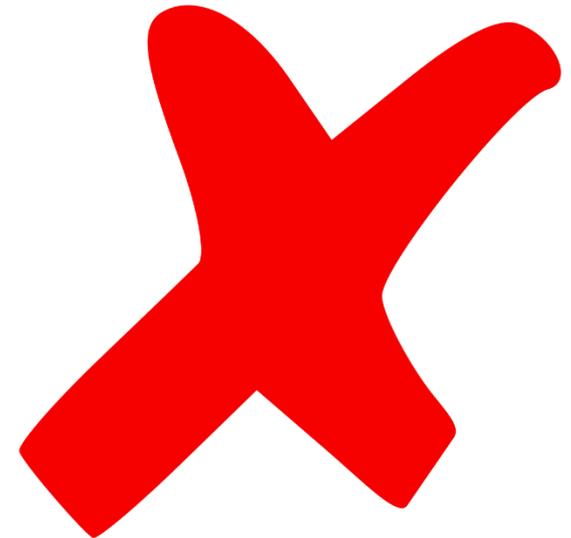
Disposition of NonConforming Material

- ▶ The disposition of NonConforming materials is the engineer's decision and should be based on sound engineering judgment.
- ▶ When engineers are faced with these difficult decisions, they should consult with subject-matter experts for guidance.



NonPerformance of QMP Examples

- ▶ Missed Sample(s) / Test(s)
- ▶ Wrong sample or test location (non-random)
- ▶ Improper documentation and/or reporting
- ▶ Insufficient WisDOT notification
- ▶ Non-certified sampler / tester
- ▶ Unqualified laboratory or equipment
- ▶ Improper sampling or testing method



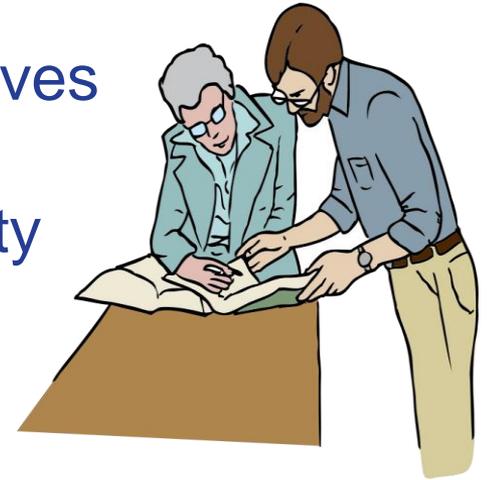
Primary NP of QMP is Missed Tests

- ▶ Various Reasons for missed Tests
 - Not familiar with the QMP specification
 - Improper tracking of quantities
 - Inaccurate estimate of quantities
 - Mix design change without notification.



QMP Disincentives

- ▶ NC and NP pay adjustments are administered by project staff
- ▶ Project staff must run all NC & NP disincentives through the regional materials engineer for regional consistency and statewide uniformity



Communication is Key

