Attachment D

NSLS-II Beamline (FOE) Area Radiation Monitor Checklist

Note: Signatures below indicate that the test has been completed.

<table>
<thead>
<tr>
<th>Monitor #</th>
<th>ID #</th>
<th>Beamline:</th>
<th>Test Date:</th>
<th>Test Reason:</th>
<th>Test Result</th>
<th>Tester</th>
<th>RCD:</th>
</tr>
</thead>
</table>
| ERN-D109 | 7NO7375 | FOE       | 10/17/16   | replacement/repair | passed      | Tom McDonald | Shawn Buck 

RCD: __________

Tester Signature: __________

RCD Signature: __________

Fail Alarm: Place checkmark (✓) in checkbox (☐) for each correct response.

- **Local Expected Observation**: Operator turns on Gun
  - Gun HVPS is ON
  - RCD Disables Monitor
  - Silence CR Alarm
  - Gun HVPS is OFF
  - Return monitor to normal
  - Reset fault in Control Room
  - RCD ensures ARM is locked

- **HMI/CR Expected Observation**: Gun Contactors ON A Chain
  - Alarm sounds in Control Room
  - Alarm silences
  - Gun Contactors OFF A Chain
  - Fail alarm remains ON HMI
  - Monitor normal HMI

- **Linac HMI/CRHMI**: ARM is locked

Low Alarm: Place checkmark (✓) in checkbox (☐) for each correct response.

- **Local Expected Observation**: Opens FE shutter (w/keypad)
  - FE Shutters open
  - Apply source until low alarm
  - FE Shutters Closed
  - Return monitor to normal
  - Apply source until low alarm
  - Return monitor to normal

- **HMI/CR Expected Observation**: Yellow light on Monitor
  - Radiation level increases on EPICS
  - Alarm sounds in Control Room
  - Low level alarm ON, HMI
  - Monitor normal, HMI
  - FE Critical Device Permit A chain ON
  - FE Critical Device Permit A chain OFF

- **Linac HMI/CR HMI/EPICS**: Monitor normal, HMI

High Alarm: Place checkmark (✓) in checkbox (☐) for each correct response.

- **Local Expected Observation**: Operator turns on Gun
  - Gun HVPS is ON
  - Apply source until high alarm
  - Monitor alarm sounds
  - Silence Alarm
  - Gun HVPS is OFF
  - Return monitor to normal
  - Reset fault in Control Room

- **HMI/CR Expected Observation**: Gun Contactors ON A Chain
  - Alarm sounds in Control Room
  - High level alarm ON, HMI
  - Alarm silences
  - Gun Contactors OFF A Chain
  - High level alarm remains ON, HMI
  - Monitor normal, HMI
  - Monitor normal, HMI

- **Linac HMI/CR HMI/EPICS**: Monitor normal, HMI

Description of Test Failures (if any):
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National Synchrotron Light Source II, Brookhaven National Laboratory

<table>
<thead>
<tr>
<th>Doc No.</th>
<th>PS-C-ASD-PRC-008</th>
<th>Author: T. McDonald</th>
<th>Effective Date: 17 April 2015</th>
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</thead>
<tbody>
<tr>
<td>Title:</td>
<td>NSLS-II Area Radiation Monitor PPS Test</td>
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- END-

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