



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Office of Science

Statement on Digital Data Management

Nuclear Sciences Advisory Committee

March 8th, 2013

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Update since Summer 2011

- **Office of Science Statement on Digital Data Management**
 - text is currently in draft form but requirements and important points are firm.
 - Requirements will apply to all applications for research funding (from universities, labs, etc) but NOT to SBIR/STTR awards and NOT to applications for time on user facilities
 - Requirements take effect Oct 1, 2013
- **Is consistent with recent OSTP guidance on “Increasing Access to the Results of Federally Funded Research” (2/22/2013)**
<http://www.whitehouse.gov/blog/2013/02/22/expanding-public-access-results-federally-funded-research>
- **Takes into account your input from the reports of Summer 2011 and other public comments**

Clarifications

- Which data?

Focus here is *digital research data*

- What is data management?

Data management reflects all stages of the data lifecycle.

Focus here is on data sharing and preservation

- Who will be impacted by this policy?

Stated requirements are for PIs and research institutions but reviewers and program staff will have new responsibilities



Approach

- We want to have a policy that is specific to Office of Science needs and mission
- We want to give programs within the Office of Science maximum flexibility in tailoring implementation of the policy while providing a clear statement of goals and expectations from the Office of Science
- We want to be consistent with Administration guidance and take into account input from community and public
- We do not want to overburden our research communities with a policy that is inconsistent with policies of other research funding agencies



Summary: Office of Science Statement on Digital Data Management

Principles

- Effective data management has the potential to increase the pace of scientific discovery and promote more efficient and effective use of government funding and resources. Data management planning should be an integral part of research planning.
- Sharing and preserving data are central to protecting the integrity of science by facilitating replication of results and to advancing science by broadening the value of research data to disciplines other than the originating one and to society at large.
- Not all data need to be shared or preserved. The costs and benefits of doing so should be considered in data management planning.



Summary: Office of Science Statement on Digital Data Management

Requirements (1 of 3)

- To integrate data management planning into the overall research plan, **all proposals submitted to the Office of Science for research funding are required to include a Data Management Plan (DMP)** of no more than two pages that describes how data generated through the course of the proposed research will be shared and preserved or explains why data sharing and/or preservation are not possible or scientifically appropriate. At a minimum, DMPs must describe how data sharing and preservation will enable validation of results, or how results could be validated if data are not shared or preserved.



Summary: Office of Science Statement on Digital Data Management

Requirements (2 of 3)

- **DMPs must provide a plan for making all research data displayed in publications resulting from the proposed research digitally accessible at the time of publication.** This includes data that are displayed in charts, figures, images, etc. This requirement could be met by including the data as supplementary information to the published article, or through other means. The published article should indicate how these data can be accessed.



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Requirements (3 of 3)

- In determining the resources needed for data management, **researchers that plan to work at an Office of Science User Facility as part of the proposed research should consult the published data policy of that facility** and reference it in the DMP. DMPs that explicitly or implicitly commit data management resources at a facility beyond what is conventionally made available to approved users should be accompanied by written approval from that facility.

