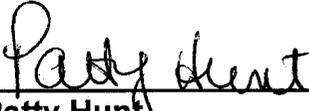


**U.S. DEPARTMENT OF ENERGY  
THOMAS JEFFERSON SITE OFFICE**

**NATIONAL ENVIRONMENTAL POLICY ACT  
IMPLEMENTATION AT THE THOMAS JEFFERSON NATIONAL  
ACCELERATOR FACILITY**

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Date: 4/9/08

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## National Environmental Policy Act Implementation At The Thomas Jefferson National Accelerator Facility

### 1.0 OBJECTIVE

Effective and efficient Implementation of the National Environmental Policy Act (NEPA) at the Thomas Jefferson Site Office (TJSO), combining resources provided by the Office of Science, Oak Ridge Office, and the DOE contractors in order to comply with DOE Order 451.1 B , 10 CFR 1021, 10 CFR 1022, *Compliance with Floodplain and Wetland Environmental Review Requirements* (68 FR 51429, Wednesday, August 27, 2003), and 40 CFR 1500-1508, *Council on Environmental Quality NEPA Regulations*.

### 2.0 SCOPE

The Department of Energy (DOE) and the Jefferson Science Associates (JSA) have entered into a performance based contract for the management and operation of the Thomas Jefferson National Accelerator Facility (Jefferson Lab or TJNAF) which has been designated a low-hazard, non-nuclear accelerator facility. In addition to legal and regulatory obligations, all NEPA requirements will be completed and approved by the DOE office with approval responsibility before JSA may undertake any proposed action that has not already been addressed in the following NEPA documents:

1. The DOE/EA-0257 Continuous Electron Beam Accelerator Facility (CEBAF) Environmental Assessment (EA) and Findings of No Significant Impact (FONSI), dated January 12, 1987, and three subsequent EAs:
  - DOE/EA-1204: October 1997, and FONSI dated November 5, 1997: Change in Operating Parameters of the Continuous Electron Accelerator Beam Accelerator Facility and Free Electron Laser
  - DOE/EA-1384: June 2002 and FONSI dated July 13, 2002: Proposed Improvements at the Thomas Jefferson National Accelerator Facility.
  - DOE/EA-1534 :January 2007 and FONSI dated January 30, 2007 : Proposed Upgrade and Operation of the CEBAF and FEL Accelerators and Construction and Use of Buildings Associated with the 2005 Ten-Year Site Plan
2. Existing Categorical Exclusions (CX's).

TJSO adopts the Office of Science Management System (SCMS) NEPA procedures with supplements as required to define site specific components. The TJSO responsibilities of NEPA Compliance Officer are assumed by the Oak Ridge Office. JSA is expected, as stated in the DOE/JSA Contract, to provide technical information and other assistance to the DOE in fulfilling DOE's environmental responsibilities defined under the (NEPA) and subsequent regulations. Recommendations of SCMS Procedure 12 to contract a professional NEPA document preparer will be implemented as much as possible because of complexity and associated steep learning curves that could result in substantial cost and schedule overruns.

This procedure details the required interaction of TJSO with other DOE Offices and the contractor to comply with the SCMS NEPA Procedures. Site specific supplements are listed for each procedure.

### 3.0 REFERENCES

- 3.1 10 CFR 1021, *DOE National Environmental Policy Act Implementing Procedures*
- 3.2 10 CFR 1022, *Compliance with Floodplain and Wetland Environmental Review Requirements* (68 FR 51429, Wednesday, August 27, 2003)
- 3.3 40 CFR 1500-1508, *CEQ Regulations for Implementing the Procedural Provisions of the National Environmental Quality Act*
- 3.4 DOE Order 451.1 B
- 3.5 SCMS Procedures 1 through 12, issued 3/11/2008: Implementing the National Environmental Policy Act (NEPA) Within the Office of Science (SC)
- 3.6 *Directory of Potential Stakeholders for DOE Actions under NEPA* (DOE, updated annually)
- 3.7 *National Environmental Policy Act Policy Statement, Memorandum signed by Hazel O'Leary, June 13, 1994*

