

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: Henry Carnevale WP/Project #: 1100

Project/Organization: M&O Total Estimated Cost: \$20K

Title of Activity/Change: NCSX Coil Test Facility N2 Exhaust Vent

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

The scope includes the labor and materials to remove the existing elephant ductwork and stations located in the D-Site Test Cell Basement and replace with a dedicated 8" aluminum exhaust duct from the Coil Test Facility to the Negative Pressure Fan RF-109/110 exhaust vent to Stack 7. The existing ductwork is tritium contaminated from past TFTR and D&D work activities.

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> </u>	<u>X</u>	13: Sewage System	<u> </u>	<u>X</u>
2: Liquid Effluent	<u> </u>	<u>X</u>	14: Water Use	<u> </u>	<u>X</u>
3: Domestic Waste	<u>X</u>	<u> </u>	15: Pesticide Use	<u> </u>	<u>X</u>
4: Radioactive Waste	<u>X</u>	<u> </u>	16: Chemical Use/Storage	<u> </u>	<u>X</u>
5: Hazardous Waste	<u> </u>	<u>X</u>	17: Petroleum Use/Storage	<u> </u>	<u>X</u>
6: Mixed Waste	<u> </u>	<u>X</u>	18: Radiation Exposure	<u>X</u>	<u> </u>
7: Asbestos Waste	<u> </u>	<u>X</u>	19: Impacts to Workers	<u> </u>	<u>X</u>
8: Wetlands	<u> </u>	<u>X</u>	20: Noise Levels	<u> </u>	<u>X</u>
9: Floodplains	<u> </u>	<u>X</u>	21: Pollution Prevention Applies	<u> </u>	<u>X</u>
10: Indoor/Outdoor Clearing or Excavation	<u> </u>	<u>X</u>	22: Stored Energy	<u> </u>	<u>X</u>
11: Soil Movement	<u> </u>	<u>X</u>	23: Fire Safety Issues	<u> </u>	<u>X</u>
12: PPPL Water Systems	<u> </u>	<u>X</u>	24: Electrical/RF/Lasers	<u> </u>	<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: Henry Carnevale DATE: 6/18/04

DIV HEAD/RLM: [Signature] DATE: 6/18/04

Attachment

NEPA 1327

3. Duct support steel (est. 1000#).

4. ~~5.~~ Galvanized sheet metal (est. 2000#) and elephant trunk remnants (est. 100#).

16. Ductwork is internally contaminated. Possible radiation exposure from contaminated duct internals and dust generated during removal and disposal activities.

pg 2 of 2 NEPA PLANNING FORM # 1327

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

Item G of Routine Maint - CX

Approval for categorical exclusion required from DOE ?

DOE approval:

Date:

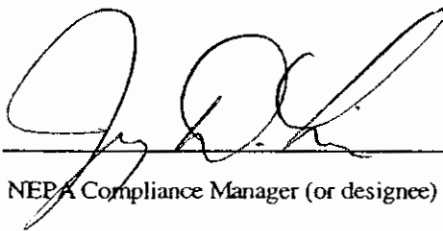
Other NEPA documentation required ?

If yes, specify

Approved NCSX EA (DOE/EA-1937);
FOANSI issued 10/25/02

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NEPA Review for this Activity has been Completed :


NEPA Compliance Manager (or designee)

6/22/04
Date:

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NEPA & SAFETY ANALYSIS REVIEW STATUS FORM

ACTIVITY: NCSX Coil Test Facility N₂ Exhaust Vent

DATE RECEIVED & LOGGED IN: 6/17/04

READY FOR REVIEW:

NEPA PROCESS ON HOLD: _____

	REASON
SAFETY ANALYSIS REVIEW	
SAFETY ANALYSIS REVIEWER/DATE:	<u>Jch 6/2/04</u>
SAFETY REVIEW/DOCUMENT. REQTS	<u>IHA & pre-job brief required. RWP & HP coverage required.</u>

