

Applicability: this form shall be prepared as early as possible for each new or continuing activity at PPPL. Physical implementation of PPPL activities shall not proceed prior to NEPA certification of this form.

Originator: Erik D. Perry **WP/Project #:** 1497, 1503-8, 1511-12

Project/Organization: NSTX **Total Estimated Cost:** \$95 M

Title of Activity/Change: NSTX Upgrade Project

Description of Activity: [include physical description of activity, purpose, location, changes to any operating parameters or approved environmentally related limits, potential or actual ES&H impacts, as applicable. [Attach additional sheets if needed] Circle one of these choices: **GENERIC** (UNIQUE)

1. Design, fabricate and install an upgraded centerstack on NSTX
2. Design, fabricate/rework, assemble and install a second Neutral Beam on NSTX

ES&H Considerations: Will the change/activity, either individually or cumulatively with other known activities, result in changes and/or disturbances to the following entities (see Attachment 2 for directions on answering)*

	YES	NO		YES	NO
1: Air Emissions	<u>X</u>	___	13: Sewage System	___	<u>X</u>
2: Liquid Effluent	<u>X</u>	___	14: Water/Energy Use	___	<u>X</u>
3: Domestic Waste	<u>X</u>	___	15: Pesticide Use	___	<u>X</u>
4: Radioactive Waste	<u>X</u>	___	16: Chemical Use/Storage	<u>X</u>	___
5: Hazardous Waste	___	<u>X</u>	17: Petroleum Use/Storage	___	<u>X</u>
6: Mixed Waste	___	<u>X</u>	18: Radiation Exposure	<u>X</u>	___
7: Asbestos Waste	___	<u>X</u>	19: Impacts to Workers	<u>X</u>	___
8: Wetlands	___	<u>X</u>	20: Noise Levels	___	<u>X</u>
9: Floodplains	___	<u>X</u>	21: Pollution Prevention Applies	___	<u>X</u>
10: Indoor/Outdoor Clearing or Excavation	___	<u>X</u>	22: Stored Energy	___	<u>X</u>
11: Soil Movement	___	<u>X</u>	23: Fire Safety Issues	<u>X</u>	___
12: PPPL Water Systems	___	<u>X</u>	24: Electrical/RF/Lasers	___	<u>X</u>

* Provide any necessary explanations on a separate sheet attached to this form

The undersigned have reviewed the description and assessment of ES&H considerations and state that they are accurate and complete.

Work will not proceed until NEPA certified form (page 2) is received by cognizant person.

COG PERSON/ATI: [Signature] DATE: 3/3/09
 DIV HEAD/RLM: Erik D. Perry DATE: 3/3/09

NSTX Upgrade Project – NEPA Considerations notes

1. Air Emissions: Tritium evolved during decon activities and subsequent operations on components from inside the neutral beamline will be exhausted to the monitored D-site stack. Site limits will not be exceeded. - applies to NB decon work addressed in NSPA #1440; impacts addressed in DOE/OA-0813
2. Liquid Effluent: Any radioactive liquid effluent not solidified or absorbed will be drained to the LECTs and sampled to verify releasability to the sanitary sewer system. - applies to NB decon work addressed in NSPA #1440; impacts addressed in DOE/OA-0813.
3. Domestic Waste: Normal trash from shop operations.
4. Radioactive Waste: Some internals from the TFTR neutral beam (beam dump, scrappers, etc) will be packaged and shipped for burial as low level radioactive waste. - applies to NB decon work addressed in NSPA #1440, impacts addressed in DOE/OA-0813.
16. Chemical Use/Storage: Routine chemicals for shop work such as cutting fluids, solvents to clean oils off copper and stainless, rust neutralizer, and paint.
18. Radiation Exposure: Due to tritium evolved during removals, packaging for disposal, decon operations and subsequent rework of parts. - applies to NB decon work addressed in NSPA #1440; impacts addressed in DOE/OA-0813.
19. Impacts to Workers: This work will include lockout/Tagout, particularly with the relocation of cabling and racks in the NSTX Test Cell.
23. Fire Safety Issues: Platform rework in the NSTX Test Cell will require revising fire detection and suppression systems under the platforms.

edp
3/3/09

1443

NEPA & SAFETY ANALYSIS REVIEW STATUS FORM

ACTIVITY: NSTX Upgrade Project

DATE RECEIVED & LOGGED IN: 3/6/09

READY FOR REVIEW:

NEPA PROCESS ON HOLD: To P50 on 3/27/09 for CX Request
Received 3/31/09

REASON

SAFETY ANALYSIS REVIEW

SAFETY ANALYSIS REVIEWER/DATE: J. Yi 3/27/09

SAFETY REVIEW/DOCUMENT. REQTS

JHA's required changes to the NSTX Safety Assessment Document (SAD) will be needed. ACC Review & possible Safety Certificate modifications are also likely.

REVIEW COMPLETE

ENV EVALUATIONS COMPLETED AND SIGNED BY ENVIRONMENTAL ENGINEER OR ALTERNATE)

NEPA FORMS READY TO BE SENT OUT

(NEPA PLANNING FORM CERTIFIED BY NEPA COMPLIANCE MANAGER)

NEPA FORMS SENT OUT

- ONE COPY-ORIGINATOR
 - ONE COPY-COGNIZANT PERSON
 - ONE COPY-DIVISION HEAD
 - ONE COPY-FACILITY MANAGER(S) FOR THE AREA(S) AFFECTED (Van Halbe)
 - ONE COPY-INDUSTRIAL HYGIENIST
 - ONE COPY-ER/WM DIVISION HEAD [IF HAZARDOUS OR RADIOACTIVE WASTES ARE INVOLVED]
 - ONE COPY-ENVIRONMENTAL ENGINEER [IF AIR EMISSIONS ARE INVOLVED]
 - ONE COPY-SITE PROTECTION DIVISION HEAD [IF HAZARDOUS MATERIALS ARE INVOLVED]
 - ONE COPY-OPERATIONS CENTER [IF A D-SITE CHANGE IS INVOLVED]
 - ONE COPY-SAFETY ANALYSIS REVIEWER (IF APPLICABLE)
 - ONE COPY-OTHERS OMO
- ORIGINAL-NEPA FILES)

pg 2 of 2 NEPA PLANNING FORM # 1443

NEPA Evaluation: (attach "Environmental Evaluation for PPPL Change Proposal" and "Environmental Evaluation Notification Form")

Covered by an existing DOE approved categorical exclusion? YES NO

_____ _____

If yes, specify _____

Approval for categorical exclusion required from DOE? _____

DOE approval: 10CFR102.1, App B, B3.13 Date: 3/30/09

Other NEPA documentation required? _____ _____

If yes, specify _____

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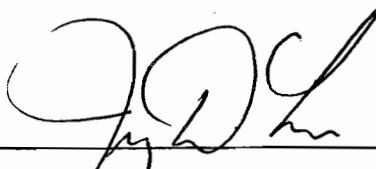
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NEPA Review for this Activity has been Completed :



NEPA Compliance Manager (or designee)

3/31/09

Date:

Printed copies of this document are considered UNCONTROLLED / Information Only copies.
The official document is at http://www.pppl.gov/eshis/PPPL_docs.shtml
The ES&H and Infrastructure Support Department maintains the signed original.