Updated ENDF-6 Format Approval Process

David Brown (BNL)

CSEWG Meeting, Virtual Nuclear Data Week 2020
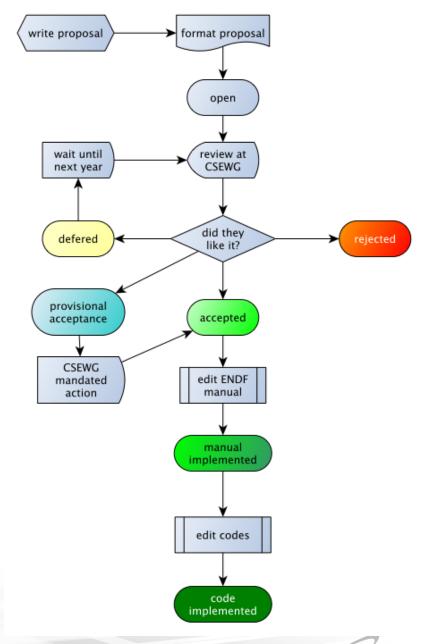
30 Nov. 2020

ENDF/B-VIII.0 format proposal lifecycle

- **GForge workflow adapted to match legacy process**

- **Mandatory contents of a format proposal**

  - Rationale

  - Suggested wording of format for manual

- **Preferred, but not always practical (enforced?), format proposal contents**

  - Sample files

  - Actual wording of format description in manual

  - Reference implementation in at least one processing code

ENDF/B-VIII.0 format proposal lifecycle

- **GF**
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- **Pre**
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- Reference implementation in at least one processing code

Two rate-determining steps

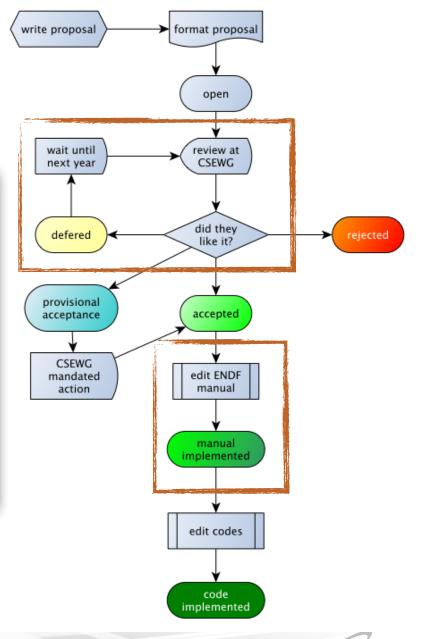- Review only done annually, in a time-consuming (and quite boring) Formats Committee session of CSEWG

- Manual implementation left to editors who often discover problems with original format proposal

GNDS Expert Group has developed gitlab-friendly review process that addresses these concerns
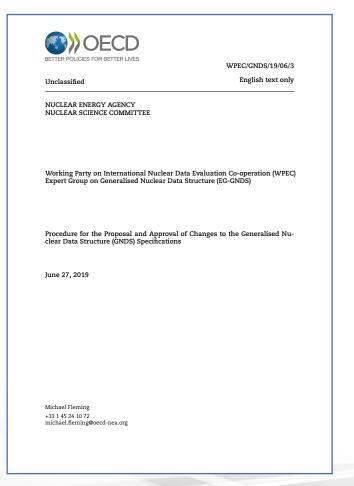
GNDS Format proposal process modeled on ENDF6 manual process, updated for git

- **Required:**
  - Issue tracker containing need & rationale for format
  - Merge request implementing manual changes
- **Preferred:**
  - Example file
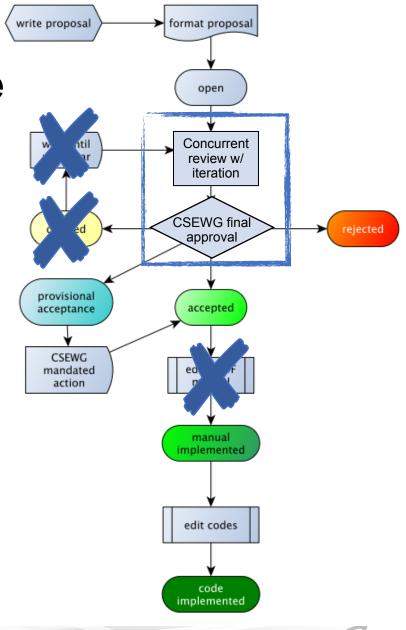 - Reference implementation in processing code

OECD
BETTER POLICIES FOR BETTER LIVES

WPEC/GNDS/19/06/3

Unclassified   English text only

NUCLEAR ENERGY AGENCY
NUCLEAR SCIENCE COMMITTEE

Working Party on International Nuclear Data Evaluation Co-operation (WPEC)
Expert Group on Generalised Nuclear Data Structure (EG-GNDS)

Procedure for the Proposal and Approval of Changes to the Generalised Nuclear Data Structure (GNDS) Specifications

