

TEMPORARY CHANGE REQUEST

The Temporary Change Request (TCR) Form is to be used to process urgent or minor changes for PPPL Policies, Organization/Mission Statements and Procedures. The TCR should be used when changes are:
 1) urgent, and can not wait the 2-4 week period for Department Head review/comment, or
 2) minor, and do not warrant Department Head review.

Person Requesting Change: Mike Williams**Department Name: Engineering and Technical Infrastructure****Phone Ext: 2866****Document Number: O-008 Revision No.: 1****Document Title: Engineering and Technical Infrastructure Department Organization and Mission****Reason for change:**

Include new responsibilities of the Computer Division for supporting administrative computing. The new duties were assumed when the former Information Resources Management group was reorganized under to the Computer Division.

Change description: (Summarize and attach changed pages, with changes clearly indicated)

Replace O-008, revision 1 with TCR-O-008,R1-001.

1. Does this TCR significantly alter the intent or scope of the document? YES: NO: X

2. Does this TCR significantly impact ES&H? YES: NO: X

If 1 or 2 is YES, Explain why the changes should not be routed for Department Head review:

Mike Williams**Department/Division Head Approval****11/18/01****Date****J.W. Anderson****Head, ES&H and Infrastructure Support/designee****11/27/01****Date**

Release/Effective date of this TCR: **November 27, 2001**

Incorporate this TCR into next revision of this document? Yes X No

PPPL	PRINCETON PLASMA PHYSICS LABORATORY	ORGANIZATION/ MISSION	No. O-008 Rev 2 page 1 of 3
Subject: Engineering and Technical Infrastructure Department Organization and Mission		Effective Date: September 4, 1998	Initiated by: Head, Engineering and Technical Infrastructure
		Supersedes: Revision 0 Dated 5/19/92	Approved: Director

Introduction

The role of the Engineering and Technical Infrastructure Department is to provide world-class engineering resources and services in support of the Laboratory's mission. This includes responsibility for the technological infrastructure required for the Laboratory's experimental facilities. Specific programmatic responsibilities include the caretaking of D-Site where the Tokamak Fusion Test Reactor (TFTR) is presently located and mothballed as well as the eventual decontamination and decommissioning of the TFTR tritium contaminated facility. The primary functions of the Department include:

- Providing recognized engineering leadership and unique technical contribution to the Laboratory, US and World fusion programs.
- Effectively maintaining the technical infrastructure with a particular emphasis on ensuring a safe and economically viable environment for current and future experiments.
- Providing for safe and environmentally friendly operation of new and upgraded experiments, the continued maintenance and operation of the D-Site facility and the maintenance of Laboratory experimental facilities and equipment which are not presently in use but could be of significant potential value in future activities.
- Continually improving our most important resource - our staff - through a commitment to technical training and employee development.

Department Organization

The Department is organized functionally into four Divisions:

- Mechanical Engineering Division
- Electrical Engineering Division
- Computer Engineering Division
- Fabrication, Operations and Maintenance Division

Responsibilities

The Mechanical Engineering Division is primarily responsible for:

- Providing conceptual, preliminary and final designs and systems engineering services in support of new and upgraded experimental facilities.
- Developing the engineering designs and advancing the state-of-the-art for magnetic confinement plasma physics research devices.
- Performing engineering analysis involving heat transfer, stress analysis, neutronics and electromagnetics.
- Developing and maintaining application codes for engineering design and analysis.
- Providing centrally managed Computer Aided Design (CAD) services using state of the art software, equipment and techniques.

The Electrical Engineering Division is primarily responsible for:

- Operating, maintaining and upgrading AC Power distribution systems including emergency (diesel) and standby power supplies.
- Operating, maintaining and upgrading motor generator sets and ancillary equipment.
- Repair and calibration of electronic equipment.
- The design, development, operation and maintenance of electrical power conversion systems, radio frequency systems, neutral beam systems and other technologies used as plasma heating systems.

The Computer Engineering Division is primarily responsible for:

- Design, management and operation of PPPL's computing facilities in support of scientific and engineering staffs, including general purpose computing systems and collaboration technologies.
- Design, development and implementation of computing facilities and functions in support of project specific applications such as control and data acquisition systems.
- Design, development and implementation of computing facilities and functions in support of administrative computing such as Information Resource Management. **TCR-O-008,R1-001**
- Design, implementation, operation and maintenance of facilities and infrastructure in support of distributed computing, including data communications, networking, desktop computing and office automation.
- Computer security for all computing at PPPL.

The Fabrication, Operations and Maintenance Division is primarily responsible for:

- Providing shop services required for mechanical, electrical, materials test, brazing and welding, vacuum components testing, hardware assembly and machine operations.
- Providing management and oversight for the hoisting and rigging and welding programs.
- Providing construction engineering design and management.
- Providing engineering design, development, fabrication, maintenance and operations support for vacuum, cryogenic, water and diagnostic (mechanical) systems.