### 4.0 RESPONSIBILITIES

- 4.1 TJSO Manager/Deputy Manager :
  - 4.1.1 Responsible for the effective implementation of NEPA at the TJNAF.
  - 4.1.2 Designates the NEPA Document Manager (NDM).
  - 4.1.3 Designates the TJNAF site specific NEPA organization for each activity requiring NEPA implementation.
  - 4.1.4 Ensures that new contracts include a provision that the awardee may not undertake on DOE's behalf an action that is subject to NEPA until DOE has notified the awardee that DOE has satisfied applicable NEPA requirements.
  - 4.1.5 Ensures that NEPA milestones are incorporated in project planning documents.
  - 4.1.6 Ensures that NEPA compliance status information is incorporated in internal budget review documents.
  - 4.1.7 Adopts the SCMS procedures for NEPA Implementation with additions as listed in this procedure.

4.1.8 When appropriate, request from the Assistant Secretary for Environment, Safety, and Health a variance from the NEPA requirements or from DOE Order 451.1B.

4.2 Oak Ridge Office

4.2.1 Designates the NEPA Compliance Officer (NCO).

4.2.2 Performs the NCO duties in support of TJSO.

4.3 TJSO Environmental Program Manager (EM) :

4.3.1 Acts as the DOE NEPA Document\_Manager (NDM) for TJSO.

4.3.2 Serves as primary contact with the DOE NEPA Compliance Officer.

4.3.3 Establishes necessary teams, schedule, and cost tracking for each NEPA process.

4.3.4 Develops the NEPA Environmental Checklists from information provided by the contractor and technical advisors.

4.3.5 Facilitates all public participation through the NEPA process.

4.3.6 Evaluates and provides lessons learned for all aspects of the process to facilitate continuous improvement.

4.3.7 Ensures that this procedure is updated as necessary to reflect revisions to SCMS procedures.

4.4 TJSO Office Manager

Files all NEPA process documentation.

**5.0 PROCEDURES**

5.1 SCMS Procedure 1: Implementing the National Environmental Policy Act:

Additions to the SCMS procedure are required: The TJSO Site Manager is responsible for ensuring that Oak Ridge Office provides the NEPA Compliance Officer (NCO).

5.2 SCMS Procedure 2: Establishing the Level of NEPA Review and Documentation :

Additions to the SCMS procedure are required:

The NDM must prepare an environmental checklist that is tailored to the site and to the planned activity. An example of an environmental checklist used at TJNAF is included in Attachment 2.

5.3 SCMS Procedure 3: Preparing Annual Planning Summaries and Monthly Reports:  
No additions to the SCMS procedure are required.

5.3.1 Monthly reports are required for updates on NEPA activities in progress and are prepared by the TJSO NDM.

5.3.2 Annual reports are prepared by the Integrated Service Centers within the Office of Science.

5.4 SCMS Procedure 4: Implementing Generic Exclusion Determinations: additions to The SCMS procedure is required.

The NDM must prepare an environmental checklist tailored to the planned activity and to the site, which is then used to facilitate the preparation of the CX (see example checklist, Attachment 2).

5.5 SCMS Procedure 5: Following the Environmental Assessment Process: additions To the SCMS procedure is required:

5.5.1 As activities are identified that require an EA, the TJSO NDM organizes the following teams:

5.5.1.1 NEPA Project Core Team consisting of contractor and TJSO representatives to tailor the NEPA assessment to ensure that internal scoping activities are fully identified and discussions of impacts/effects are in proportion to their importance for the affected environment. This group typically consists of the following representatives :

- Core Team Leader
- TJNAF Accelerator Representative
- TJNAF Physics Representative
- TJNAF Environmental Representative
- TJNAF Radiological Representative
- TJNAF Free Electron Laser Representative
- TJNAF Facilities Management Representative

5.5.1.2 Convened Team to provide guidance and direction when the NEPA Core Team reaches an impasse or requires further management advice or direction. This group consists of the following individuals:

- TJSO Manager
- Core Team Leader
- TJNAF Representative
- TJSO NEPA Document Manager