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-~~ERAM~~ 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 _____
- ORIGINAL-NEPA FILES)

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ENVIRONMENTAL EVALUATION FOR PPPL CHANGE PROPOSAL
NCSX COIL TEST FACILITY NITROGEN EXHAUST VENT
 TITLE OF CHANGE OR PROJECT

H. CARNEVALE
 COGNIZANT PERSON

1100
 PROJECT NUMBER

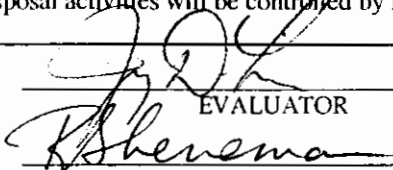
E v a l u a t i o n

ISSUE	APPLICABILITY		POTENTIAL IMPACT			ISSUE	APPLICABILITY		POTENTIAL IMPACT		
	A	NA	N	NAI	AI		A	NA	N	NAI	AI
CONSTRUCTION ACTIVITY						LAND USE CONSIDERATION					
DUST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WETLANDS/ FLOODPLAINS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NOISE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CRITICAL HABITATS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ARCHAEOLOGICAL SITES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EFFLUENTS AND CONTAMINANTS						FACILITY CONSIDERATIONS					
SOLIDS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AESTHETICS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LIQUIDS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PUBLIC RELATIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GASES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENERGY EMISSIONS						CATEGORICAL EXCLUSION		YES	<input type="checkbox"/>		
RADIATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		NO	<input checked="" type="checkbox"/>			
OTHER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Covered under Item G of Routine Maintenance CX & approved NCSX EA (DOE/EA-1437)					
APPLICABILITY: A - APPLICABLE, NA - NOT APPLICABLE POTENTIAL IMPACT: N - NONE, NAI - NO ADVERSE IMPACT (POSSIBLE IMPACT BUT NOT EXPECTED TO BE HARMFUL), AI - ADVERSE IMPACT											

COMMENTS & CONCLUSIONS

ANY APPLICABLE ISSUE REQUIRES COMMENT STATEMENT - USE ADDITIONAL PAGES IF NECESSARY.

About 1,000 lbs of solid domestic waste (duct support steel) and 2,100 lbs of tritium-contaminated radioactive waste (galvanized sheet metal and elephant trunk remnants) will be generated. Ductwork is internally contaminated with tritium from past TFTR operations and D&D activities. Potential radiation exposures from contaminated duct internals and dust generated during removal and disposal activities will be controlled by following the Radiation Work Permit, and HP instructions.


 EVALUATOR
 PPPL ENVIRONMENTAL ENGINEER (OR DESIGNEE)

6/21/04
 EVALUATION DATE
6/22/04
 APPROVAL DATE

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ENVIRONMENTAL EVALUATION NOTIFICATION FORM

Grantee/Contractor Laboratory: Princeton University/Princeton Plasma Physics Laboratory (PPPL)
Project/Activity Title: NCSX Coil Test Facility Nitrogen Exhaust Vent
CH NEPA Tracking No.: Type of Funding
B&R Code: Total Estimated Cost:

DOE Cognizant Secretarial Officer (CSO): Raymond L. Orbach

Contractor Project Manager: Signature:
Date:

Contractor NEPA Reviewer: Jerry D. Levine Signature:
Date: 6/22/04

- I. Description of Proposed Action: This activity will remove the existing elephant trunk ductwork and stations in the D-Site Test Cell Basement (TCB) and replace them with a dedicated 8" aluminum exhaust duct from the NCSX Coil Test Facility...
II. Description of Affected Environment: Work will take place in the D-Site Test Cell Basement and in the Radioactive Waste Handling Facility...
III. Potential Environmental Effects: (Attach explanation for each "yes" response, and "no" responses if additional information is available and could be significant in the decision making process.)

A. Sensitive Resources: Will the proposed action result in changes and/or disturbances to any of the following resources?

