Model Catalog TODO

DCA

Not in order

Remember to:

* Pull from remote repo to local (hard drive)
* Modify
* Push from local to remote
* Only once modification and testing are complete: copy from local to ccsp for use by others

Get Andrew to create a new TEST.MC db to keep developing on. We want to be able to map from what we currently have on test but need to keep developing as well. – ***checking into option to just save out static copy to gdb for our current mapping. Check with BW on Taggart status. If we can keep things static for a while then just save out a copy and map from that if needed.***

***OR – can we go ahead and move what we have currently in TEST to PROD?***

If implemented then need to add 3rd option for append output location: in addition to existing TEST/PROD we’d need like a TEST2 – can’t remember if this is in pyt or config

* *Made a copy of MC in CCSP to map from (has the 3 char basins) and we can continue to throw in/take out data from TEST.MC for testing*

Account for changes to results.gdb that were made. Add required fields in MC table(s) and pipe it through the process – we know of LinkResults.MaxSurchargeUpstreamFt, anything else to include and pipe to the product? When we do include still need to account for 31 char issue (sde restriction) by truncating field(s). Watch out for situations where truncation results in fields with the same name and account for if an issue.

* **Add components to account for Alternative models – right now we probably cannot register them or it would act in a way we don’t want**

Add same required storms as Characterization to Alternatives required storms in required storms table

modified – per BW we need 2 EX, 5 EX, 10 EX, 25 EX, 4S6 EX and 25 FU

Clean up references in code to the RRAD, Rehab and RRAD Mapping Snapshot which are no longer being used – right now NOTHING goes to the RRAD (verify, of course). This includes references in config.

Deleting:

* Rrad.py
* Rrad\_db\_data\_io.py
* test\_rrad.py
* test\_rrad\_db\_data\_io.py
* rehab.py
* test\_rehab.py
* rrad\_mapping.py
* rrad\_mapping\_db\_data\_io.py

-  mapping\_snapshot.py

-  mapping\_snapshot\_exception.py

-  mapping\_snapshot\_dataio.py

- mapping\_area\_data\_io -- done

- mapping\_link\_data\_io -- done

- mapping\_node\_data\_io -- done

- mapping\_link -- done

- test\_mapping\_link -- done

- mapping\_node -- done

- mapping\_area – done

- test\_rrad\_mapping – done

- test\_area— done

- rehab\_data\_io -- done

* test\_mapping\_snapshot.py
* test\_rehab\_data\_io.py
* Test\_Rehab\_data\_io\_integration\_tests.py
* Config – all references to RRAD and Rehab and rrad mapping snapshot
* Existing table structure in the RRAD database – leave actual database (container) for now
  + Cleared all records for RRAD, RRAD\_MAPPING and set IDs to 0.
* KEEP but **rename**: Test\_RRAD\_capacity\_results\_integration\_tests.py (to ModelCatalog instead of RRAD)
* KEEP test\_emgaats\_registration\_integration\_test.py
* mapping\_snapshot\_data\_io.py
* Test\_characterization\_reporting\_integration\_tests

test\_simulation and test\_model\_data\_io still have failing tests related to storm names with a D – not sure how to fix test for these

\*\*\*Modify code to account for Alternatives mapping – this was possibly stubbed out by Dan/Brent earlier but we did not get very far

Alt model must have parent model id of the parent Characterization model

Get alternative model naming conventions from BW & modify code to enforce (we already enforce for Capacity models)

add model.valid\_alternative\_simulations (very similar to valid\_calibration\_simulations) and piece in model.valid

* *We don’t care about this because we don’t enforce model names, they point to whatever folder they want and it can be called whatever they want. Its up to them to enforce*

\*\*\*Run integration test with Alternative model to test

* Add: Test\_emgaats\_registration\_integration\_tests.test\_model\_registration\_with\_model\_status\_final\_model\_purpose\_alternative\_add\_model\_and\_results\_to\_catalog

\*\*Create script/ module to automate copy of data for the Sitka data load. Its an easy process but many layers and easy to do something like get a name wrong which breaks things.

* Input data sources will be based on an xlsx file and read into a dictionary. Provides easy maintenance for non-code types and allows us to iterate through inputs in copy method.

Existing mapping snapshot pyt *could* be modified to select which model(s) get sent to the process (the PipXP, Cost Estimator, RUL, BPW, etc process) – regardless of how, this functionality needs to be created

Need to include Model Tracking table (from MC) in load gdb so that Alternatives can be connected up with Characterization models in future versions. (DCA – need a bit more clarity on how this is used but can just put it in load gdb for now) Also add ref in SitkaDataSource.xls.

* **Sitka stuff**

Sitka is using the Feb 14, 2020 input file still, for now, so that they don’t have to deal with any actual changes OR things like accidental renaming issues

for DCA testing – get their current version to run vs the 20200214 version for now (this is what Corina is doing) and at some point we’ll shift them to the newer load gdb

get instructions from Sam for running Sitka modules and required installs – install in VM and run batch file in VM to launch pycharm – want to get set up end of week 4/10.

* **Other/ Future**

Remove RRAD from general CCSP process diagram for BW as its function is ill defined at this point. Current vision is that full risk process gets re-run for each snaphot. A snapshot is basically a package of capacity (models/sims) and structural (Hansen, etc) paired with process/criteria assumptions about risk. We basically cannot compare back across previous snapshots because data/criteria will change.

Still want/ need tool to allow user to make a copy of an already registered model, rename it, unlock it (make it writeable) and delete registration file

Add table/module to track models extracted for mapping. That way we know what has been used out of the MC, when, how many times, etc. If we set this up (to me) it basically puts the nail in the coffin for the RRAD db. Remaining question – do we retain the snapshot data somewhere and where? We obviously use it for mapping/reporting but then what becomes of it?

Add tool to do model level cleanup – remove all related tables for a specified ID/ IDs

Revise master\_DME\_hybrid to use SQL queries and make query layer methods instead of hard coded queries

Clean up CCSP mapping directory and enforce structure

Figure out ArcPro project mapping file structure

Figure out mapping method(s)

* As of right now spooling will not work since the model does not know its sewer basin and vice versa. This means a lot of manual mapping (eventually ~ a half dozen map types per basin with lets just say 80 basins (do we merge combined/ sewer basins for those that have both?). This is for just one type (like characterization) so there could be something like 1000 maps in total if these assumptions hold.
* I’m talking with BW and SR about web maps in general and for TMSs and doing some exploration. I’ve had some hangups with publishing services which hopefully can be resolved by Andrew/CGIS.
  + Received tentative go ahead for web mapping from Shannon
  + Check back with CGIS on publishing status so I can move forward with testing