5.5.1.3 Technical Advisory Team consisting of contractor, TJSO and OR staff to review documents for adequacy and accuracy to ensure that a quality document is obtained, to provide specialized input as needed, and to provide recommendations for improvements. This group typically consists of the following individuals:

- DOE TJSO Representative
- ORO NEPA Compliance Officer
- ORO NEPA Office Representative
- DOE ORO Chief Counsel Office
- TJNAF EH&S
- TJNAF EH&S Physics Support
- TJNAF- FEL
- TJNAF Legal Counsel Representative
- TJNAF Accelerator Division
- TJNAF Facilities Management Director
- TJNAF Quality Assurance Department

5.5.2 The outcome is either a FONSI or a requirement to prepare an EIS.

5.6 SCMS Procedure 6: Following the Environmental Impact Statement Process: Additions to the SCMS procedure are required.

When the need for an EIS is determined, the TJSO NDM, under the direction of the NCO, organizes the NEPA Project Team, the Convened Team, and the Technical Advisory Team to implement the EIS, as described in the addition to SCMS Procedure 5.

5.7 SCMS Procedure 7: Complying with Floodplain and Wetland Requirements: no Changes to the SCMS procedure are required.

For TJSO, a floodplain/wetland assessment preparer will most likely be contracted to complete this procedure, due to the complexity and expertise required.

5.8 SCMS Procedure 8 : Managing Historic and Cultural Resources: no additions to The SCMS procedure is required.

5.9 SCMS Procedure 9: Conducting Public Participation Under the NEPA : additions To the SCMS procedure is required.

The stakeholder mailing list must be updated in the planning process. An example of the stakeholder list for the TJNAF 2007 EA-1534 is provided in Attachment 3.

5.10 SCMS Procedure 10: Preparing Quality Assurance Plans for the NEPA Process: Additions to the SCMS procedure are required.

The NDM must prepare a project specific quality assurance plan as directed by the NCO for especially complicated EA's and EIS's.

- 5.11 SCMS Procedure 11: Complying with the Endangered Species Act: No additions To the SCMS procedure is required.
- 5.12 SCMS Procedure 12: Obtaining a NEPA Document Preparer: no additions to the SCMS procedure is required.

## Attachment 1: Acronyms/Definitions

CX/categorical exclusion: An action with no measurable environmental impact which is described in one of the categorical exclusion lists in 40 CFR1508.4 sections 3.3 or 3.4 and for which no exceptional circumstances exist.

EA/environmental assessment: A brief NEPA document that is prepared to (a) help determine whether the impact of a proposed action or alternatives could be significant; (b) aid compliance with NEPA by evaluating a proposal that will have no significant impacts, but that may have measurable adverse impacts; or (c) evaluate a proposal that either is not described on the list of categorically excluded actions, or is on the list but exceptional circumstances (40 CFR 1508.9 section 3.5) apply.

EIS/environmental impact statement: A detailed NEPA document that is prepared when a proposed action or alternatives have the potential for significant impact on the human environment.

FONSI/finding of no significant impact: A determination based on an EA and other factors in the public planning record for a proposal that, if implemented, would have no significant impact on the human environment.

Human environment: The natural and physical environment, and the relationship of people with that environment.

NDM/NEPA Document Manager: TJSO NEPA Document Manager

NEPA process: The objective analysis of a proposed activity to determine the degree of its environmental and interrelated social and economic impacts on the human environment , alternatives and mitigation that reduce that impact, and the full and candid presentation of the analysis to, and involvement of, the interested and affected public.

Proposed action: An activity that has potential for significant impact to the human environment and is subject to Federal control and responsibility.

SCMS/ Office of Science Management System: The Office of Science Management System (SCMS) provides tools to help staff do their jobs more efficiently. Work procedures are identified from requirements documents, and categorized by subject area. The subject area defined as implementing the National Environmental Policy Act (NEPA) within the Office of Science (SC) contains a series of 12 procedures that are to be used by Heads of Field Organizations to effectively and efficiently devise procedures to apply the NEPA process. These procedures are found at: <http://SCMS.SC.doe.gov/> in the Environmental Safety and Health Management System.

