Except for the Mekometer Port (checkpoint 1704), all configurations must match the associated photograph located near the checkpoint.

**Inside Storage Ring Pendant 1**

**Check 1001 through 1018 in Cell 23:**

1001. ☑ Utility Penetration shielding at 22 ID in place and labeled
1002. ☑ Vacuum flange and blank off at Cell 23 between Girder 2 and 3 in place and labeled
1003. ☑ Dipole chamber mounting brackets at Cell 23 Girder 3 in place and labeled
1004. ☑ Vacuum Absorber at Cell 23 between Girder 3 and 4 in place and labeled
1005. ☑ Dipole Shadow shield at Cell 23 Girder 4 in place, banded and labeled
1006. ☑ Ratchet Wall Plug (Front end) shielding at 22BM in place and labeled
   (This includes copper 3PW Ratchet Wall Cover Plate installed in the center mounting position)
1007. ☑ Utility Penetration shielding at 22 BM in place and labeled
1008. ☑ Dipole Shadow shield at Cell 23 Girder 6 in place, banded and labeled
1009. ☑ Front End Fixed Aperture Mask at 231D in place and labeled
1010. ☑ Front End Burn Through Device #1 at 231D in place and labeled
1011. ☑ Front End Collimator #1 shielding at 231D in place and labeled
1012. ☑ Reserved for future use.
1013. ☑ Front End Collimator #2 shielding at 231D in place and labeled
1014. ☑ Safety Shutter #1 shielding at 231D in place and labeled
1015. ☑ Safety Shutter #2 shielding at 231D in place and labeled
1016. ☑ Ratchet Wall Collimator shielding at 231D in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)
1017. ☑ Dipole Girder Assembly Shield at 231D Front End in place and labeled.
1018. ☑ Wall Penetration and Beam Pipe Shield at 231D Front End in place and labeled.

**Check 1101 through 1109 in Cell 24:**

1101. ☑ Utility Penetration shielding at 23 ID in place and labeled
1102. ☑ RF waveguide and utility penetration shielding in place and labeled
1103. ☑ RF waveguide penetration shielding in place and labeled
1104. ☑ RF cable tray penetration shielding in place and labeled
1105. ☑ Dipole Shadow shield at Cell 24 Girder 4 in place, banded and labeled
1106. ☑ Ratchet Wall Plug (Front end) shielding at 23BM in place and labeled
1107. ☑ Utility Penetration at 23 BM shielding in place and labeled
1108. ☑ Dipole Shadow shield at Cell 24 Girder 6 in place, banded and labeled
<table>
<thead>
<tr>
<th>Subject: NSLS-II Storage Ring Pendant 1 Radiation Safety Component Checklist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number: NSLSII-SRP1-KSR-001</td>
</tr>
<tr>
<td>Prepared by: L. Doom</td>
</tr>
</tbody>
</table>

**Check 1201 through 1206 in Cell 25:**

1201. □ Utility Penetration shielding at 24 ID in place and labeled
1202. □ Dipole Shadow shield at Cell 25 Girder 4 in place, banded and labeled
1203. □ Ratchet Wall Plug (Front end) shielding at 24BM in place and labeled
1204. □ Utility Penetration shielding at 24 BM in place and labeled
1205. □ Dipole Shadow shield at Cell 25 Girder 6 in place, banded and labeled
1206. □ Ratchet Wall Plug (Front end) shielding at 25ID in place and labeled

**Check 1301 through 1306 in Cell 26:**

1301. □ Utility Penetration shielding at 25 ID in place and labeled
1302. □ Dipole Shadow shield at Cell 26 Girder 4 in place, banded and labeled
1303. □ Ratchet Wall Plug (Front end) shielding at 25BM in place and labeled
1304. □ Utility Penetration shielding at 25 BM in place and labeled
1305. □ Dipole Shadow shield at Cell 26 Girder 6 in place, banded and labeled
1306. □ Ratchet Wall Plug (Front end) shielding at 26ID in place and labeled

**Check 1401 through 1406 in Cell 27:**

1401. □ Utility Penetration shielding at 26 ID in place and labeled
1402. □ Dipole Shadow shield at Cell 27 Girder 4 in place, banded and labeled
1403. □ Ratchet Wall Plug (Front end) shielding at 26BM in place and labeled
1404. □ Utility Penetration shielding at 26 BM in place and labeled
1405. □ Dipole Shadow shield at Cell 27 Girder 6 in place, banded and labeled
1406. □ Ratchet Wall Plug (Front end) shielding at 27ID in place and labeled

