

**PROGRAM STATUS
ACCELERATOR SAFETY**

March 20, 2008

DOE FIELD ELEMENTS DOE Order 420.2B	STATUS
<p>Approves the start of commissioning for an accelerator facility (or module) that does not have potential for more than minor onsite or more than negligible offsite impacts to workers, the public, or the environment after evaluating the ASE, ARR, and SAD and determining—</p> <ul style="list-style-type: none"> (a) that a specific ASE will appropriately bound commissioning, (b) that an appropriate ARR was conducted, and (c) that the risks as analyzed in the SAD are acceptable when commissioning is conducted within the specified ASE. 	<ul style="list-style-type: none"> • Commissioning of accelerator facility is not addressed in the Standard Operating Plan and Procedure (SOPP).
<p>Approves start of routine operation for an accelerator facility (or module) that does not have potential for more than minor onsite or more than negligible offsite impacts to workers, the public, or the environment after evaluating the ASE, ARR, and SAD and determining—</p> <ul style="list-style-type: none"> (a) that the ASE will appropriately bound routine operation, (b) that an appropriate ARR was conducted, and (c) that the risks as analyzed in the SAD are acceptable when routine operations are conducted within the specified ASE. 	<ul style="list-style-type: none"> • Addressed in TJSO SOPP-4.5, Rev 2, <i>Operational Awareness Program Plan</i>, March 12, 2008. • SOPP uses the terminology “normal” rather than “routine” as addressed in Section 5.4.5.
<p>After completing the process defined in paragraphs 5b(1)(b) and 5b(1)(c), recommends to the DOE cognizant Secretarial Officer/NNSA Deputy Administrator approval for start of commissioning activities for an accelerator facility (or module) that has the potential for more than minor onsite or more than negligible offsite impacts to workers, the public, or the environment.</p>	<ul style="list-style-type: none"> • Addressed in TJSO SOPP-3.1, Rev 4, <i>Shutdown and Restart Authority</i>, February 11, 2008.

<p>After completing the process defined in paragraphs 5b(2)(b) and 5b(2)(c), recommends to the DOE cognizant Secretarial Officer/NNSA Deputy Administrator approval for start of initial routine operation activities for an accelerator facility (or module) that has the potential for more than minor onsite or more than negligible offsite impacts to workers, the public, or the environment.</p>	<ul style="list-style-type: none"> • Addressed in TJSO SOPP-4.5, Rev 2, <i>Operational Awareness Program Plan</i>, March 12, 2008.
<p>Approves restart of an activity at an accelerator facility after shutdown that was ordered by a DOE/NNSA field manager because of an unreviewed safety issue, violation of an ASE, or other safety concern.</p>	<ul style="list-style-type: none"> • Addressed in TJSO SOPP-3.1, Rev 4, <i>Shutdown and Restart Authority</i>, February 11, 2008.
<p>Approves exemptions from requirements of this Order for an accelerator facility or module that does not have the potential for more than minor onsite or more than negligible offsite impacts to workers, the public, or the environment.</p>	<ul style="list-style-type: none"> • TJSO accelerator facilities do not have the potential for more than minor onsite or more than negligible offsite impacts to workers, the public, or the environment.
<p>Ensures that the Contractor Requirements Document (CRD) or alternative standard, consistent with paragraph 3b(2), is incorporated into the contract of each affected site/facility management contractor through the cognizant contracting officer.</p>	<ul style="list-style-type: none"> • The CRD has been incorporated into the current JSA Contract.

ADDITIONAL RESOURCES

- DOE Guide 420.2-1: *Accelerator Facility Safety Implementation Guide*

KEY DOCUMENTS

- Final Safety Assessment Document - Continuous Electron Beam Accelerator Facility (CEBAF), Revision 5, dated December 2002
- Final Safety Assessment Document – Free Electron Laser (FEL), Revision 5, dated December 2002
- DOE Approved - Accelerator Safety Envelope (ASE), Rev 1, dated April 26, 2007 – Approved on June 5, 2007
- SOPP-4.5, Rev 2, *Operational Awareness Program Plan*, March 12, 2008

TJSO ASSESSMENTS

- *Thomas Jefferson Site Office Integrated Safety Management System Self-Assessment*, April 11, 2007
- TJSO personnel training on Accelerator Safety Order and requirements conducted on January 29, 2008
- *TJSO Self Assessment*, February 2008

AREAS OF CONCERN

- Status of Site Office comments and incorporation into the SADs and ASE with a requested date of June 30, 2008.
- Status of the USI process and associated training.
- Schedule for completion of Updated SADs and ASEs.

CONTRACTOR ASSESSMENTS/OVERSIGHT

- None conducted; however, assessments will be incorporated into the Integrated Assessment Schedule.

PATH FORWARD

- Discuss areas of concern with the contractor at the next scheduled TJSO/JSA senior manager safety meeting.
- Develop internal TJSO corrective action to have staff track each contractor action and report status in weekly staff meeting/weeklies.
- DOE is currently reviewing the latest FSAD/ASE update. Comments are expected to be finalized the week of 3/24/08. Further revision of the safety documents is expected as a result of this review.

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