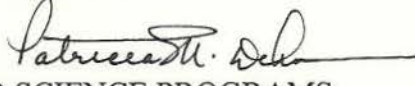




Department of Energy  
Office of Science  
Washington, DC 20585

January 6, 2012

TO: OFFICE OF SCIENCE ASSOCIATE DIRECTORS

FROM: PATRICIA M. DEHMER   
DEPUTY DIRECTOR FOR SCIENCE PROGRAMS  
OFFICE OF SCIENCE

SUBJECT: DEFINITION OF A USER FACILITY

This memorandum provides the definition of a user facility developed by the Office of Science (SC) Associate Directors through the SC User Facility Working Group. A current list of the SC user facilities is appended.

The user facilities are a defining component of the SC enterprise. More than 50% of SC's annual appropriation supports facility operations, construction, and major instrumentation. In FY 2010, 26,000 extramural researchers from universities, industries, federal laboratories, and non-profit organizations used the facilities. This number is expected to increase as new facilities are brought on line. SC user facilities enable fundamental scientific research essential to accomplish the Department of Energy's mission. A decision to establish a new facility requires that the facility address a need unfilled by existing facilities, equipment, or services within the Department or available through other government agencies, public organizations, private entities, or international bodies.

Despite substantial diversity among the SC user facilities, the following definition—which has its basis in statute, regulation, and peer-evaluated practices—applies to all and extends to facilities yet to be established.

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**A user facility is a federally sponsored research facility available for external use to advance scientific or technical knowledge under the following conditions:**

- **The facility is open to all interested potential users without regard to nationality or institutional affiliation.**
- **Allocation of facility resources is determined by merit review of the proposed work.**
- **User fees are not charged for non-proprietary work if the user intends to publish the research results in the open literature. Full cost recovery is required for proprietary work.**



- **The facility provides resources sufficient for users to conduct work safely and efficiently.**
  - **The facility supports a formal user organization to represent the users and facilitate sharing of information, forming collaborations, and organizing research efforts among users.**
  - **The facility capability does not compete with an available private sector capability.**
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**ATTACHMENT:**

The Office of Science User Facilities List, FY 2012

**U.S. Department of Energy  
Office of Science User Facilities, FY 2012**

<u>Facility</u>	<u>Host institution</u>
<b>Advanced Scientific Research Computing (ASCR)</b>	
National Energy Research Scientific Computing Center (NERSC)	LBL
Argonne Leadership Computing Facility (ALCF)	ANL
Oak Ridge Leadership Computing Facility (OLCF)	ORNL
Energy Sciences Network (ESnet)	LBL
<b>Basic Energy Sciences (BES)</b>	
<i>Light Sources</i>	
Advanced Light Source (ALS)	LBL
Advanced Photon Source (APS)	ANL
Linac Coherent Light Source (LCLS)	SLAC
National Synchrotron Light Source (NSLS)	BNL
Stanford Synchrotron Radiation Light Source (SSRL)	SLAC
<i>Neutron Sources</i>	
High Flux Isotope Reactor (HFIR)	ORNL
Spallation Neutron Source (SNS)	ORNL
Lujan at Los Alamos Neutron Science Center (LANSCE)	LANL
<i>Nanoscale Science Research Centers</i>	
Center for Functional Nanomaterials (CFN)	BNL
Center for Integrated Nanotechnologies (CINT)	Sandia/LANL
Center for Nanophase Materials Sciences (CNMS)	ORNL
Center for Nanoscale Materials (CNM)	ANL
The Molecular Foundry	LBL
<i>Electron Microscopy Centers</i>	
National Center for Electron Microscopy (NCEM)	LBL
Electron Microscopy Center for Materials Research	ANL
Shared Research Equipment Program (ShaRE)	ORNL
<b>Biological and Environmental Research (BER)</b>	
Environmental Molecular Sciences Laboratory (EMSL)	PNNL
Atmospheric Radiation Measurement Climate Research (ARM)	Global network
Joint Genome Institute (JGI)	LBL
<b>Fusion Energy Sciences (FES)</b>	
DIII-D	General Atomics
National Spherical Torus Experiment (NSTX)	PPPL
Alcator C-Mod	MIT
<b>High Energy Physics (HEP)</b>	
Proton Accelerator Complex	FNAL
Facility for Advanced Accelerator Experimental Tests (FACET)	SLAC
<b>Nuclear Physics (NP)</b>	
Continuous Electron Beam Accelerator Facility (CEBAF)	TJNAF
Holifield Radioactive Ion Beam Facility (HRIBF)	ORNL
Relativistic Heavy Ion Collider (RHIC)	BNL
Argonne Tandem Linac Accelerator System (ATLAS)	ANL

Note: This list reflects facility status as of the beginning of the fiscal year and does not reflect changes in facility status enacted in appropriations law for FY 2012.