Except for the Mekometer Port (checkpoint 2701), all configurations must match the associated photograph located near the checkpoint.

**Inside Storage Ring Pendant 2**

**Check 2001 through 2012 in Cell 29 and in BST Part II:**

2001. ☐ Utility Penetration shielding at 28 ID in place and labeled
2002. ☐ Dipole Shadow shield at Cell 29 Girder 4 in place, banded and labeled
2003. ☐ Dipole Shadow shield at BST-B3 in place, banded and labeled
2004. ☐ Dipole Shadow shield at BST-B4 in place, banded and labeled
2005. ☐ Alcove Joint Shielding padlocks in place and locked (2)
2006. ☐ Energy Slit shield in place, banded and labeled
2007. ☐ Downstream Crotch Shield in place, banded and labeled
2008. ☐ Ratchet Wall Plug (Front end) shielding at 28 BM in place and labeled
2009. ☐ Utility Penetration shielding at 28 BM in place and labeled
2010. ☐ Dipole Shadow shield at Cell 29 Girder 6 in place, banded and labeled
2011. ☐ Lead Door Supplemental shield at 29 ID in place and labeled
2012. ☐ Ratchet Wall Plug (Front end) shielding at 29 ID in place and labeled

**Check 2101 through 2113 at Injection Septum (Cell 30):**

2101. ☐ Upstream Septum overhead shielding in place, labeled, and locked (2 locking points)
2102. ☐ Midstream Septum overhead shielding in place, labeled, and locked (2 locking points)
2103. ☐ Downstream Septum overhead shielding in place, labeled, and locked (2 locking points)
2104. ☐ Not in Use
2105. ☐ Upstream Inner Curtain lead shield in place, labeled and locked
2106. ☐ Downstream Inner Curtain lead shield #1 in place, labeled and locked
2107. ☐ Downstream Inner Curtain lead shield #2 in place, labeled and locked
2108. ☐ Upstream Outer Curtain lead shield in place, labeled and locked
2109. ☐ Downstream Outer Curtain lead shield #1 in place, labeled and locked
2110. ☐ Downstream Outer Curtain lead shield #2 in place, labeled and locked
2111. ☐ Downstream Outer Curtain lead shield #3 in place, labeled and locked
2112. ☐ Downstream Outer Curtain lead shield #4 in place, labeled and locked
2113. ☐ Downstream Outer Curtain lead shield #5 in place, labeled and locked

**Check 2114 through 2124 in Cell 30:**

2114. ☐ Utility Penetration shielding at 29 ID in place and labeled
2115. ☐ Scraper shield at Cell 30 Girder 3 in place, banded and labeled
<table>
<thead>
<tr>
<th>Check 2201 through 2209 in Cell 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2201. ☐ Utility Penetration shielding at 30 ID in place and labeled</td>
</tr>
<tr>
<td>2202. ☐ Scraper shield at Cell 1 Girder 3 in place, banded and labeled</td>
</tr>
<tr>
<td>2203. ☐ Dipole Shadow shield at Cell 1 Girder 4 in place, banded and labeled</td>
</tr>
<tr>
<td>2204. ☐ Ratchet Wall Plug (Front end) shielding at 30BM in place and labeled</td>
</tr>
<tr>
<td>2205. ☐ Utility Penetration shielding at 30 BM in place and labeled</td>
</tr>
<tr>
<td>2206. ☐ Scraper shield at Cell 1 Girder 5 in place, banded and labeled</td>
</tr>
<tr>
<td>2207. ☐ Dipole Shadow shield at Cell 1 Girder 6 in place, banded and labeled</td>
</tr>
<tr>
<td>2208. ☐ Ratchet Wall Plug (Front end) shielding at 1 ID in place and labeled</td>
</tr>
<tr>
<td>2209. ☐ Lead Door Supplemental shield at 1 ID in place and labeled</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Check 2301 through 2316 in Cell 2:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2301. ☐ Utility Penetration shielding at 1 ID in place and labeled</td>
</tr>
<tr>
<td>2302. ☐ Vacuum flange and blank off at Cell 3 between Girder 2 and 3 in place and labeled</td>
</tr>
<tr>
<td>2303. ☐ Dipole chamber mounting brackets at Cell 3 Girder 3 in place and labeled</td>
</tr>
<tr>
<td>2304. ☐ Vacuum Absorber at Cell 3 between Girder 3 and 4 in place and labeled</td>
</tr>
<tr>
<td>2305. ☐ Dipole Shadow shield at Cell 2 Girder 4 in place, banded and labeled</td>
</tr>
<tr>
<td>2306. ☐ Ratchet Wall Plug (Front end) shielding at 1 BM in place and labeled</td>
</tr>
<tr>
<td>2307. ☐ Utility Penetration shielding at 1 BM in place and labeled</td>
</tr>
<tr>
<td>2308. ☐ Dipole Shadow shield at Cell 2 Girder 6 in place, banded and labeled</td>
</tr>
<tr>
<td>2309. ☐ Front End Fixed Aperture Mask at 2ID in place and labeled</td>
</tr>
<tr>
<td>2310. ☐ Front End Burn Through Device #1 at 2ID in place and labeled</td>
</tr>
<tr>
<td>2311. ☐ Front End Collimator #1 shielding at 2ID in place and labeled</td>
</tr>
<tr>
<td>2312. ☐ Reserved for future use.</td>
</tr>
<tr>
<td>2313. ☐ Front End Collimator #2 shielding at 2ID in place and labeled</td>
</tr>
</tbody>
</table>
2314. ☐ Safety Shutter #1 shielding at 2ID in place and labeled
2315. ☐ Safety Shutter #2 shielding at 2ID in place and labeled
2316. ☐ Ratchet Wall Collimator shielding at 2ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)

