

NSTX-U 2021-2025 5YP Review



**Josh King, Spherical Tokamak
Program Manager, SC - FES**





U.S. DEPARTMENT OF
ENERGY

Office of Science

Detailed Timeline of Events



Sept. 17, 2019

My first email to Stan giving him a heads up that we need to start developing the next 5YP



Detailed Timeline of Events

Sept. 17, 2019



A lot of work

My first email to Stan giving him a heads up that we need to start developing the next 5YP

Sept. 17, 2019

My first email to Stan giving him a heads up that we need to start developing the next 5YP



A lot of work



COVID-19

Sept. 17, 2019

My first email to Stan giving him a heads up that we need to start developing the next 5YP



A lot of work



More work



COVID-19

Sept. 17, 2019

My first email to Stan giving him a heads up that we need to start developing the next 5YP



A lot of work



COVID-19

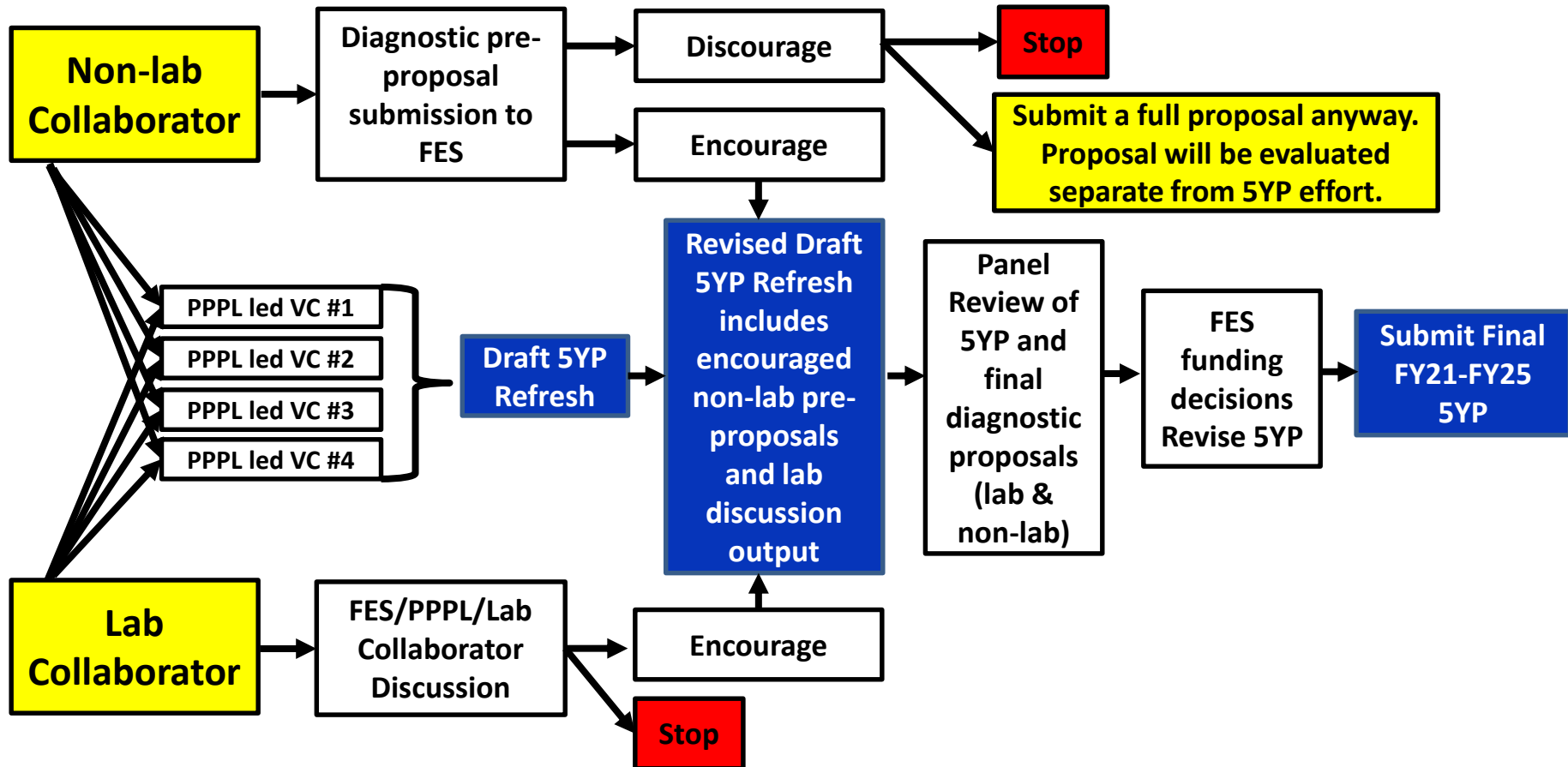
More work



June 11, 2020

Panel review of the completed 5YP and collaborator proposals

One-Team: Diagnostic collaborator input to the NSTX-U 5YP refresh is to be inclusive



- All diagnostic collaborators have 5 opportunities to contribute to the NSTX-U 5YP refresh
 - Each PPPL led VC is dedicated to 1 of 4 5YP outline objectives, so contributions need to be aligned w/ objectives
- Submissions not aligned w/ the initial Outline Objectives should be submitted directly to FES as a pre-proposal (for non-labs), or discussed w/ FES/PPPL/collaborator separately (for labs)

Excellent Panel

- Max Austin (UT – DIII-D)
- Thomas Eich (IPP – AUG)
- Chuck Greenfield (GA – DIII-D)
- James Harrison (CCFE – MAST-U)
- Chris Holcomb (LLNL – DIII-D)
- Eric Hollmann (UCSD – DIII-D)
- Earl Marmor (MIT – DIII-D/Intl.)
- Yuichi Takase (U. of Tokyo – TST-2)
- Marco Wischmeier (IPP – AUG)

Supplemental Diagnostic Reviews

- Mike Van Zeeland (GA – DIII-D)
- Jerry Hughes (MIT – DIII-D/Intl.)

General Comments

- This was a thorough review with every Chapter being carefully considered along with diagnostics
- The plan is ambitious and exciting!
- Panel indicated that they learned something by participating
 - Good messaging to the community

1. Present my recommendations concerning the NSTX-U collaborator diagnostic proposals and 5YP scope amendments to FES management
2. Announce diagnostic FOA funding decisions and issue PRs
3. Present my recommendations concerning the NSTX-U General ST FOA to FES management
4. Announce General ST FOA funding decisions and issue PRs
5. FES revise 5YP document incorporating funding decisions and scope amendments & request elaboration for selected sections
6. NSTX-U Team complete requested section elaborations and review FES revisions for factual accuracy
7. Send 5YP back to FES for final review
8. FES returns final 5YP to NSTX-U Team to be posted online

Questions?