Table with 2 columns: Resource description and Yes/No response. Resources include Threatened/Endangered Species, Wetlands, Archaeological/Historic Resources, etc.

B. Regulated Substances/Activities: Will the proposed action involve any of the following regulated substances or activities?

	<u>Yes/No</u>
13. Clearing or Excavation (indicate if greater than 5 acres)	13. No
14. Dredge or Fill (under Clean Water Act section 404; indicate if greater than 10 acres)	14. No
15. Noise (in excess of regulations)	15. No
16. Asbestos Removal	16. No
17. PCBs	17. No
18. Import, Manufacture or Processing of Toxic Substances	18. No
19. Chemical Storage/Use	19. No
20. Pesticide Use	20. No
21. Hazardous, Toxic, or Criteria Pollutant Air Emissions	21. No
22. Liquid Effluent	22. No
23. Underground Injection	23. No
24. Hazardous Waste	24. No
25. Underground Storage Tanks	25. No
26. Radioactive (AEA) Mixed Waste	26. No
27. Radioactive Waste <i>About 2,100 lbs of tritium-contaminated radioactive waste (galvanized sheet metal and elephant trunk remnants) will be generated.</i>	27. Yes
28. Radiation Exposures <i>Radiation exposures will be controlled by following the Radiation Work Permit and HP instructions.</i>	28. Yes

C. Other Relevant Disclosures. Will the proposed action involve the following?

	<u>Yes/No</u>
29. A threatened violation of ES&H regulations/permit requirements <i>All activities will be performed in accordance with ES&HD 5008. JHA and pre-job briefing are require, including RWP briefing.</i>	29. No
30. Siting/Construction/Major Modification of Waste Recovery, or TSD Facilities	30. No
31. Disturbance of Pre-existing Contamination	31. No
32. New or Modified Federal/State Permits	32. No
33. Public controversy	33. No
34. Action/involvement of Another Federal Agency (e.g. license, funding, approval)	34. No
35. Action of a State Agency in a State with NEPA-type law. (Does the State Environmental Quality Review Act Apply?)	35. No
36. Public Utilities/Services	36. No
37. Depletion of a Non-Renewable Resource	37. No

IV. **Section D Determination:** Is the project/activity appropriate for a determination by the OM under Subpart D of the DOE NEPA Regulations for compliance with NEPA?

N/A

DOE-PSO NCO Review:

DOE-PSO NEPA Compliance Officer (NCO): Allen Wrigley

Signature: N/A Date: _____

Concurrence with Proposed Class of Action Recommended

CX EA EIS

Category

V. **DOE Recommendation Approval:**

SC GLD: Irene Atney Signature: N/A

Date: _____

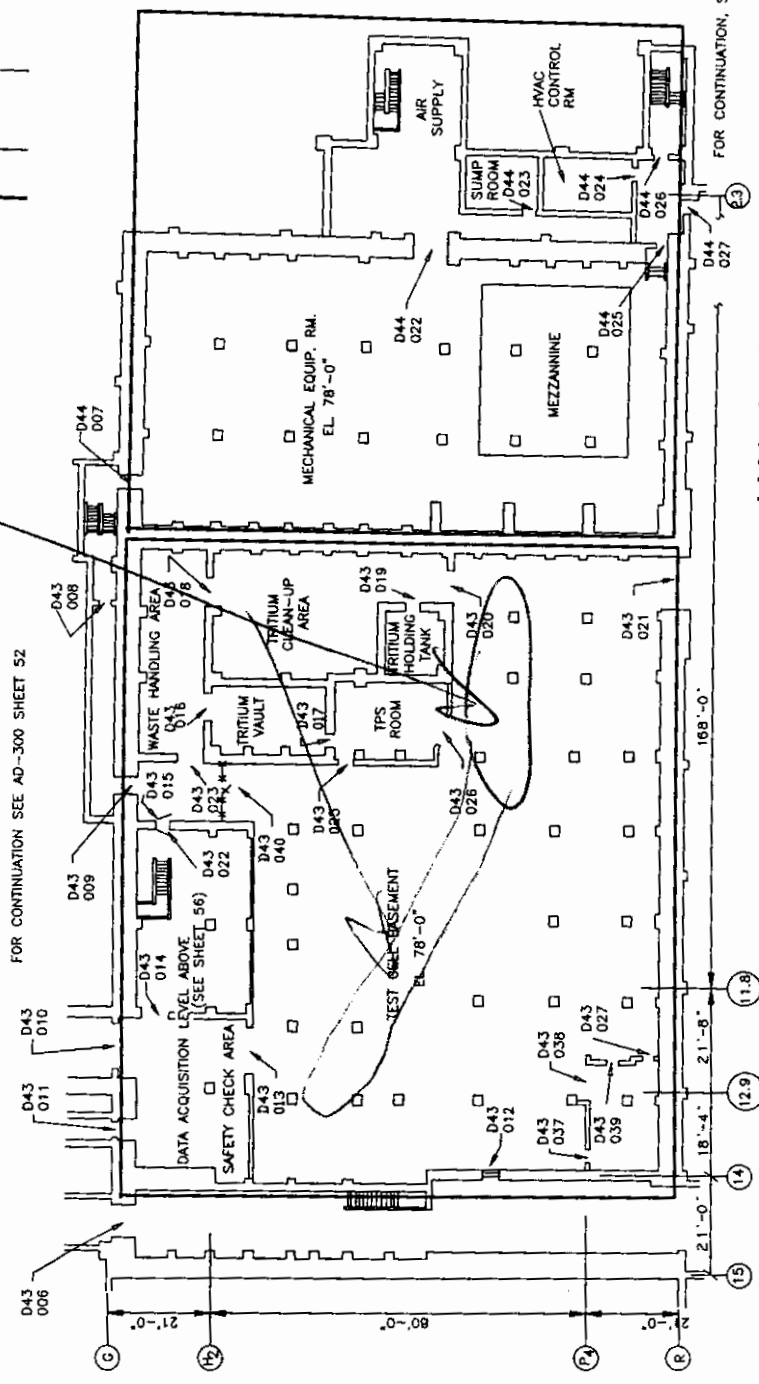
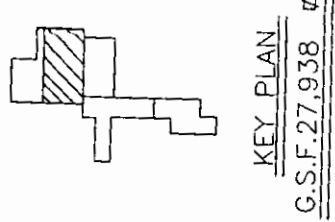
VI. **Office Manager Subpart D CX Determination and Approval:**

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR Part 1021.410, and SEN-15-90 to establish that an action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for the Categorical Exclusion referenced above. Therefore, by my signature below, I have determined that the proposed action may be categorically excluded from further NEPA review and documentation.

