

## ENVIRONMENTAL COMPLIANCE CHECKLIST

### 1. ADMINISTRATIVE INFORMATION

|   |                            |   |
|---|----------------------------|---|
| Project Title: Generation and Characterization of Magnetized Bunched Electron Beam from DC Photogun for MEIC Cooler |                            | Date:   |
| Charge No. (if applicable):   | Estimated Start Work Date: | Individual Submitting Checklist: Riad Suleiman                      |
| Project Engineer/Manager:   |                            | Bldg/MS/Phone No/Fax No.:   |
| Project Location (Plant, Site, Area, Bldg No.):   |                            | Environmental Compliance Rep: Safety Advocate:<br>Jennifer Williams |

**2. LOCATION OF PROPOSED ACTION:** Describe the location at which the action would take place. Attach maps where appropriate. If applicable, provide the total acreage of the areas that are to be disturbed during construction activities (construction activities include any clearing, grading, excavating, grubbing, and/or filling). Also, if known, provide plant coordinates and identify the center point of the acreage in question.

**3. WORK SCOPE DESCRIPTION:** Describe your proposed action's work scope in detail providing as much specific information as possible. Be sure to include all support facilities/activities that will be involved from the initiation to the conclusion of the proposed action (e.g., utility lines, access roads, and equipment decontamination). Include attachments where appropriate.

**Below is a general list of activities to occur associated with the proposed project:**

✓**4. ENVIRONMENTAL SUMMARY:** Indicate if this action may generate, use, or cause disturbance to any of the following (**please check all that apply**). Unchecked items indicate that there are "no issues." If unknown, please check the item and explain in Item 5 below.

|   |   |   |
|---|---|---|
| 1. Air emissions (fugitive, stack, rad, etc.) | 11. Radiological area   | 21. Clearing or excavation (>5 acres)                 |
| 2. Asbestos                                   | 12. Solid Waste Management Unit/ CERCLA Area of Contamination | 22. Threatened or endangered species                  |
| 3. Ozone-depleting substance (CFCs, HCFCs)    | 13. Solid waste   | 23. Floodplain/wetland/streams                        |
| 4. Liquid effluents                           | 14. Mixed waste   | 24. Prime agricultural lands                          |
| 5. Drinking water system                      | 15. Radioactive waste/soil                                    | 25. Archeological/cultural resources                  |
| 6. Surface/stormwater                         | 16. Hazardous waste (RCRA, PCB, Asbestos)                     | 26. Transportation issues                             |
| 7. Water use/diversion                        | 17. Chemical/petroleum storage/use                            | 27. Pesticide/herbicide use                           |
| 8. Groundwater                                | 18. Environmental Elevated Noise Level                        | 28. Off-site releases (Environmental Justice Concern) |
| 9. Sewage System                              | 19. Clearing or excavation (<1 acre)                          | 29. Other   |
| 10. Tanks (under- or above-ground)            | 20. Clearing or excavation (1-5 acres)                        |   |

**5. EXPLAIN THOSE AREAS IDENTIFIED IN ITEM 4 THAT WERE CHECKED AND ANY**

**HAZARD CONTROLS TO BE EXECUTED** (e.g., spill prevention, erosion controls, air emission controls including dust suppression, etc.). Give details of chemical storage/use noting both the average use on-hand and the potential maximum use (include reportable quantity [RQ] amounts, waste storage areas, etc.). Include attachments where appropriate.

**6. POLLUTION PREVENTION/WASTE MINIMIZATION/AS LOW AS REASONABLY ACHIEVABLE (ALARA):** Describe pollution prevention/waste minimization principles to be used to reduce or eliminate liquid, solid, or gaseous waste/materials (e.g., substituting less hazardous materials, reusing or recycling materials, etc.). Have air, water, and waste disposal/stream discharges of radionuclides been minimized in accordance w/ ALARA principles (describe any actions taken below)?

