TEMPORARY CHANGE REQUEST

TCR NO. ***TCR-ESHD5008-Sect 2,Chapt 16,R6-001***

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: Jerry Levine

Department Name: ES&H/Infrastructure Support **Phone Ext:** 3439

Document Number: ESHD5008 Section 2, Chapter 16 **Revision No.:** 6

Document Title: References

Reason for change:
Changes to site versions of NFPA 70 and NFPA 70E that are required by 10 CFR Part 851. Also, eliminated outdated information.

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

Reference K for NFPA standards now cites 2005 version of NFPA 70 and 2004 version of NFPA 70E, as required by 10CFR851. Also, deleted mentions of locations in Mod VI where references can be located, since these may no longer be accurate. Other minor related changes were made, as well.

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:

_____

Jerry Levine **1/15/07**
Department/Division Head Approval **Date**

J.W. Anderson **1/17/07**
Head, ES&H and Infrastructure Support/designee **Date**

Release/Effective date of this TCR: **1/17/07**

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

CHAPTER 16 REFERENCES

NOTE: All references below may not be current editions. The latest revision should be used when referring to references (with the exception of NFPA 70 and NFPA 70E).

A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI C2	National Electrical Safety Code (NESC)
ANSI C39.5	Safety Requirements for Electrical and Electronic Instrumentation.
ANSI C84.1	Voltage Ratings (60 Hertz) for Electrical Power Systems and Equipment.
ANSI Z87.1	American National Standard for Occupational and Educational Eye and Face Protection
ANSI Z89.2	Protective Headware for Industrial Workers
ANSI Z535.2	Environmental and Facility Safety Signs
ANSI Z535.3	Criteria for Safety Symbols
ANSI Z535.4	Product Safety Signs and Labels
ANSI Z535.5	Accident Prevention Tags (for Temporary Hazards)

B. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

ASTM Specification D178	Standard Specification for Rubber Insulating Matting
ASTM Specification F855	Standard Specifications for Temporary Grounding Systems to be used on De-Energized Electric Power Lines and Equipment
ASTM Specification F1236	Guide for Visual Inspection of Electrical Protective Rubber Products
ASTM Specification F1506	Standard Specification for Protective Wearing Apparel for Use by Electrical Workers when Exposed to Momentary Electric Arc and Related Thermal Hazards

C. CABLE INSTALLATION MANUAL (Published by the Anaconda Co., Wire and Cable Div.)

D. CODE OF FEDERAL REGULATIONS (CFR)

Title 29, Part 1910 and Part 1926	Occupational Safety and Health Standards (OSHA)

E. FACTORY MUTUAL ENGINEERING CORPORATION (FMEC)

Loss Prevention Data Sheet 5-4/14-8	Transformers
Loss Prevention Data Sheet 5-19/14-21	Switchgear and Circuit Breakers
Loss Prevention TAB 5-20/14-22	Recommendations for Electrical Testing
Loss Prevention Data Sheet 5-27/14-27	Programmable Controllers
Loss Prevention Data Sheet 5-31/14-5	Cables and Bus Bars

F. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

IEEE Standard 80	Guide to Safety in Substation Grounding
IEEE Standard 100	Dictionary of Electrical and Electronic Terms
IEEE Standard 142	Recommended Practice for Grounding of Industrial and Commercial Power Systems
IEEE Standard 446	Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications
IEEE Standard 510	Recommended Practices for Safety in High-Voltage and High-Power Testing

IEEE Transactions Vol. PAS-102, No. 5, May 1983 (82-SM-476-0) - A Range of Body Impedance Values for Low-Voltage, Low-Source Impedance Systems of 60 Hz - by M.S. Hammam

G. INSULATED CABLE ENGINEERS ASSOCIATION (ICEA)

Publication No. P-32-382	Short-Circuit Characteristics of Insulated Cables

H. INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

Pub. 479-1	Effects of current passing through the human body
Pub. 900	Hand tools for live working (sic) up to 1000 V ac and 1500 V dc
Pub. 903	Specifications for gloves and mitts of insulating material for live working (sic)

I. INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)

ATS Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems
MTS Maintenance Testing Specifications for Electrical Power Distribution Equipment and Systems

J. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA Standard ICS 1	General Standards for Industrial Control and Systems
NEMA Standard ST 20	Dry-Type Transformers for General Applications

K. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70	National Electrical Code (NEC) (2005)
NFPA 70E	Standard for Electrical Safety in the Workplace (2004)
NFPA 70HB	National Electrical Code Handbook
NFPA 70B	Electrical Equipment Maintenance
NFPA 77	Static Electricity
NFPA 79	Electrical Standard for Industrial Machinery
NFPA 101	Life Safety Code
NFPA 780	Lightning Protection Code

L. NATIONAL SAFETY COUNCIL (NSC)

OS&H Textbooks	MORT Safety Assurance Systems
Data Sheet I 598	Flexible Insulating Protective Equipment for Electrical Workers
Data Sheet I 670	Working Alone in R&D Laboratories

M. ORDERS OF THE US DEPARTMENT OF ENERGY (DOE)

The change dates of the Orders listed below are the dates that were current prior to release of Revision 4 of ES&HD 5008, Section 2.0.

DOE-HDBK-1092-98	DOE Handbook- Electrical Safety
DOE 1300.2A	Department Of Energy Technical Standards Program, 5/19/92
DOE 232.1A	Occurrence Reporting and Processing of Operations Information, 7/21/97
DOE 5480.19	Conduct of Operations Requirements for DOE Facilities, 5/18/92
DOE 5480.20A	Personnel Selection, Qualification, and Training Requirements,-11/15/94
DOE 5480.21	Un-reviewed Safety Questions, 12/24/91
DOE 5480.22	Technical Safety Requirements, 9/15/92
DOE 420.1	Facility Safety, 10/24/96
DOE 440.1	Worker Protection Management For Doe Federal And Contractor Employees, 10/21/96
DOE 5481.1B	Safety Analysis and Review System, 9/23/86
DOE 6430.1A	General Design Criteria Manual, 4/6/89
DOE/ID-10600	Electrical Safety Guidelines 9/01/93
DOE/TIC-11603	Nonreactor Nuclear Facilities: Standards and Criteria Guide, Brynda Guide Rev. 1
DOE-EV-0051/1	Electrical Safety Criteria for Research and Development Activities

N. PRINCETON PLASMA PHYSICS LABORATORY (PPPL)

ES-COMP-003	Personnel Safety Interlock System Design Standard
ES-ELEC-004	Electrical Construction Specification for Installations Operated at 600 Volts and Below
ENG-011	Interlock Key Control
ENG-028	Penetration Cutting / Drilling
ESH 001	Use of Safety, Accident Prevention, and Equipment Tags
ESH 002	Facility Safety Signs
ESH-014	National Environmental Policy Act (NEPA) Review System.

ESH 016	Control of Hazardous Energy Sources Via Lockout/Tagout of Energy Isolation Devices
GEN-006	Occurrence Reporting and Processing of Operations Information
PPPL-O-027	Line Management Safety Organization
PPPL-P-046	Cable Tagging and Removal
PPPL-STD-001	Programmable Logic Controller (PLC) Qualification/Application Standards TFTR
PM.505	Work Rules for Class C & D Energized Electric Circuits - 6/12/91–FED
OP-AD-100	Instructions and Requirements for Writing, Reviewing and Approving PPPL Procedures –PPPL Document Control Center

O. OMITTED

P. UNDERWRITERS LABORATORIES, INC. (UL)

UL Standard 96A	Installation Requirements for Lightning Protection Systems
UL Standard 467	Grounding and Bonding Equipment
UL Standard 1063	Machine-Tool Wire and Cables UL Standard 1244 - Electrical and Electronic Measuring and Testing Equipment
UL Standard 1244	Electrical and Electronic Measuring and Testing Equipment