PSO Office Mgr: Jerry W. Faul Signature: _____ N/A

Date: _____

NO.	DATE	REVISION	BY	CH	APP



J.W. Anderson

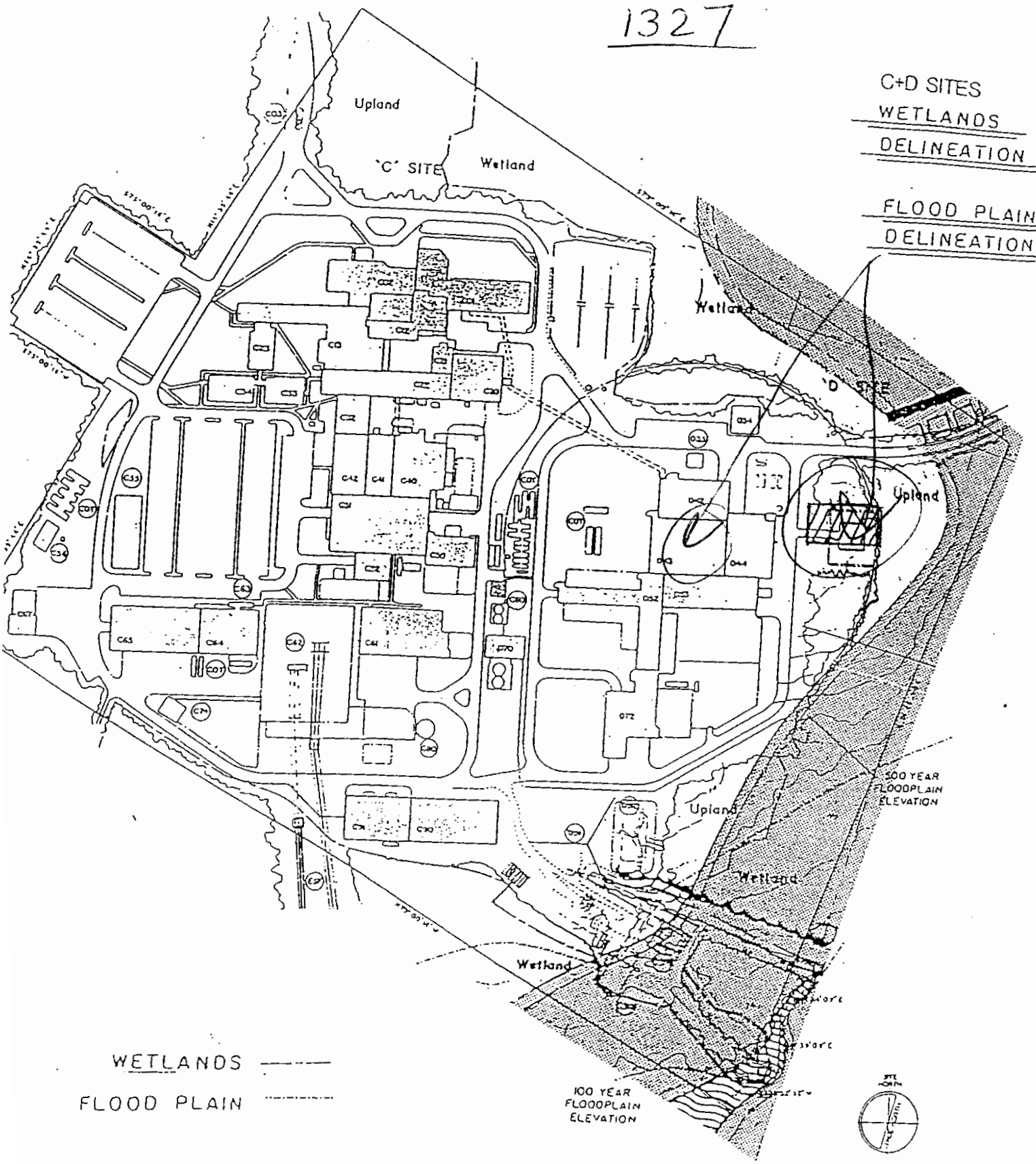
M. ONO

PRINCETON PLASMA PHYSICS LABORATORY
C & D SITES
BUILDING FLOOR PLANS
EXPERIMENTAL AREA
LOWER BASEMENT PLAN

DR. P.M. & E.	LOCAL CAD NO.	DATE: 1/10/02
ENG. C. POTENSKY	OBAD3055	B-AD-300
DR. J. SIEGEL	APPROVALS	
CH. S. FLOHR	SF.	CAP
	JS	SHEET NO. 55

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C+D SITES
WETLANDS
DELINEATION

FLOOD PLAIN
DELINEATION

WETLANDS ———
 FLOOD PLAIN - - - - -

100 YEAR
 FLOODPLAIN
 ELEVATION

500 YEAR
 FLOODPLAIN
 ELEVATION

'SHADE INDICATES STREAM PROTECTION CORRIDOR
 PER PRINCETON FORRESTAL CENTER STORMWATER
 MANAGEMENT PLAN, 1980

0 100 300 500 FT.

SITE PLAN
 PRINCETON UNIVERSITY
 PLASMA PHYSICS LABORATORY