**Attachment 2: Sample Environmental Checklist**

**JEFFERSON LAB PROPOSED ACTION INFORMATION CHECKLIST  
EMP-04B**

**NEPA BACKGROUND  
Proposed Action Information Checklist**

**Proposed Action Title:**

---

---

**NEPA Action Managers:**

---

**NEPA Action Funding:**

---

**Total Estimated Cost of  
NEPA Preparation:**

---

**Estimated Activity Start Date:**

---

**Information Compiled by:**

---

**General Information:**

Is the described actions part or parts of an ongoing EA or other NEPA activity?

Yes  No

Explain:

Are any extraordinary circumstances related to these actions?

Yes  No

Explain:

Are actions connected to other actions with potentially significant impacts?

Yes No

Explain:

**Location for the Proposed Action:**

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**DESCRIPTION OF THE PROPOSED ACTION**

*Provide a narrative description of the physical activities involved in setting up and/or performing the proposed activities. Include construction and operations and primary equipment to be used. Address timeframes. Describe the magnitude of the activity.*

*Provide as much quantitative information as possible relevant to the overall impact of the project on the environment.*

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**Activities (sample)**

1. Installation of Erosion and Control measures as necessary.
2. Removal of asphalt
3. Excavation of foundations
4. Concrete work
5. Erection of building
6. Removal of all debris to off site location
7. Jefferson Lab use of building for storing lead

**JUSTIFICATION AND NEED FOR THE PROPOSED ACTION/PROJECT**

**What problem is this action intended to solve, and how will this action solve it?**

*What alternative solutions to this particular problem exist? Are there different technologies or techniques that could also solve the problem? If so, why were they rejected?*

*Were alternative sites for this project considered? If so, why were they rejected?*

*What would be the consequence(s) of taking NO ACTION toward the problem?*

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**DESCRIPTION OF THE AFFECTED ENVIRONMENT AND SAFETY AND HEALTH ISSUES**

**Would any part of this activity involve work outside existing buildings?**

*If YES, provide a general description of the affected area and the geographic location. Indicate the entire extent of the project on the appropriate map.*

*Has the affected area ever been used as a chemical dispensing area, waste or product storage area, or been the site of any chemical spills? If so, describe.*

*Consider below ground effects, surface effects, and above ground effects.*

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## POTENTIAL ENVIRONMENTAL EFFECTS CHECKLIST

Items 1 to 31 are only shown as examples. They are to be updated to reflect the effects for the construction and expected building usage of the specific project being evaluated.

[Consider all activities that will be part of or necessary in support of this project. Include any work to be performed by subcontractors.]

### 1. ACTIVITY: The primary and related activities for this project would be:

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Indoor Bench-Scale Research	
	X		Indoor Pilot-Scale Research	
	X		Outdoor Research	
	X		Technology Development	
	X		Technology Demonstration	
	X		Chemical/Physical Analysis	
	X		Maintenance / Modification	
	X		Fabrication	Fabricated building is being purchased.
	X		Production	
X			Routine Operation	Lead will be moved in and out of the building by qualified staff.
	X		Non-routine Operation	
	X		Renovation Indoors	
X			New Construction	
X			Transportation On-site	Construction subcontractor and shifting the lead to indoor upon building completion.
X			Transportation Off site	Construction subcontractor activity.
	X		Clearing / Removal of Vegetation	
	X		Other	

### 2. Industrial Safety: Would activities (during construction or during operations) involve any of the following:

Yes       No       Uncertain   
Explain:

Yes	No	Unc	ACTIVITY	EXPLANATION
X			Excavation/Trenching/ Clearing [indicate total area affected]	Remove asphalt and dig foundations
	X		Utilities Lockout/ Tagout	
X			Crane Operations	For erection

	X		Welding / Cutting	
	X		Confined Space Entry	
	X		Blocking of Roads	
X			Use of Scaffolds	
X			Use of Fall Protection	For erection
	X		Use of Explosives	
	X		Use of Corrosives	
	X		Use of Incompatible Chemicals	
X			Use of Compressed Gas Cylinders	
	X		High Operating Pressures	
	X		X-Rays	
	X		Radiation Protection	
X			Other	Later building use – moving the lead into the building

