

PLASMA PHYSICS LABORATORY
INSTALLATION

ATOMIC ENERGY COMMISSION
AGENCY OR DEPT.

119

1. TYPE OF FEDERAL GOVERNMENT-OWNED INSTALLATION:

A. R&D LABORATORY

- (1) GOVERNMENT-OPERATED
(2) FFRDC
(3) CONTRACTOR-OPERATED

B. SUBSIDIARY R&D ORGANIZATION

- (1) GOVERNMENT-OPERATED
(2) CONTRACTOR-OPERATED

C. CONTRACTOR: Princeton University

2. DIRECTOR: Dr. Melvin Gottlieb

A. TECHNICAL DIRECTOR: Dr. Melvin Gottlieb

3. LOCATION: A. Princeton
(Nearest City)

B. Middlesex
(County)

C. New Jersey
(State)

4. P. O. ADDRESS: Plasma Physics Laboratory, AEC, P. O. Box 451

A. Princeton
(City)

B. N. J.
(State)

C. 08540
(Zip Code)

D. 609 452-5600
(Telephone (Area Code & No.))

5. PERSONNEL: (As of June 1968):

A. R&D PROFESSIONALS (Total): 119

6. FUNDING (Approximate FY 1968 Dollar costs):

A. INTRAMURAL (Total): \$ (See Item 9)

B. ALL OTHER PERSONNEL (Total): 257

B. EXTRAMURAL (Total): \$ 0

7. MAJOR FUNCTIONS AND ACTIVITIES (Include COSATI Codes):

Conducts research involving the theory, design, construction and operation of devices for producing controlled thermonuclear fusion reactions (18-01 Fusion Devices).

Conducts theoretical and experimental research on the properties of plasmas necessary to achieve the basic scientific understanding required for above objectives. (20-09 Physics - Plasma Physics).

A. ADDITIONAL COSATI CODES:

SURVEY OF FEDERAL GOVERNMENT RESEARCH AND DEVELOPMENT LABORATORIES

Conducted By THE NATIONAL SCIENCE FOUNDATION For The
FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY

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8. MAJOR EQUIPMENT:

The Laboratory has a wide range of specialized equipment and facilities for plasma production and diagnostics.

Model C Stellarator
 Spherator
 Etude Stellarator
 Stellarator Control Console and Equipment
 Q-3 Cesium Plasma Device
 Q-1 Cesium Plasma Device
 L-2 Linear Plasma Containment Device
 L-4 Linear Plasma Containment Device

Extensive engineering facilities for production of high magnetic fields, superconducting systems, ultra high vacuum systems, and very high power radiofrequency system.

9. COMMENT AND PUBLICATION REFERENCES:

The Plasma Physics Laboratory has published numerous reports on its experimental and theoretical activities. The Laboratory's activities are summarized in annual reports under USAEC contract AT(30-1)-1238:

Reference: MATT Q-26 Annual Report for 1968
 MATT Q-25 Annual Report for 1967
 MATT Q-24 Annual Report for 1966

		(Millions)
Item 6.A.	Operating costs	\$ 7.4
	Equipment costs	0.2
	Construction costs	0.2
	Total AEC costs	<u>\$ 7.8</u>

10. DATE OF REPORT: October 1969