Helping a Department of Energy Laboratory respond to Public Access requirements

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Engineering Librarian

Princeton Plasma Physics Laboratory (PPPL)
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 2013, the White House Office of Science and Technology Policy released the memo, Expanding Public Access to the Results of Federally Funded Research. This memo mandated that agencies with more than $100M in R&D expenditures must develop plans to make the results of federally funded research freely available to the public.

U.S. Department of Energy Public Access Plan
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)
- 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
- Additional Requirements and Guidance for Digital Data Management

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.

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