**3. INDUSTRIAL HYGIENE PROTECTION:**

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		High Noise Level	
	X		Extreme Temperature	
	X		Non-ionizing Radiation	
	X		Ionizing Radiation <i>[refer to #10]</i>	
	X		Ergonomic Situations	
X			Respirator or Other Air Purifying Device	Moving lead and working in building after lead present
	X		Anti-contamination Protective Clothes	
	X		Confined Space	
	X		Sanitation	
	X		Other	

**4. RESPIRATORY PROTECTION:**

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Abrasive Blasting	
	X		Acid or Alkali Cleaning of Metals	
	X		Degreasing	

	X		Decontamination	
	X		Use of Coolant and Cutting Fluids	
X			Welding, Cutting, or Brazing	For erection
X			Grinding, Polishing, or Buffing	For erection, does not involve lead
	X		Metal Thermal Spraying	
X			Painting	Building structure
	X		Electroplating	
	X		Heat Treatment of Metal Alloys	
	X		Boiler Deslagging	
	X		Furnaces	
	X		Hoods	
X			Respirator or Other Air Purifying Devices	As noted in #3 above when working with lead
	X		Other, including work with radioactive materials	

**5. MATERIALS: Would any of the following be encountered (E), handled (H), stored (S), or used (U) or disposed (D) during any phase of the project?**

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Fissionable Materials	
	X		Radioactive Materials	
X			Hazardous Materials	Lead, with building usage
	X		Mixed Materials (Haz & Rad)	
X			Toxic Materials	See above
	X		PCBs	
X			Oils	Construction - Subcontractor equipment, including sawcutting tools Operations - none
	X		Asbestos	
	X		Fibrous Insulation	
	X		Organic Chemicals	
	X		Heavy Metals	
	X		Compressed Gases	
	X		Pesticides / Herbicides	
X			Petroleum	Excavator and crane use during construction
	X		Other	

**6. EQUIPMENT:** Would any of the following types of oil-containing equipment be used during any phase of the project?

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Transformers	
	X		Capacitors	
	X		Hydraulic Presses	
	X		Other Hydraulic Equipment	
	X		Large Light Ballasts	
	X		Vacuum Pumps	
	X		Other	

**7. LIQUID WASTES:** Would the project involve disposal or discharge of liquid wastes into any collection and/or treatment systems? What and how much?

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Sanitary Wastewater	
	X		Low-Level Rad Waste	
	X		Process Waste	
	X		Other Liquid Waste, e.g. sump discharges	
	X		Discharge to Soil	
	X		Storm Sewer / Surface Water	
	X		Other	

**8. SINKS/DRAINS:** Would any of the following be present in the project area? What and how much?

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Sinks	
	X		Sumps	
	X		Floor Drains	
	X		Fume Hood Drains	
	X		Storm Drains	
	X		Other	

**9. SOLID WASTES:** Would solid wastes be generated (G), stored (S), or disposed (D) of as a result of this project? What, how much, and characteristics, if known?

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Asbestos	
	X		Radioactive	
	X		RCRA Hazardous	

	X		Mixed	
	X		Non-hazardous	
	X		Radioactively Contaminated Wipes	
	X		Contaminated Wipes	
	X		Biohazard Wastes	
	X		Oily Wastes	
X			Other	Construction debris, nothing harmful

**10. AIRBORNE EMISSIONS: Would the project generate airborne emissions?**

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Radioactive <i>[provide dose levels to workers/public]</i>	
	X		Hazardous or Toxic	Lead storage
	X		Mixed	
X			Other	Construction dust

**11. POLLUTION PREVENTION (P2): Would any of the following waste minimization & P2 methods be applicable and considered for use for the proposed project?**

Yes	No	Unc	ACTIVITY (Accel. & Physics Div practices)	EXPLANATION
	X		P2 Practices	
	X		Waste Volume Reduction	
	X		Waste Toxicity Reduction	
	X		Waste Segregation	
	X		Equipment Reuse	
	X		Materials Recycling	Only small amount of asphalt involved
	X		Product/ Materials Substitution	
	X		Inventory Control	
	X		Energy Conservation	
	X		Other	

