

Attachment 2

NSTX Data Usage and Publication Agreement

NSTX Research is carried out by a multi-institutional collaborative Research Team. All Research Team members are offered full access to NSTX data as it is collected and analyzed. This privilege entails responsibility by the Research Team members, both on-site and off-site, to ensure that the data are used properly, interpreted correctly, and that appropriate credit is given for the provided measurements, systems operations, and analyses.

The undersigned member of the NSTX Research Team agrees to adhere to the following guidelines of the NSTX data usage and results publication.

- 1) No Research Team member will be given direct access to unpublished NSTX data until this agreement has been signed by the Research Team member, and submitted to the NSTX Head of Physics Analysis
- 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 physicist responsible for the first results from his/her efforts will produce the initial paper on these results as first author. “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 and 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 whose work in data acquisition, operations, analysis, etc. has been used in the paper.

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6) The Head of Physics Analysis shall oversee the process to review and approve the content and authorship of papers and presentations utilizing NSTX data, in coordination with the NSTX Division Heads. To ensure adequate review, and as a requirement for external use of a paper for publication or a presentation at meetings, the first author shall circulate the paper or the presentation to coauthors for review and approval. Having done this, the first author shall submit the paper or the presentation, at least 7 days in advance of the external use, to the responsible Division Heads and the Head of Physics Analysis, with copy to the NSTX Program and Project Directors. The Head of Physics Analysis or his designate shall, upon receipt, inform the Team and post the material on the Web for Team-wide comment to the first author. The Head of Physics Analysis or his designate shall issue the required approval before the external use. Disputes about the paper or the presentation that are not resolved among the authors or the team members shall be brought promptly to the attention of the responsible Division Heads and the Head of Physics Analysis for resolution.

7) Presentations and accompanying papers at conferences and workshops of NSTX physics results will be coordinated and recommended by the Head of Physics Analysis in consultation with the Division Heads, for approval by the Project and Program Directors. Major presentations will require rehearsal to the NSTX Research Team at an appropriate time (≥ 1 week before travel by the presenters).

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 a PPPL report or a report of a Research Team member's home institution. Patent clearance according to the policies of the institution issuing the report and acknowledgment of DOE funding are 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.

9) The first author of report or publication on NSTX research results, prepared by the home institution of a Research Team member, should in a timely manner inform the NSTX Research Team by submitting copy of the report or publication to the NSTX Head of Physics Analysis.

Signature _____

Date _____

Institution _____