Subject:	Effective Date:	Initiated by:
Off-Site Research Department Mission Statement	April 22, 1999	Head, Off-Site Research
	Supersedes: O-005, Revision 0 "Physics Department Charter"	Approved: Director

INTRODUCTION

PPPL's Off-Site Research Department supports the conduct of excellent research on remote facilities, in pursuit of the goals of the U.S. fusion energy sciences program and the PPPL Mission.

The Department members perform research to increase understanding and develop the knowledge base for an attractive fusion concept.

- on tokamaks, the research focuses on advanced control and diagnosis of the profiles of plasma current pressure and transport, and on improvement of stability by feedback control of wall modes and neoclassical tearing modes;
- on alternate concepts, the research focuses on exploration and advancement of promising toroidal magnetic concepts, and application of diagnostic and analysis techniques to increase understanding.

The Department members facilitate performance of forefront MFE research on leading facilities world-wide by:

- identifying opportunities for mutual benefit with remote program leaders,
- extending US discoveries to the international program, and
- importing international discoveries into the U.S. program.

Scientific collaborations at remote sites are an essential part of the PPPL institution since they provide opportunities for access to the leading facilities world-wide to address the key issues in fusion energy science research. PPPL's conduct of off-site research is expected to be a long-term component of the laboratory's program.

ORGANIZATIONAL STRUCTURE

The Off-Site Research Department consists of three elements:

- DIII-D Research,
- C-Mod Research, and
- International Collaborations.

RESPONSIBILITIES

- The DIII-D Research team performs and supports research on the DIII-D tokamak at General Atomics in LaJolla, California;

- The C-Mod Research team performs and supports research on the C-Mod tokamak at the Massachusetts Institute of Technology in Cambridge, Massachusetts; and

- The International Collaborations team performs and supports research on the Joint European Torus tokamak in England, on the JT-60U tokamak in Japan, on the Large Helical Device stellarator in Japan, and on other facilities overseas.

- The Department achieves these goals by providing direction, support, and services, and by fostering an environment that encourages technical excellence, innovation and creativity, and professional growth while assuring quality, worker safety and health and protecting the environment.

- The Department's elements work with the Experimental Department for diagnostics and RF technology development activities and with the Engineering and Technical Infrastructure Department for computing, electrical engineering, mechanical engineering, and engineering analysis work.

- The Department's scientists interact with the Science Focus Groups at the Laboratory for topical integration and support and for inter-project scientific coordination.

- In addition to scientific personnel, experienced engineers and highly skilled technicians are contributing to the operations teams at remote sites and participate in the design, construction and installation of upgrades and modifications to these devices.