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Helping a Department of Energy Laboratory respond to Public Access requirements

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The Princeton Plasma Physics Laboratory (PPPL) is a United States Department of Energy facility operated by Princeton University. PPPL is a collaborative center primarily dedicated to theoretical, experimental, and engineering research in plasma physics and fusion energy. PPPL is home to many internationally renowned experimental apparatus including the most powerful spherical tokamak facility in the world, the NSTX-U. Researchers also collaborate with other international experiments, including the International Thermonuclear Experimental Reactor (ITER) demonstration device being built in Cadarache, France.

Research Departments
- Advanced Projects
- Environment, Safety, and Health
- Engineering
- Information Technology
- ITER and Tokamaks
- NSTX-U
- Theory and Computation

Employees
- Faculty: 6
- Physicists: 95
- Engineers: 96
- Technicians: 166
- Administration: 123
- Graduate Students: 35

U.S. Department of Energy Public Access Plan

OSTP Memo
In February of 2013, the White House Office of Science and Technology Policy released the memo, Expanding Public Access to the Results of Federally Funded Research.

Research Department
- The U.S. Department of Energy (DOE) was the first Federal Agency to release their public access plan on July 24, 2014.
- Scientific Publications
  - Submit metadata and a link to the full-text accepted manuscript (or the full text itself) to DOE Office of Scientific and Technical Information (OSTI)
  - DOE provides portal and search interface tool called PAGES (Public Access Gateway for Energy and Science)
  - Allows 1 year embargo
- Scientific Data in Digital Formats
  - Research Proposals must include Data Management Plan
  - Unrestricted data underlying publications should be made publicly accessible
  - Published article should indicate how data can be accessed
  - Encourages the use of existing community or institutional repository (no existing Plasma Physics data disciplinary repository)
  - DMPs must protect confidentiality, privacy, U.S. Security, and recognize proprietary interest and intellectual property

DOE Fusion Energy Science Division Additional Data Requirements
- DOE Statement on Data Management applies to codes
- Encourages codes be made available via Open Source licensing
- Provides 50% RI and R&D expenditures in Plasma Physics and fusion energy

PPPL Responses to Public Access requirements

Scientific Publications
- Since its inception, PPPL has been required to submit copies of all laboratory produced technical reports to DOE’s Office of Science and Technical Information (OSTI) as part of its contract with the DOE. Thus PPPL has a Publications Office and formal procedure for submitting publication information to the DOE.
- Scholarly Communications Librarian and Plasma Physics/E-Science Librarian
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- Scholarly Communications Librarian...

Librarian Assistance
- Set up meeting with Scholarly Communications Librarian, Plasma Physics/E-Science Librarian, and PPPL Head of Technology Transfer
- Scholarly Communications Librarian and Plasma Physics/E-Science Librarian
- Pine Labs
- Scholarly Communications Librarian provided information about Princeton's DataSpace Institutional Repository
- Developed Data Management Plan
- Provided information on use of DataSpace for DMP
- Provided information on use of ARKs, configuration, and metadata
- Set up community in DataSpace for data underlying publications
- Each department has its own sub-community and workflow for depositing. Some departmental managers perform the deposit, others leave it to individual researchers
- Linking between data and publications is provided where possible

Conclusions
- Princeton University's DataSpace Repository provided an ideal solution to DOE Public Access data requirements. A core plasma physics journal recently partnered with Zenodo as an option for depositing data underlying publications, however PPPL prefers the DataSpace option.
- Scholarly Communications Librarian and Plasma Physics/E-Science Librarian
- Scholarly Communications Librarian...

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