**12. OUTDOOR STORAGE:** Would the project utilize tank, drum, bottle, or other storage of any materials?

Yes  No  Uncertain  *Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Radioactive	
	X		Hazardous or Toxic	
	X		Mixed	
	X		Flammable Materials	
	X		Reactive Materials	
	X		Corrosive Materials	
	X		Explosive Materials	
	X		Shelf Chemicals	
	X		Old Chemicals	
	X		Oil	
	X		Pesticides / Herbicides	
	X		Petroleum	
	X		Other	Material being moved indoors at completion of building

**13. CHEMICAL OR BIOLOGICAL AGENT USE:** Will this project result in the storage and/or use of chemicals or biochemical agents in the workplace?

Yes  No  Uncertain  *Not Applicable*   
 Explain: Building to house elemental lead

Activity	Chemical & Quantity	Storage Method

**14. ACCUMULATION, TREATMENT, OR RECYCLE AREAS:** Would the project involve any of the following? Describe and quantify.

Yes  No X  Uncertain  *Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		RCRA Satellite Areas	
	X		RCRA Central Accumulation Area	
	X		Laundry Recycle	

X		Radioactive Material Storage	
X		Radioactive Waste Storage	
X		Other	

**15. BELOW GROUND STORAGE:** Would the project utilize below ground equipment or tanks for storage, control, or transport of materials?

Yes  No  Uncertain  Not Applicable

**16. RADIOLOGICAL AREAS:** Would the project be performed in any of the following radiological areas? Indicate locations, if appropriate.

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Low-Level Radiation Source Area	
	X		High Radiation Area	
	X		Regulated Area	
	X		Airborne Activity Area	
	X		Radiation Area	
	X		Very High Radiation Area	
	X		Contamination Area	
	X		Respirator Area	
X			Other	Located within the access-controlled accelerator site in the vicinity of a high radiation area.

**17. RADIATION PROTECTION CONTROLS:** Would any of the following protective or administrative controls be involved with the project? Will the project result in any exposure of workers or the public to radiation? If so, indicate dose levels.

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Radiation Work Permit	
	X		Radiation Worker Training	
	X		Respirator or Other Air Purifying Device	

	X		Anti-contamination Protective Clothes	
	X		Supplementary Dosimetry	
X			Other	Work in vicinity of high radiation building. No radiation issues in immediate vicinity of work. GERT training required to enter accelerator site.

**18. RADIATION SOURCES: Would the project involve the use or storage of any radiation sources?**

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		X-Ray Machine / Generator	
	X		Sealed Radioactive Material	
	X		Accelerator	
	X		Unsealed Radioactive Material	
	X		Ultraviolet Light Sources	
	X		Other	No radioactive waste would be stored

**19. OPERATIONAL READINESS: Would the activity involve one or more of the following?**

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Safety Review	
	X		Safety Class Items	
	X		Items under Configuration Control	
	X		Glove Boxes	
	X		Other	GERT training during construction and use. Lead worker training for building use.

**20. UNCONTROLLED RELEASES: Would measures be in place to manage possible uncontrolled emissions, discharge, or spills during any phase of the project?**

Yes  No  Uncertain

Explain: Construction subcontractor to provide secondary containment for fuel storage and install and maintain erosion and sediment control measures if identified needed.

**21. EMERGENCY RESPONSE: In the event of a release, would the following be readily available in the work area?**

Yes	No	Unc	ACTIVITY	EXPLANATION
X			MSDS Information	Subcontractor's responsibility Building manager to provide for operations.
X			Spill Control and Containment Materials	Subcontractor's responsibility Building manager to provide for operations.
X			Phone Numbers	Subcontractor's responsibility Building manager to provide for operations.
X			Portable Fire Extinguishers	Subcontractor's responsibility Building manager to provide for operations.
X			Warning Signs	Subcontractor's responsibility Building manager to provide for operations.
	X		Other	

