**Code Inspection Report**

Reviewer: Leo Li

Code under review: merge.py, dboec.py, convert.py, getXML.py, testConvert.py, testMerge.py, testDboec.py

Date of review: Nov 13

Author of the code under review: everyone

1. Bugs: merge gives unexpected output

Reproduce: Instantiate two Database objects, each containing one system (not the same one), then pass the two Databases as arguments to merge().

Location: merge.py’s merge function

Suggestion: Examine incorrect parts of output to help determine the cause

2. Poor testing: testing for merge is incomplete

Location: testMerge.py

Suggestion: As soon as the merge bug is fixed, complete the set of test cases

3. Missing documentation: merge.py has no documentation, other functions in dboec.py, convert.py have incomplete docstrings

Location: merge.py, createSys, createBin, creates, createPl, …

Suggestion: Add comments/docstrings to the merge function and others

4. Unreadable Code: commented out code in getXML.py

Location: getXML.py’s toXml function

Suggestion: Confirm that the commented out code is no longer needed and remove it

5. Poor coding style: naming convention varies between using underscores and camel case

Location: dboec.py, getXml.py

Suggestion: Decide on one of the two for this project, then find and replace the offending function/variable names

6. Poor coding style: trailing whitespace at the end of some lines

Location: testConvert.py, testMerge.py, testDboec.py, dboec.py

Suggestion: Find all unnecessary whitespace and erase

7. Poor coding style: several large lines of code, usually declarations of big dictionaries, exceed 80 character limit

Location: convert.py, dboec.py, getXml.py, merge.py, testConvert.py

Suggestion: Break up offending lines, if possible