**Check 2401 through 2416 in Cell 3:**
2401. ☐ Utility Penetration shielding at 2 ID in place and labeled
2402. ☐ Vacuum flange and blank off at Cell 3 between Girder 2 and 3 in place and labeled
2403. ☐ Dipole chamber mounting brackets at Cell 3 Girder 3 in place and labeled
2404. ☐ Vacuum Absorber at Cell 3 between Girder 3 and 4 in place and labeled
2405. ☐ Dipole Shadow shield at Cell 3 Girder 4 in place, banded and labeled
2406. ☐ Ratchet Wall Plug (Front end) shielding at 2BM in place and labeled
2407. ☐ Utility Penetration shielding at 2BM in place and labeled
2408. ☐ Dipole Shadow shield at Cell 3 Girder 6 in place, banded and labeled
2409. ☐ Front End Fixed Aperture Mask at 3ID in place and labeled
2410. ☐ Front End Burn through Device #1 at 3ID in place and labeled
2411. ☐ Front End Collimator #1 shielding at 3ID in place and labeled
2412. ☐ Reserved for future use
2413. ☐ Front End Collimator #2 shielding at 3ID in place and labeled
2414. ☐ Safety Shutter #1 shielding at 3ID in place and labeled
2415. ☐ Safety Shutter #2 shielding at 3ID in place and labeled
2416. ☐ Ratchet Wall Collimator shielding at 3ID in place and labeled (This verifies Burn through Device #2 in ratchet wall is present)

**Check 2501 through 2521 in Cell 4:**
2501. ☐ Utility Penetration shielding at 3 ID in place and labeled
2502. ☐ Vacuum flange and blank off at Cell 4 between Girder 2 and 3 in place and labeled
2503. ☐ Dipole chamber mounting brackets at Cell 4 Girder 3 in place and labeled
2504. ☐ Vacuum Absorber at Cell 4 between Girder 3 and 4 in place and labeled
2505. ☐ Dipole Shadow shield at Cell 4 Girder 4 in place, banded and labeled
2506. ☐ Ratchet Wall Plug (Front end) shielding at 3 BM in place and labeled
2507. ☐ Utility Penetration shielding at 3 BM in place and labeled
2508. ☐ Dipole Shadow shield at Cell 4 Girder 6 in place, banded and labeled
2509. ☐ Front End Fixed Aperture Mask at 4ID in place and labeled
2510. ☐ Front End Burn through Device #1 at 4ID in place and labeled
2511. ☐ Front End Collimator #1 shielding at 4ID in place and labeled
2512. ☐ Front End Burn through Device #2 at 4ID in place and labeled
2513. □ Front End Collimator #2 shielding at 4ID in place and labeled
2514. □ Safety Shutter #1 shielding at 4ID in place and labeled
2515. □ Safety Shutter #2 shielding at 4ID in place and labeled
2516. □ Ratchet Wall Collimator shielding at 4ID in place and labeled (This verifies Burn through Device #3 in ratchet wall is present)
2517. □ Vacuum flange and blank off at 4 BM Cell 4 Girder 4 in place and labeled
2518. □ Reserved for Future Use
2519. □ Reserved for Future Use
2520. □ Fixed Mask at 4BM in place and labeled
2521. □ Front End Collimator #1 shielding at 4BM in place and labeled

