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 2121 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
2116. [ ] Dipole Shadow shield at Cell 30 Girder 4 in place, banded and labeled
2117. [ ] Ratchet Wall Plug (Front end) shielding at 29 BM in place and labeled
2118. [ ] Utility Penetration shielding at 29 BM in place and labeled
2119. [ ] Scraper shield at Cell 30 Girder 5 in place, banded and labeled
2120. [ ] SLM Dipole Shadow shield at Cell 30 Girder 6 in place, banded and labeled
2121. [ ] SLM Ratchet Wall Shield (Front end) shielding at 30 ID in place and labeled
2122. [ ] SLM Second Mirror Assembly Shadow shield at Cell 30 in place, banded and labeled
2123. [ ] SLM First Mirror Assembly Shadow shield at Cell 30 in place, banded and labeled
2124. [ ] Lead Door Supplemental shield at 30 ID in place and labeled

Check 2201 through 2209 in Cell 1:
2201. [ ] Utility Penetration shielding at 30 ID in place and labeled
2202. [ ] Scraper shield at Cell 1 Girder 3 in place, banded and labeled
2203. [ ] Dipole Shadow shield at Cell 1 Girder 4 in place, banded and labeled
2204. [ ] Ratchet Wall Plug (Front end) shielding at 30 BM in place and labeled
2205. [ ] Utility Penetration shielding at 30 BM in place and labeled
2206. [ ] Scraper shield at Cell 1 Girder 5 in place, banded and labeled
2207. [ ] Dipole Shadow shield at Cell 1 Girder 6 in place, banded and labeled
2208. [ ] Ratchet Wall Plug (Front end) shielding at 1 ID in place and labeled
2209. [ ] Lead Door Supplemental shield at 1 ID in place and labeled

Check 2301 through 2316 in Cell 2:
2301. [ ] Utility Penetration shielding at 1 ID in place and labeled
2302. [ ] Reserved for future use.
2303. [ ] Reserved for future use.
2304. [ ] Reserved for future use.
2305. [ ] Dipole Shadow shield at Cell 2 Girder 4 in place, banded and labeled
2306. [ ] Ratchet Wall Plug (Front end) shielding at 1 BM in place and labeled
2307. [ ] Utility Penetration shielding at 1 BM in place and labeled
2308. [ ] Dipole Shadow shield at Cell 2 Girder 6 in place, banded and labeled
2309. [ ] Front End Fixed Aperture Mask at 2ID in place and labeled
2310. [ ] Front End Burn Through Device #1 at 2ID in place and labeled
2311. [ ] Front End Collimator #1 shielding at 2ID in place and labeled
2312. [ ] Reserved for future use.
2313. [ ] Front End Collimator #2 shielding at 2ID in place and labeled
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 2406 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 2516 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)

**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 hutch)
2612. ☑ Utility Penetration shielding at 30 ID in place and labeled (inside SLM hutch)
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 t 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
2621. ☑ Ratchet Wall Plug (Front end) shielding at 2 ID in place, banded and labeled
2622. ☑ Utility Penetration shielding at 2 ID in place and labeled
2623. ☑ Fixed concrete blocks (2) at 2 BM in place and labeled
2624. ☑ Ratchet Wall Plug (Front end) shielding at 2 BM in place, banded and labeled
2625. ☑ Utility Penetration shielding at 2 BM in place and labeled
2626. [ ] Ratchet Wall Collimator shielding at 31D in place, banded and labeled (inside hutch) this also insures Burn through Device #2 in ratchet wall is present
2627. [ ] Utility Penetration shielding at 3 1D in place and labeled (inside hutch)
2628. [ ] Fixed concrete blocks (2) at 3 BM in place and labeled (inside hutch)
2629. [ ] Ratchet Wall Plug (Front end) shielding at 3 BM in place, banded and labeled
2630. [ ] Utility Penetration shielding at 3 BM in place and labeled
2631. [ ] Ratchet Wall Collimator shielding at 41D in place, banded and labeled (inside hutch) this also insures Burn through Device #3 in ratchet wall is present

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

Prepared by: Lewis Doom
Approved by: Robert Chmiel

Lewis Doom
Storage Ring Engineer
Signed by: Lewis, Doom

Robert Chmiel
Safety Officer
Signed by: Chmiel, Robert

Inspected by
Print Name Lewis Doom Signature: Lewis Doom Date: 5/26/16

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