

TEMPORARY CHANGE REQUEST

TCR NO. ESH D_Sect5_Ch1_R3-TCR-002

(e.g., TCR-ENG-021-001)

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: Ray Jeanes

Department Name: Facilities and Site Services Phone Ext: 2532

Document Number: ES&HD5008, Sect. 5, Chapt. 1 Revision No.: 3

Document Title: "Fire Protection Overview"

Reason for change:

Update the size of the site and reflect changes in plant configuration.

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

Site description changed from 72 to 88 acres, mention of C-Site cooling tower basin as a water source deleted, source of potable water changed from Elizabethtown to NJ American and sentence regarding potable hydrants revised.

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 Viola

Department/Division Head Approval

4/24/13

Date

J. DeLooper

Head, Best Practices and Outreach

4/25/13

Date

Release/Effective date of this TCR: 4/25/13

Incorporate this TCR into next revision of this document? Yes X No_

PPPL	PRINCETON PLASMA PHYSICS LABORATORY ES&H DIRECTIVES		
	ES&HD 5008 SECTION 5, CHAPTER 1 FIRE PROTECTION OVERVIEW		
Approved	Date: 02/15/99	Revision 3	Page 1 of 2

ESHD_Sect5_Ch1_R3-TCR-002

CHAPTER 1 FIRE PROTECTION OVERVIEW

1.1 SITE OVERVIEW

1.1.1 PPPL facilities consist of approximately 500,000 square feet of office, research, shop, and storage areas located on 88 acres of the James Forrestal Campus of Princeton University. Close to 100% of the facilities are protected by some form of automatic fire suppression system backed-up by a full-time emergency response capability provided by the Emergency Services Unit of the Site Protection Division.

1.1.2 Primary fire protection water is supplied from a 250,000-gallon gravity discharge storage tank located at the south end of C-Site. This tank provides water for fire protection and non-fire protection processes through 10 inch water mains which loop around C- and D- Sites. An automatic secondary supply is provided to the elevated tower by a connection to the NJ American water supply via an altitude valve. In the event the water level falls below the level normally maintained by the canal water system, the altitude valve opens and restores the level. The NJ American water distribution system consists of a single loop having portions of the loop on C- and D-sites. Strategically placed hydrants provide backup to the canal hydrants which may not be as convenient but is usable, if necessary.

ESHD_Sect5_Ch1_R3-TCR-002

1.1.3 A table listing of the automatic fire detection and suppression systems is located in Appendix A, Table 1, "Automatic Fire Protection Systems."

1.1.4 A table listing the buildings/structures and their occupancy classification is located in Appendix A, Table 3, "Occupancy Classifications."

1.2 POLICY

1.2.1 It is the policy of PPPL that all reasonable precautions shall be taken in the performance of its tasks to protect the employees, visitors, neighbors, property, and the environment from injury.

1.2.2 To fulfill this policy the objectives of the PPPL Fire Protection Program are:

- A. To take all reasonable actions to prevent fires from occurring.
- B. To design and maintain all PPPL facilities in a manner that provides the occupants with the earliest possible notification of an emergency and the proper number and means of egress to safely exit facilities in an emergency.
- C. To design and maintain all PPPL facilities in a manner that if a fire occurs, the spread of the fire will be minimized through the use of building construction techniques and automatic fire suppression systems.

ESHD_Sect5_Ch1_R3-TCR-002

- D. To provide a manual fire fighting response capability through the staffing of an on-site fire department.
- E. To train all personnel working or visiting the facility in fire prevention techniques and actions to be taken in the event of a fire or other type of similar emergency.