**Check 1501 through 1516 in Cell 28:**

1501. □ Utility Penetration shielding at 27 ID in place and labeled
1502. □ Vacuum flange and blank off at Cell 28 between Girder 2 and 3 in place and labeled
1503. □ Dipole chamber mounting brackets at Cell 28 Girder 3 in place and labeled
1504. □ Vacuum Absorber at Cell 28 between Girder 3 and 4 in place and labeled
1505. □ Dipole Shadow shield at Cell 28 Girder 4 in place, banded and labeled
1506. □ Ratchet Wall Plug (Front end) shielding at 27BM in place and labeled
1507. □ Utility Penetration shielding at 27 BM in place and labeled
1508. □ Dipole Shadow shield at Cell 28 Girder 6 in place, banded and labeled
1509. □ Front End Fixed Aperture Mask at 28ID in place and labeled
1510. □ Front End Burn Through Device #1 at 28ID in place and labeled
1511. □ Front End Collimator #1 shielding at 28ID in place and labeled
1512. [Reserved for future use]
1513. [Front End Collimator #2 shielding at 28ID in place and labeled]
1514. [Safety Shutter #1 shielding at 28ID in place and labeled]
1515. [Safety Shutter #2 shielding at 28ID in place and labeled]
1516. [Ratchet Wall Collimator shielding at 28ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)]

**Outside Storage Ring Tunnel Pentant 1**

**Check 1601 through 1630 along the storage ring outer wall**

1601. [Utility Penetration shielding at 22 ID in place and labeled]
1602. [Fixed concrete blocks (2) at 22BM in place and labeled]
1603. [Ratchet Wall Plug (Front end) shielding at 22BM in place, banded and labeled (inside cabin)]
1604. [Utility Penetration shielding at 22 BM in place and labeled (inside cabin)]
1604A. [Mirror Assembly Shield at 22 BM in place and labeled (inside cabin)]
1605. [Ratchet Wall Collimator shielding at 23ID in place, banded and labeled (inside hutch) this also insures Burn through Device #2 in ratchet wall is present.]
1606. [Utility Penetration shielding at 23 ID in place and labeled]
1607. [Fixed concrete blocks (2) at 23BM in place and labeled]
1608. [Ratchet Wall Plug (Front end) shielding at 23BM in place, banded and labeled]
1609. [Utility Penetration shielding at 23 BM in place and labeled]
1610. [Ratchet Wall Plug (Front end) shielding at 24ID in place, banded and labeled (inside hutch)]
1611. [Utility Penetration shielding at 24 ID in place and labeled]
1612. [Fixed concrete blocks (2) at 24BM in place and labeled]
1613. [Ratchet Wall Plug (Front end) shielding at 24BM in place, banded and labeled]
1614. [Utility Penetration shielding at 24 BM in place and labeled]
1615. [Ratchet Wall Plug (Front end) shielding at 25ID in place, banded and labeled]
1616. [Utility Penetration shielding at 25 ID in place and labeled]
1617. [Fixed concrete blocks (4) at 25BM in place and labeled]
1618. [Ratchet Wall Plug (Front end) shielding at 25BM in place, banded and labeled]
1619. [Utility Penetration shielding at 25 BM in place and labeled]
1620. [Ratchet Wall Plug (Front end) shielding at 26ID in place, banded and labeled]
1621. [Utility Penetration shielding at 26 ID in place and labeled]
1622. [Fixed concrete blocks (2) at 26BM in place and labeled]
1623. [Ratchet Wall Plug (Front end) shielding at 26BM in place, banded and labeled]
1624. ☑ Utility Penetration shielding at 26 BM in place and labeled
1625. ☑ Ratchet Wall Plug (Front end) shielding at 27ID in place, banded and labeled
1626. ☑ Utility Penetration shielding at 27 ID in place and labeled
1627. ☐ Fixed concrete blocks (2) at 27BM in place and labeled
1628. ☑ Ratchet Wall Plug (Front end) shielding at 27BM in place, banded and labeled
1629. ☑ Utility Penetration shielding at 27 BM in place and labeled
1630. ☑ Ratchet Wall Collimator shielding at 28ID in place, banded and labeled (inside hutch) this also insures Burn through Device #2 in ratchet wall is present

**Check 1701 through 1704 on the Storage Ring Mezzanine**

1701. ☑ RF penetration A pipe dog shed in place and labeled
1702. ☑ RF penetration BC pipe dog shed in place and labeled
1703. ☑ RF penetration DEF pipe dog shed in place and labeled
1704. ☑ Mekemeter port cover plate labeled and shielding padlocked below cover plate (at cell 27)

**Check 1801 in Service Building 1:**

1801. ☑ Fixed concrete blocks (8) in place and labeled

**Check 1901 through 1903 in the RF Building:**

1901. ☑ RF waveguide and utility penetration shielding in place and labeled
1902. ☑ RF waveguide penetration shielding in place and labeled
1903. ☑ RF cable tray penetration shielding in place and labeled

Prepared by: Lewis Doom
Approved by: Sushil Sharma

Signed by: Doom, Lewis
Signed by: Sharma, Sushil

Inspected by: Lewis Doom
Signature: Lewis Doom
Date: 1/2/2018

******Removal of any shielding or opening of any locks listed on this checklist requires posting an approved NSLS-II Safety System Work Permit ******