**Current Validation Tool Error Checks/Functions – From Version 1**

**Initial Checks:**

1. **Tool Version Check** (Ensures that user is running the most up to date tool)
2. **Check for all expected fields**
   1. Identifies excess fields
   2. Identifies incorrect fields (type, name or length)
   3. Identifies missing required fields

**--->** A fail on any of these will cause the tool to fail and return message to user pertaining to the error observed…

**Pre-Cursor Test Functions:**

1. **checkCRS** (Checks if Coordinate Reference System is consistent with Parcel Initiative. )

**In-Cursor Test Functions:**

1. **checkGeometricQuality**
   1. Test records in dataset to ensure polys are w/in expected county envelope
   2. Tests for <Null> geometries & other oddities (slivers, corrupt geometries)
2. **checkNumericTextValue**
   1. Check if value provided is a valid number
   2. Fields: addnum, parcelfips, zipcode, zip4, cntassdvalue, lndvalue, impvalue, forestvalue, estfmkvalue, netprpta, prsprpta, assdacres, deedacres, gisacres)
3. **checkIsDuplicate**
   1. Looks for duplicate values in fields expected to have unique values (excluding ‘skip’ values)
   2. Fields: parcelid, taxparcelid
4. **checkDomainString**
   1. Check if value is in the acceptable domain list, if not, report to user.
   2. Fields: prefix, streettype, unittype, unitied, placename, suffix
5. **trYear**
   1. Check if taxroll year value provided is expected, old, future, other…
   2. Fields: taxrollyear
6. **streetNameCheck**
   1. Check if street name provided is in a list created from previous year cleaned data
   2. Fields: streetname
7. **zipCheck**
   1. Check if values are 5 digits in length and begin with a ‘5’
   2. Fields: zipcode
8. **impCheck**
   1. Verify value in field correct based on IMPVLAUE
   2. Fields: improved
9. **badChars**
   1. Check strings for unwanted/bad characters (/n, /r, etc)
   2. Fields: All fields with specified chars for each – in externalDicts.py file
10. **classOfPropCheck**
    1. Check propclass fields for acceptable domains & look for dups in single records
    2. Fields: propclass, auxclass
11. **matchContrib**
    1. Check CONAME, PARCELFIPS, PARCELSRC fields to ensure match & meet domain requirements
    2. Fields: coname, parcelfips, parcelsrc – collectively checked at same time against domains and one another…
12. **schoolDistCheck**
    1. Check values provided in schooldist & schooldistno field to ensure they are in domain list & represent the same district
    2. Fields: schooldist, schooldistno – collectively checked at same time against domains and one another…
13. **fieldCompleteness**
    1. Gets the total count of values that aren’t <Null> or ‘’
    2. Check: All fields not in passList
14. **fieldCompletenessComparison**
    1. Subtract totals from fieldCompleteness total for current year from last years totals
    2. Check: All fields not in passList