June 27, 2019

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Revised ENDF/B-VIII.0 format proposal lifecycle

- **Adapt workflow to match gitlab process**
- **Mandatory contents of a format proposal**
  - Issue tracker containing need & rationale for format
  - Merge request implementing manual changes
- **Preferred**
  - Sample files
  - Reference implementation in at least one processing code

Create an issue in the issue tracker

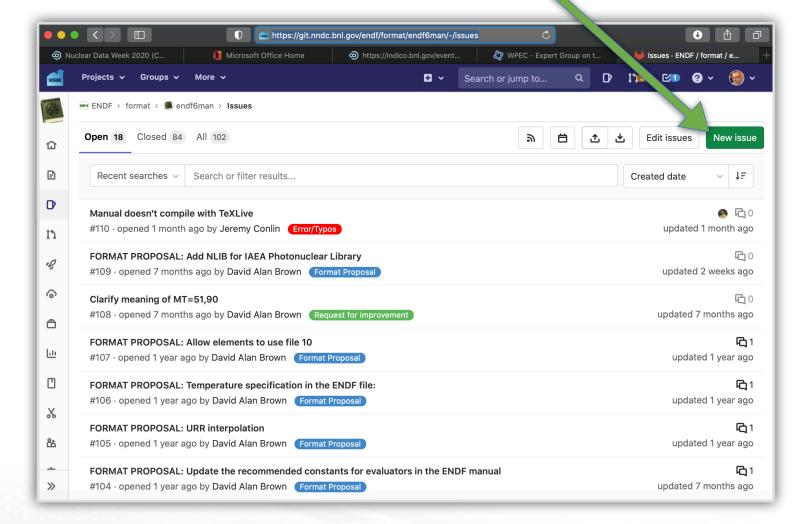https://git.nndc.bnl.gov/endf/format/endf6man/-/issues

Include:

- Rationale

- Supporting files

- Add a label (Error/Typo vs. Format Proposal)

At this point, the Formats Committee can already begin deliberation (if you remember to @wiardada & @mdunn, the chairs)
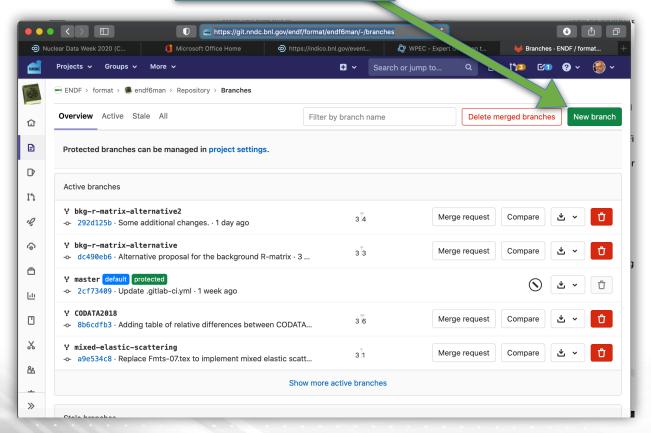
Make your changes *directly* to the manual

New branch button!

1. **Make a clone of the project**

   $ git clone https://git.nndc.bnl.gov/endf/format/endf6man.git

2. **Make a branch for your changes (https://git.nndc.bnl.gov/endf/format/endf6man/-/branches)**

3. **Pull your branch**

   $ git pull

   $ git checkout mybranch

4. **Edit the LaTeX**

5. **Commit to your own branch**

   $ git add blah blah
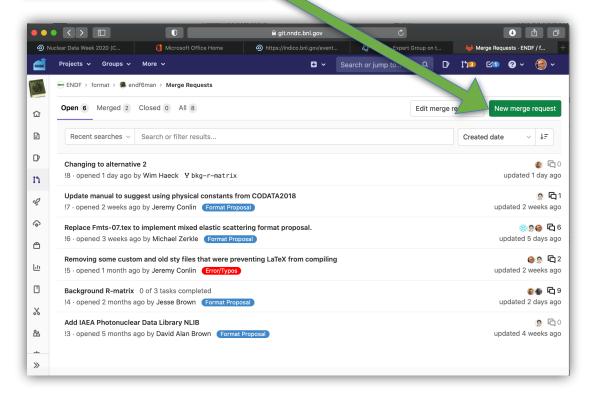
   $ git commit

   $ git push

Are you ready for review?