**22. PERMITTING: Would the project/activity require application for or modification of any of the following permits?**

Yes	No	Unc	ACTIVITY	EXPLANATION
X			Excavation / Penetration	Will be issued by SOTR
	X		Burning Permit	
	X		Radiation Work Permit	
	X		Safety Work Procedure	
	X		Air Permit	
	X		Fugitive Emissions Permit	
	X		Existing VPDES Permit	Construction work in accelerator area may require agency notification
	X		Permit for Groundwater Dewatering	
	X		RCRA	
	X		Corps of Engineers	
	X		NESHAPs	
X			Stormwater Management	General requirements under VAR040079 for subcontractor to provide training to prevent pollution of storm water.
	X		Stormwater During Construction Activities	Not applicable.
	X		Other	

**23. GROUNDWATER PROTECTION:** Does the proposed project have any of the following existing or planned features or conditions? Will this project result in any activation of soil or groundwater?

Yes  No  Uncertain  Not Applicable

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Existing Wells or Boreholes	
	X		Existing Contaminated Groundwater	
	X		Excavations requiring Dewatering during Construction	
	X		Devices that could alter Groundwater Levels	
	X		New Monitoring Wells	
	X		New Soil Borings	

**24. PLANT/ANIMAL SPECIES:** Has the project area been surveyed for plants (or habitats of plants) or animals (or habitats) listed as follows?

Yes  No  Uncertain  Not Applicable

Explain: Included with 1987 EA. Survey updated in 2000. No expected impacts to plant/animals expected with this project.

**25. AQUATIC SPECIES:** Have waters in the project area been surveyed for aquatic species listed as follows?

Yes  No  Uncertain  Not Applicable

**26. HISTORICAL/ARCHEOLOGICAL:** Has the proposed site been surveyed for objects of historical/archeological significance?

Yes  No  Uncertain  Not Applicable

Explain:

**27. FLOODPLAIN:** Would the project encroach upon or take place within a floodplain?

Yes  No  Uncertain  Not Applicable

Explain:

**28. WETLANDS:** Are the following conditions present at any proposed site?

Note: Wetlands are not limited to standing water. Areas such as low forest, sedge meadows and stream banks may qualify.

Yes  No  Uncertain  Not Applicable   
Explain:

**29. SITE UTILIZATION:** Would the proposed project take place in any of the following?

Yes	No	Unc	ACTIVITY	EXPLANATION
X			Developed Site(s)	The site is paved
X			Disturbed Site(s)	The site is paved
	X		Undeveloped Site(s)	
	X		Pristine Area(s)	
	X		Other	

**30. EXCAVATION ACTIVITY:** If the project will require any construction activity involving excavation or soil disturbance, estimate the:

Area to be affected: \_\_\_\_\_

Volume of spoils: \_\_\_\_\_

Expected disposition of spoils:

What control measures will be used to avoid soil erosion? How far away are the nearest surface water bodies or drainage channels (including potential wetlands)?

### 31. ENVIRONMENTAL ASPECTS CHECKLIST

**ASPECTS:** The environmental aspects associated with this project are: *[sample aspects are shown]*

Aspect Category (air, wastewater, haz waste, solid waste, spill potential energy/nat. resources, other)	Aspect	Significant? (Y/N)	SOP number and name	Engineering Control (if needed)
<b>Construction</b>				
Spills	Oil or Oily Water spills	No	N/A	Secondary containment

Aspect Category (air, wastewater, haz waste, solid waste, spill potential energy/nat. resources, other)	Aspect	Significant? (Y/N)	SOP number and name	Engineering Control (if needed)
				of oil or other liquids
Construction Wastes	Non-hazardous waste	No	N/A	Off site disposal as in specifications
<b>Operations</b>				
Hazardous material transport and storage	Lead	Yes	EH&S Manual Ch. 6680, Lead Handling	
Air Emissions	Lead	No	N/A	To be identified as needed

Provide any other project detail or explanation below:

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This has been completed by Facilities Management to the best knowledge of the construction project scope and by the Jefferson Lab Environmental Engineer for future building usage. If conditions or project scope change or changes become evident, updated information will be provided to the Jefferson Lab Environmental Engineer.

**Attachment 3: Example Stakeholder Distribution List**

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