

Memorandum of Understanding on NSTX Data Usage and Publication Policies

A multi-institutional collaborative effort constitutes the NSTX Research Team. All Research Team members are offered full access to NSTX data as it is collected and analyzed. With these privileges comes the responsibility for Research Team members, both on-site and off-site, to ensure that the data are used correctly, interpreted correctly, and that appropriate credit for providing measurements, systems operations, and analyses are given.

This Memorandum of Understanding is intended to set forth the guidelines of the NSTX data usage and publication policies.

- 1) No Research Team member will be given direct access to unpublished NSTX data until this agreement has been signed by the Research Team member.
- 2) It will be the responsibility of the diagnostic physicists to produce calibrated and validated data in a timely fashion. Such data result from reducing the measured raw signals to a form that can be used for analysis in support of an ongoing experiment or for subsequent analysis, and then validating and releasing by the responsible diagnostic physicist for such use. This data will hereafter be referred to as “validated reduced data”.
- 3) Validated reduced data will be available to the entire NSTX group for physics analysis of any type (data analysis, modeling, and theory), pursuant to Item 1. There will be no restriction on any individual, or group of individuals, from performing physics analysis that uses validated reduced data either “between-shots” (in support of the ongoing experiment) or “off-line”.
- 4) Similar to the guidelines for validated reduced data, and pursuant to Item 1, the results of the physics analysis will be available to the entire NSTX Research Team. The results of the high-level analysis (between-shots or off-line modeling) are to be validated in a timely fashion, and can be used without restriction to support the physics analysis of any research team member.
- 5) It is expected that the responsible physicist will write up as first author the first results from his/her efforts. “Efforts” includes diagnostic measurements, subsystems, experiments, analysis, etc. In later papers, if one is actively involved in the analysis of

data, that person would be in the first alphabetical group of authors after the first author. In general, authorship priorities are:

- a) First author – person who leads the effort in the experiment or analysis, and who writes the paper
 - b) First alphabetical group of authors after the first author – persons who have actively contributed to the work through experiment, analysis, writing, etc.
 - c) Second alphabetical group of authors – other persons who have contributed to the work through data, operations, analysis, etc.
- 6) It will be the responsibility of the first author to elicit comments on a draft of the paper from the co-authors and the NSTX Team. The Head of the NSTX Physics Analysis Division will oversee this process, ensuring that the paper has undergone sufficient peer review before approving its submittal for presentation or publication, ensuring proper credit (via co-authorship), and ensuring a reasonable time scale for the peer review process (two weeks). This will be done in coordination with the other Division Heads where appropriate. When publication rights or authorship priorities are in dispute and cannot be resolved at the Divisional level, the decision will be made by the NSTX Project Director and Program Director with advice from the Division Heads.
- 7) Presentations at conferences and workshops of NSTX physics results will be coordinated and approved by the Head of the Physics Analysis Division, in consultation with the other Division Heads and the Project and Program Directors. For major presentations, a rehearsal to NSTX peers is expected.
- 8) In order to disseminate knowledge to the full Research Team and the public, presentations and publications will normally be posted on the WEB, either at the researcher's home institutions and linked to the NSTX server, or directly on the NSTX server. In addition, results will be written up and disseminated as PPPL or other home institutional. Patent clearance and acknowledgment of DOE funding is required for all reports. The patent clearance and institutional report system of the first author's home institution will be utilized unless the first author, if not a PPPL employee, chooses to issue the report via the PPPL system.

Signature_____

Date_____

Institution_____