https://git.nndc.bnl.gov/endf/format/endf6man/-/merge_requests
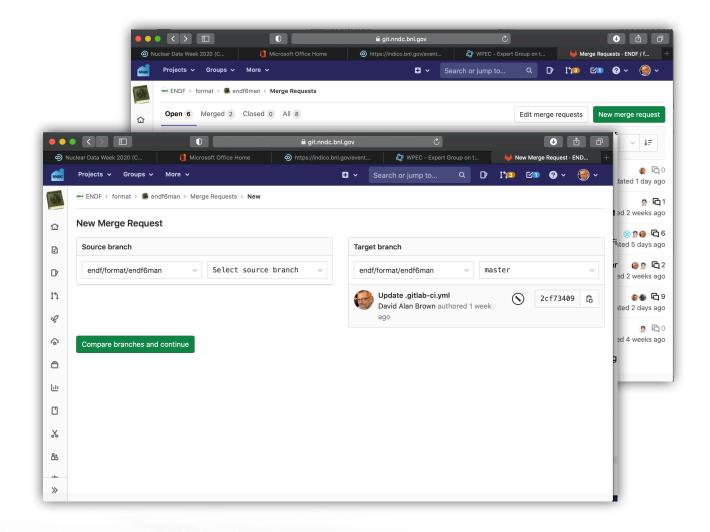
- **Make a merge request**

Are you ready for review?

https://git.nndc.bnl.gov/endf/format/endf6man/-/merge_requests

- **Make a merge request**

- **Merge from your branch to the master**

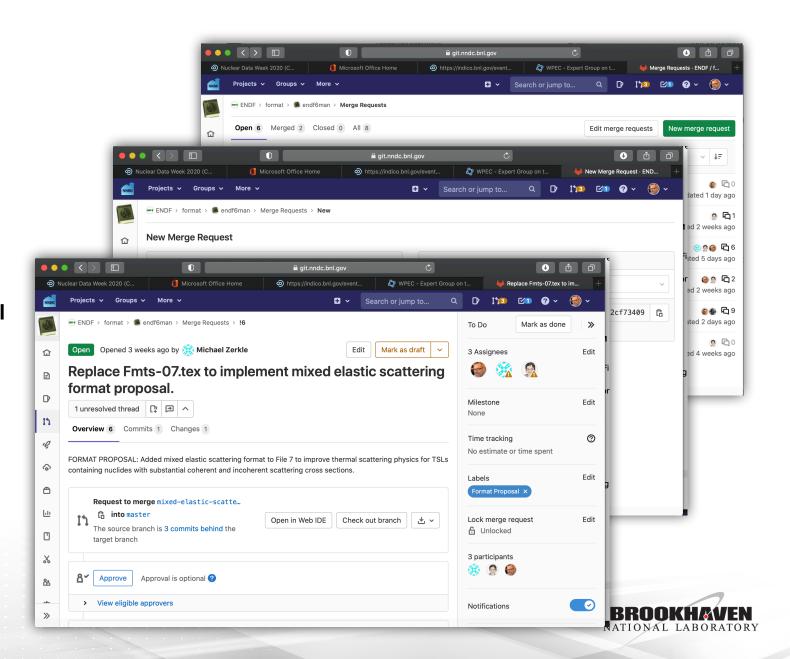# Are you ready for review?

https://git.nndc.bnl.gov/endf/format/endf6man/-/merge_requests

- **Make a merge request**

- **Merge from your branch to the master**

- **Iterate with the Formats Committee until all are ready for CSEWG (make sure to @wiardada & @mdunn, the chairs)**
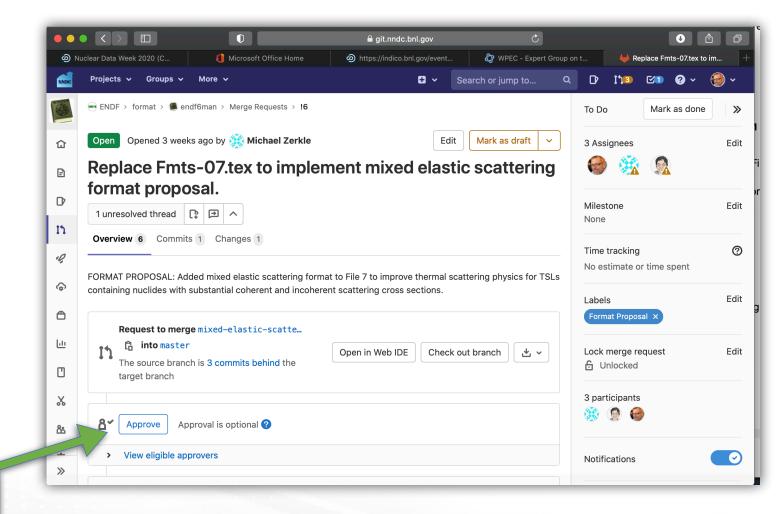
Final approval!

You'll still present it at CSEWG, but the formal review will most-likely be pro-forma since you already did the iteration!

Once approved, the library manager will push the merge button

Committee approves here, merge button just off screen

Two other things

- **Transition CI/CD from buildbot system to built-in gitlab CI/CD**
  - All versions of manual on all branches will be available to all members of CSEWG with git.nndc.bnl.gov accounts

- **Revised format review process document will follow, pending your approval**
  - Note, this process has worked well for 2 years in GNDS
  - Reflects common practice in all gitlab/github managed projects