ENDF Phase 1 Checking & Review Status

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Phase I checking
ADVANCE status

Current ADVANCE system has several shortcomings:

- Uses buildbot “substrate”. Gitlab doesn’t like buildbot. Gitlab likes Kubernetes
- ADVANCE watches only one branch
- ADVANCE checks whole library and each evaluation, but only reports on the whole library

**ACTIONS:**
- Get Kubernetes cluster running
- Divorce ADVANCE from buildbot (right now is more of a separation than a divorce…)
- Kill all the bugs being introduced during the divorce process
- Allow ADVANCE to watch all branches
- ADVANCE should check whole library only for phase2 & master branches
- ADVANCE should check each evaluation only and provide report as build artifact to gitlab
ENDF branches & review process
ENDF project branches & workflow (names subject to change)

- master (locked)
- Phase II (locked)
- Phase I (unlocked)
- your dev. branch (either at BNL or your own server)

Your pet project: Wiffnium 87 (\(^{87}\text{Wf}\))
ENDF project branches & workflow (names subject to change)

- master (locked)
- Phase II (locked)
- Phase I (unlocked)
- your dev. branch (either at BNL or your own server)

\[^{87}\text{Wf evaluation ready to go! You make a merge request & approve it yourself when ready}\]
ENDF project branches & workflow (names subject to change)

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- Phase I (unlocked)
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ADVANCE churns on it…
ENDF project branches & workflow (names subject to change)

- master (locked)
- Phase II (locked)
- Phase I (unlocked)
- your dev. branch (either at BNL or your own server)

ENDF Manager issues merge request & assigns reviewer
ENDF project branches & workflow (names subject to change)

master (locked)

Phase II (locked)

(ENDF Manager issues merge request & assigns reviewer)

Note, the MR must be a branch off phase2, so we must copy. We lose all history before copy, but we can make link in the MR.

(_unlocked)

your dev. branch (either at BNL or your own server)
<table>
<thead>
<tr>
<th>Sub library</th>
<th># phase1 branches</th>
<th># review branches/ #MR</th>
<th>Comment</th>
<th>Initial phase1 commit hash</th>
</tr>
</thead>
<tbody>
<tr>
<td>thermal_scatt</td>
<td>9</td>
<td>4/0</td>
<td>13 stale branches, we need to move the process along! 15 changes since init</td>
<td>4ab796b8b2e3c68989ade9e316d2790c8bca5641</td>
</tr>
<tr>
<td>neutrons</td>
<td>2</td>
<td>8/0</td>
<td>68 changed files since project init</td>
<td>cf9e1d276c9ceb751cd895f06eae91c3705e7e42</td>
</tr>
<tr>
<td>decay</td>
<td>0</td>
<td>0</td>
<td>There were many review branches but they were closed. 520 changed files since project init</td>
<td>00aabcab42092072accc3cd6b0cb2a940dc9189f</td>
</tr>
<tr>
<td>gammas</td>
<td>0</td>
<td>0</td>
<td>No changes????? What happened with IAEA Photonuclear Library</td>
<td>66180650a907af7ca873d4374746b51deb6c6ffdd</td>
</tr>
<tr>
<td>deuterons</td>
<td>0</td>
<td>1/0</td>
<td>No changes since init, change predates init</td>
<td>49c8c3e181f638a4759b2ce7ba6d350738859066</td>
</tr>
<tr>
<td>atomic_relax</td>
<td>0</td>
<td>0</td>
<td>100 changes since init, all VERY minor</td>
<td>b8364ee93864e5025d1fb572afa27c1b03a8b75a</td>
</tr>
<tr>
<td>electrons</td>
<td>0</td>
<td>0</td>
<td>100 changes since init, all VERY minor</td>
<td>92a0b8f4aff7ce81437e27e3e73815fc97674dc4</td>
</tr>
<tr>
<td>photoat</td>
<td>0</td>
<td>0</td>
<td>100 changes since init, all VERY minor</td>
<td>09ca1346a0cf1a2f5496dc703524917e12593157</td>
</tr>
<tr>
<td>nfy</td>
<td>0</td>
<td>0</td>
<td>31 changed files since init</td>
<td>1d479df2f8a4a3f019f7f1761f2a50de548a1760</td>
</tr>
<tr>
<td>sfy</td>
<td>0</td>
<td>0</td>
<td>9 changed files since init</td>
<td>b74207751866650cf8e85137cd428b6bcaaeac271</td>
</tr>
<tr>
<td>standards</td>
<td>0</td>
<td>0</td>
<td>Probably all changes should be locked until ENDF/B-IX</td>
<td>e3f2876d0dd0b86b18e99e32bf32ca667ad22ed4</td>
</tr>
<tr>
<td>alphas</td>
<td>0</td>
<td>3/3</td>
<td>3 changes since init, 2 changes predate init</td>
<td>e0fda3db36eb64265702e644c21bb87ae439f35</td>
</tr>
<tr>
<td>helium3s</td>
<td>0</td>
<td>0</td>
<td>No changes since init</td>
<td>458ef6b6026d7ce987a983b7e40c262daf808611</td>
</tr>
<tr>
<td>tritons</td>
<td>0</td>
<td>4/4</td>
<td>4 changed files since init</td>
<td>c8ccea7e155b52d21b485c6897e8d7710fc8cd5</td>
</tr>
<tr>
<td>protons</td>
<td>0</td>
<td>1/0</td>
<td>No changes since init</td>
<td>b60cc3a13dab16d92ca3864e934a51392c2e985c</td>
</tr>
</tbody>
</table>
ENDF project branches & workflow (names subject to change)

master (locked)
Phase II (locked)
Phase I (unlocked)
your dev. branch (either at BNL or your own server)

Reviewer likes it, approves merge request
ENDF project branches & workflow (names subject to change)

Validation committee starts checking (some of this will be automated soon)

master (locked)

Phase II (locked)

Phase I (unlocked)

your dev. branch (either at BNL or your own server)
ENDF project branches & workflow (names subject to change)

CSEWG blesses change, ENDF manager or validation chair issues merge request

master (locked)
Phase II (locked)
Phase I (unlocked)
your dev. branch (either at BNL or your own server)
ENDF project branches & workflow (names subject to change)

CSEWG blesses change, we have new addition to next beta

master (locked)

Phase II (locked)

Phase I (unlocked)

your dev. branch (either at BNL or your own server)
Currently all ENDF/B-VIII.1 evaluations are jammed up in phase 1

- **master (locked)**
- **Phase II (locked)**
- **Phase I (unlocked)**
- **your dev. branch (either at BNL or your own server)**
Currently all ENDF/B-VIII.1 evaluations are jammed up in phase I.

We have suggested reviewers for most libraries, and as of mini-CSEWG, review process fleshed out.

master (locked)

Phase II (locked)

Phase I (unlocked)

your dev. branch (either at BNL or your own server)
ACTION ITEMS

☑️ Describe review process in CONTRIBUTING.md files
☑️ Review forms for all sub libraries (you all agreed for now they can be the same)
☑️ Gather comments for review forms
☑️ Code to generate a phase2 merge request with new branch holding new evaluation
☑️ Code to generate reviewer form,
  ☑️ Used legacy forms as starting point
  ☑️ Template generates Markdown form that plays nice with gitlab
  ☑️ Add link to prior phase1 evaluation
  ☑️ Connect review form to MR automatically
☐ Set up reviewer notifications in gitlab
☐ Reviewers for all sub libraries - we have some names, but not for all sub libraries and not all reviewers have gitlab accounts
We can and will start reviews.

It will be rough until we iron out remainder of technical issues