**7. DESCRIPTION OF WASTES AND DISPOSAL METHODS:** Describe the type of waste (Radioactive, RCRA, Mixed, etc.); the waste form (solid, liquid, gas, etc.); approximate amount of waste expected to be generated; waste disposal method (landfill, storm sewer, other); and, if known, the disposal container (boxes, drums, etc.).

| Waste Type          | Check | Waste Form<br>(Solid, Liquid, Gas, Sludge)<br>(list all that apply) | Amount Expected to<br>be Generated<br>(specify units of<br>measure) | <sup>1</sup> Waste Disposal Method<br>(landfills [specify], sanitary<br>sewer, etc.) and Disposal<br>Container (boxes, drums, etc.) |
|---------------------|-------|---|---|---|
| Radioactive         |       |   |   |   |
| RCRA                |       |   |   |   |
| TSCA                |       |   |   |   |
| Mixed               |       |   |   |   |
| Sanitary/Industrial |       |   |   |   |
| Biohazard           |       |   |   |   |
| PCB                 |       |   |   |   |
| Oil/Oily            |       |   |   |   |
| Asbestos            |       |   |   |   |
| Mercury             |       |   |   |   |
| Beryllium           |       |   |   |   |
| Organics/Solvents   |       |   |   |   |
| Heavy Metals        |       |   |   |   |
| Construction Debris |       |   |   |   |
| Soil Debris         |       |   |   |   |
| Other               |       |   |   |   |

<sup>1</sup> Completion of this column may require input from Waste Operations or Waste Disposition Projects personnel.

**8. PROJECT SIGNATURE:** This section is to be completed by the Project Evaluator (individual completing this checklist).

**I have reviewed this action and to the best of my knowledge have answered all questions completely to describe the proposed action.**

**Project Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

*Please note:* Any changes or unanticipated events to the project must be documented by updating this form.

**This section to be completed by the Environmental Compliance Representative**

**9. ENVIRONMENTAL COMPLIANCE (EC) REPRESENTATIVE:**

I have reviewed the proposed project and based on the actions described in this checklist, the following hazard controls should be implemented.

| Check | Environmental Compliance Hazard Control Issue   | Hazard Control Measure(s) to be Implemented |
|-------|---|---|
|       | <b>Air Permit</b><br>- Exempt Air Emission Source<br>- Fugitive Dust Suppression  |   |
|       | <b>RCRA Permit</b><br>- Satellite Accumulation Area<br>- 90-day Accumulation Area<br>- Closure Plan   |   |
|       | <b>NPDES Permit</b><br>- Stormwater Notice of Intent  |   |
|       | <b>Section 404 Type Permits</b><br>-Aquatic Resources Alteration Permit<br>-TVA 26(a) Permit<br>-Corps of Engineer Permit<br>-Watts Bar Interagency Group<br>-Other |   |
|       | <b>Excavation/Penetration Permit</b>  |   |
|       | <b>Asbestos Notifications</b><br>-Building Demolition Notice of Intent  |   |
|       | <b>NESHAPs (RAD)</b>  |   |
|       | <b>Stormwater Controls</b>  |   |
| ✓     | <b>Spill Prevention</b>   |   |
|       | <b>Floodplain/Wetland</b>   |   |
| ✓     | <b>Level of NEPA Documentation Required (specify NEPA reference used)</b>   |   |
|       | <b>Historical/Cultural Resource</b>   |   |
|       | <b>Environmental Justice</b>  |   |
|       | <b>Hazardous Materials (HMIS Inventories)</b>   |   |
| ✓     | <b>Waste Management</b><br>- Approved Treatment, Storage, Disposal and Recycle Facility (TSDRF)   |   |
|       | <b>Safe Dam (FERC)</b>  |   |
|       | <b>HSWA, SWMUs</b>  |   |
|       | <b>Other</b>  |   |

EC Rep Signature: \_\_\_\_\_

Date: