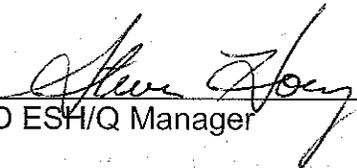


NLS Un-reviewed Safety Issue No. 4

### NLS Safety Assessment Document Revision Summary

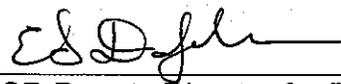
Signature of this cover sheet indicates agreement with the attached Un-reviewed Safety Issue (USI) analysis.

  
PSD ESH/Q Manager

5/25/11  
Date

  
PSD ESH Committee Chairperson

5/25/11  
Date

  
PSD Deputy Director for Programs

26 May 2011  
Date

May 23, 2011

Prepared by Andrew Ackerman

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NATIONAL SYNCHROTRON LIGHT SOURCE  
UN-REVIEWED SAFETY ISSUE (USI) ANALYSIS  
SAFETY ASSESSMENT DOCUMENT (SAD) REVIEW

## Introduction

This document is prepared as an addendum to the National Synchrotron Light Source (NSLS) Safety Assessment Document (SAD); revision 3, dated April 22, 2011. It is intended to summarize the changes made to revision 2 of the SAD. That revision is analyzed here as an Un-reviewed Safety Issue (USI) as defined in the DOE Order for Accelerator Safety; DOE O 420.2B.

## Discussion

The NSLS Safety Assessment Document is on a five year review cycle and is due for review by the end of August 2011. That review is complete and resulted in no substantive change to the risk analysis and no introduction of new hazards.

Typically, review of the SAD includes presentation of the changes to the BNL Environment, Safety, and Health committee before final approval of the document by the BNL Deputy Director of Operations. During a meeting of that committee on May 5, 2011, it was determined that the committee need not review the revised NSLS SAD provided that the Photon Science Directorate (PSD) complete a USI to summarize the revision changes and that those changes involve no new risks or hazards. That summary follows.

Revision 3 of the NSLS SAD was reviewed and accepted by the PSD ESH committee on April 4, 2011 provided that the administrative sections of the document are updated to reflect recent PSD organization changes. That update was completed. Changes made to bring the document to revision 3 are as follows:

- Updated personnel titles to reflect Photon Sciences organizational changes
- Updated or removed legacy committee, procedure, and requirements references
- Removed broken http hyperlinks
- Updated beam line insertion device configuration
- Clarified text related to credited controls
- Updated several figures / illustrations
- No new risk analysis or hazard introduction since last revision.

## Conclusion

Revision 3 of the NSLS SAD included no new risk analysis or hazard evaluation. BNL ESH committee review of the document is unnecessary.