

Management System: [Nuclear and Facility Safety](#)

Subject Area: [Accelerator Safety](#)

Procedure: [Accelerator Safety Envelope Development and Maintenance](#)

Major Revision Date: **Mar 19, 2012**

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[SBMS Home](#) | [Subject Areas](#) | [Highlight Changes](#) | [Revision Record](#) | [Definitions](#) | [Lessons Learned](#)

1.0 Applicability

This procedure applies to all line managers and staff at Oak Ridge National Laboratory (ORNL) that operate [accelerator facilities](#) as delineated in the [introduction](#) to this subject area.

The accelerator at the Oak Ridge Electron Linear Accelerator (ORELA) facility is in a non-operating status. Therefore, the existing ORELA facility [Accelerator Safety Envelope](#) (ASE) is not required to satisfy the requirements of Steps 1, 2, and 3. **However, [accelerator operations](#) at ORELA are still governed by Step 4 under the existing ASE.**

2.0 Required Procedure

IMPORTANT: The numbered steps in SBMS procedures are requirements. Notes within a step may contain non-mandatory guidance, recommendations, or additional information for the user.

Step 1	Line management ensures an ASE is developed for all accelerator facilities and the ASE is updated as required to account for engineering or administrative modifications affecting the ASE content. The ASE must define the physical and administrative bounding conditions and controls for safe operations based on the safety analysis documented in the Safety Assessment Document (SAD).
Step 2	An appropriate review committee reviews the ASE and works with line management, as needed, to resolve comments.
Step 3	The appropriate Associate Laboratory Director (ALD) approves the ASE and submits the approved ASE to DOE for approval.
Step 4	Line management ensures operations are performed within the bounding conditions of the ASE. <ul style="list-style-type: none"> • An activity expected to exceed the bounding conditions of the ASE requires DOE approval. • Any activity violating the ASE must be terminated immediately and be put in a safe and stable configuration, and the violation evaluated for reporting as an occurrence. • Any activity that was shut down by DOE must not recommence until DOE approves the activity.

3.0 Suggested Guidelines

4.0 References

[DOE Order 420.2C, Safety of Accelerator Facilities Event Reporting and Follow-Up](#) subject area

5.0 External/Internal Requirements

[DOE O 420.2C](#)

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This web page was last modified on: 10/14/2014 3:49 PM

Web page name: /sbms/SBMSearch/subjarea/Accel/pro2.cfm Document ID: PROC-1588

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