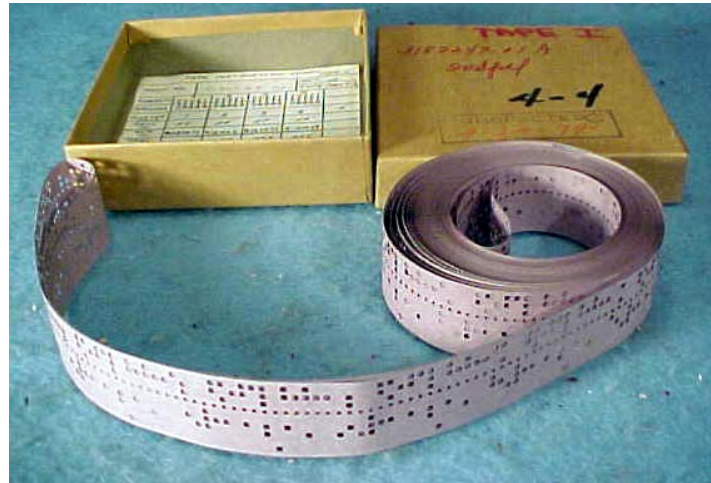

Data Management and Open Access PSFC Strategy for Compliance



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New Government-Wide Regulations Are Aimed at Preserving and Sharing the Results of Publicly Funded Research

- For DOE, this means that all **new proposals must include a data management plan**
 - What data is being created?
 - How will it be preserved?
 - How will it be shared?
- **Specifically, manuscripts and the data displayed in their figures and tables must be made available in machine-readable form at the time of publication**
- Details of the new rules are available at <http://science.energy.gov/funding-opportunities/digital-data-management/>

What Is The Impact Of These New Regulations?

Remember

- We didn't make up this requirement
- Our aim is to help you comply

What Is The Impact Of These New Regulations?

- **Some aspects of the new rules are not really new**
 - Our contracts used to have clauses requiring us to protect “critical files and data” for the life of the contract plus 5 years.
 - We’ve always been required to make manuscripts available – PSFC reports
- **What is new is the clarity of the data management and open-access requirements**
 - It’s a good thing for researchers to document how they protect and share data
 - How long must data be saved & made available? Contracting institution may be responsible beyond its affiliation with any particular researcher
 - Thus cooperation between researchers, Labs, MIT library and OSP is important
- **Open Access Data requirement - researchers need to define/select an institutional repository and develop the processes for populating it**
 - We are working with MIT Libraries to realize some economy of scale
 - We can provide examples of “best practices”, processes, templates for DMP.

Impact: The Bad News

- The benefits from the new policy are widely diffused, while the costs are localized.
- The PSFC will need to define and adopt an approach for managing file submission and data flow
- Individual researchers will need to modify their workflows to create data files that correspond to each figure file and table in their publications
- **The requirements are mandatory and it will be fairly easy for agencies to monitor compliance**

Impacts: The Good News

- **By working together, we can probably minimize many of the negative impacts by taking advantage of scale and sharing ideas**
 - We have examples available for the DMPs (though some customization will be required for each research group.)
<http://library.psfc.mit.edu/publishing/dmp/dmp.html>
 - MIT libraries also provide DMP resources: <http://libraries.mit.edu/data-management/plan/write/>
 - In collaboration with the MIT libraries, we have selected an institutional data repository and are defining procedures through which our researchers can satisfy the open-access requirements
 - We are updating the PSFC library website to support submission of documents and data in accordance with the new rules.
 - We are developing software to help researchers create the data files required.

The Bottom Line

- Writing new DMPs, cribbing from the examples should not be too much of a burden
- You can build the software tools we provide into your existing analysis and display routines.
 - (It is almost certain that you will want to create data files at the same time that your are creating your figure files)
 - We've chosen a standard file format and metadata schema – you don't have to worry about that
- Tables can be submitted as plain text, Excel, or Word files
- The submission process through the PSFC library should be overall simpler than the existing procedures

Bonus Slides

- We've had recent discussion with MIT TLO (Technical Licensing Office) about how to handle disclosure/non-disclosure of Intellectual Property
 - There may be some new options – we'll try to document
- We want to be more proactive in bringing new and important results to the attention of the MIT news office
 - The first step is to identify the new work at just the right time – e.g. when the work is accepted for publication
 - We'll be thinking about how to help research groups/authors build this into their workflow

END
