STE Data Loading Process

# Stage 1 - Convert data to single FGDB

1. Create a directory for the data set being loaded (in P:\Projects\09036\_MoE\_TEIMS\Working\Staging\_Area).
2. Put all source material in a Source\_Material directory.
3. If the source data is a FGDB, then copy it in as is (call it Stage\_1), if it is a coverage, create a Stage\_1 FGDB and load it there using the basic ArcCatalog tools.
4. The following items have been retired (check components are populated as below):
   1. TTTEX\_1, TTTEX\_2, TTTEX\_3 populated to TTTEX\_1A,B,C, etc.
   2. STTEX\_1 – 3
   3. SURF\_E1 – 3
   4. TSURF\_E1 – 3
   5. SSURF\_E1 – 3
   6. TTEX\_1 – 3

# Stage 2 – Standardize Attributes (By Data Set)

1. Create a staging feature class or geodatabase from the most recent template (called Stage\_2 in the local staging area). In this case we’re using the TEIS\_Master\_Long\_Table and the TEIS\_Project\_Details table.
2. Check to see if the feature classes have the correct fields relative to the templates.
   1. Use the Compare Fields tool (P:\Projects\09036\_MoE\_TEIMS\Working\TEIS\_Environment\Scripts\CompareFieldsNoAlias.py)
   2. Verify any issues with projection, geometry, etc. and fix. Tolerances will be fixed as we move the features below.
3. Create a field mapping and load to the templates in the Stage\_2 FGDB.
4. Be sure that the following fields are populated:
   1. BAPID – and that the BAPID is unique in the TEIS\_Project\_Details table. If not, assign a new BAPID.
   2. PROJ\_TYPE – and that the PROJ\_TYPE is in the Domain\_Project\_Types table. If the PROJ\_TYPE is TER, recalculate it to TIM, and if it is TERSOI recalculate to TIMSOI. This field has also been extended to 9 characters from 6.
   3. PROJ\_SCALE
   4. PROJPOLYID – This is a new item that must be created from the contents of the project identifier field (ECP\_TAG, TER\_TAG).
   5. PROJ\_STAT – should be set to “Boundary Only”, “Complete”, or another status based on the data set being loaded. See the Tools\_and\_Templates.gdb\Domain\_Project\_Status for allowable codes.
   6. Boudary\_Only\_Flag (BDRY\_ONLY) – should be set to “y” if project boundary is boundary only.
   7. TEIS\_ID will be unspecified.

What if there are both TER\_TAG and ECP\_TAG? – Not sure, hasn’t happened yet…

1. Verify that all polygons loaded (input count = export count).
2. Add metadata records to the TEIS\_Project\_Details table in STAGE\_2 FGDB.
3. Verify that the BAPIDs are unique across the TEIS\_Environment, or create a new one and document in the Misc\_BAPID\_Changes.

# Stage 3 – Combine Project Components (Entire Data Group)

1. Create the Stage\_3 FGDB from the same templates used to assemble the Stage\_2 FGDB data sets.
2. Append all of the Stage\_2 standardized data sets into a single set of feature classes (one long table, one project details table).
3. Run the TEIS\_Environment QC tools on these amalgamated feature classes.
   1. Most data issues will simply be flagged, and fixed at a later stage/date/phase/contract.

# Stage 4 – Fix Preliminary Issues

1. Copy Stage\_3 FGDB to Stage\_4 FGDB and apply fixes.
2. Fix any standard/systemic issues:
   1. Use the Standard\_Fixes python tool
      1. Many SURFM\_ST1, SSURFM\_ST1, TSURFM\_ST1, SURFM\_ST2, SSURFM\_ST2, TSURFM\_ST2, SURFM\_ST3, SSURFM\_ST3, TSURFM\_ST3 = 0
      2. Many GEOP\_ST1, GEOP\_ST2, GEOP\_ST3 = 0
      3. Run Repair Geometry if needed
   2. Any manual fixes required for this data (log fixes!)
   3. Rerun all QC tools and add more fixes as needed.

# Stage 5 – Filter Duplicate Projects

1. Copy the Stage\_4 FGDB to Stage\_5.
2. Remove any project data that is superseded in another data group. For example, if the current one has boundary only polygons, and another data group has full long table, then filter out (delete) the boundary only polygon at this stage.
3. Be sure to note which BAPIDs are removed, and why, in the log file.

# Stage 6 – Load to TEIS Environment

1. Append the Stage\_5 feature classes to the TEIS\_Environment production feature classes.
2. Rebuild the TEIS Environment (all boundaries, short tables, indexes, QC, etc.)
3. Export to LRDW ready template.