Outside Storage Ring Tunnel Pentant 2
Check 2601 through 2631 along the storage ring outer wall

2601. □ Utility Penetration shielding at 28 ID in place and labeled (inside hutch)
2602. N/A Fixed concrete blocks (2) at 28 BM in place (blocks cannot be accessed)
2603. □ Ratchet Wall Plug (Front end) shielding at 28 BM in place, banded and labeled
2604. □ Utility Penetration shielding at 28 BM in place and labeled
2605. □ Ratchet Corner Shield at 29 ID place and labeled
2606. □ Ratchet Wall Plug (Front end) shielding at 29 ID in place, banded and labeled (inside hutch)
2607. □ Utility Penetration shielding at 29 ID in place and labeled
2608. □ Fixed concrete blocks (2) at 29 BM in place and labeled
2609. □ Ratchet Wall Plug (Front end) shielding at 29 BM in place, banded and labeled
2610. □ Utility Penetration shielding at 29 BM in place and labeled
2611. □ Ratchet Wall Plug (Front end) shielding at 30 ID in place, banded and labeled (inside SLM hatch)
2612. □ Utility Penetration shielding at 30 ID in place and labeled (inside SLM hatch)
2613. N/A Fixed concrete blocks (2) at 30 BM in place (blocks cannot be accessed)
2614. □ Ratchet Wall Plug (Front end) shielding at 30 BM in place, banded and labeled
2615. □ Utility Penetration shielding at 30 BM in place and labeled
2616. □ Ratchet Wall Plug (Front end) shielding at 1 ID in place, banded and labeled
2617. □ Utility Penetration a shielding at 1 ID in place and labeled
2618. □ Fixed concrete blocks (4) at 1 BM in place and labeled
2619. □ Ratchet Wall Plug (Front end) shielding at 1 BM in place, banded and labeled
2620. □ Utility Penetration shielding at 1 BM in place and labeled
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<thead>
<tr>
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<tbody>
<tr>
<td>2621.</td>
<td>□ Ratchet Wall Collimator shielding at 2ID in place, banded and labeled (inside hutch) this also insures Burn through Device #2 in ratchet wall is present</td>
</tr>
<tr>
<td>2622.</td>
<td>□ Utility Penetration shielding at 2ID in place and labeled</td>
</tr>
<tr>
<td>2623.</td>
<td>□ Fixed concrete blocks (2) at 2 BM in place and labeled</td>
</tr>
<tr>
<td>2624.</td>
<td>□ Ratchet Wall Plug (Front end) shielding at 2 BM in place, banded and labeled</td>
</tr>
<tr>
<td>2625.</td>
<td>□ Utility Penetration shielding at 2 BM in place and labeled</td>
</tr>
<tr>
<td>2626.</td>
<td>□ Ratchet Wall Collimator shielding at 3ID in place, banded and labeled (inside hutch) this also insures Burn through Device #2 in ratchet wall is present</td>
</tr>
<tr>
<td>2627.</td>
<td>□ Utility Penetration shielding at 3 ID in place and labeled (inside hutch)</td>
</tr>
<tr>
<td>2628.</td>
<td>□ Fixed concrete blocks (2) at 3 BM in place and labeled (inside hutch)</td>
</tr>
<tr>
<td>2629.</td>
<td>□ Ratchet Wall Plug (Front end) shielding at 3 BM in place, banded and labeled</td>
</tr>
<tr>
<td>2630.</td>
<td>□ Utility Penetration shielding at 3 BM in place and labeled</td>
</tr>
<tr>
<td>2631.</td>
<td>□ Ratchet Wall Collimator shielding at 4ID in place, banded and labeled (inside hutch) this also insures Burn through Device #3 in ratchet wall is present</td>
</tr>
</tbody>
</table>

**Check 2701 on the Storage Ring Mezzanine at Cell 2**

2701. □ Mekometer port cover plate labeled and shielding padlocked (below cover plate)

**Check 2801 in Service Building 2:**

2801. □ Fixed concrete blocks (8) in place and labeled

**Inspected by**

Print Name________________ Signature: ___________________    Date: ____________

X Lewis Doom
Lewis Doom
Storage Ring Engineer
Signed by: Doom, Lewis

X Sushil Sharma
Sushil Sharma
Technical Authority
Signed by: Sharma, Sushil

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