Except for the Mekometer Port (checkpoint 5701), all configurations must match the associated photograph located near the checkpoint.

**Inside Storage Ring Pentant 5**

**Check 5001 through 5022 in Cell 17:**

- 5001. ☐ Utility Penetration shielding at 16 ID in place and labeled
- 5002. ☐ Vacuum flange and blank off at Cell 17 Girder 2 in place and labeled
- 5003. ☐ Dipole chamber mounting brackets at Cell 17 Girder 3 in place and labeled
- 5004. ☐ Vacuum Absorber at Cell 17 Girder 3 in place and labeled
- 5005. ☐ Dipole Shadow shield at Cell 17 Girder 4 in place, banded and labeled
- 5006. ☐ Ratchet Wall Plug (Front end) shielding at 16 BM in place and labeled
- 5007. ☐ Utility Penetration shielding at 16 BM in place and labeled
- 5008. ☐ Dipole Shadow shield at Cell 17 Girder 6 in place, banded and labeled
- 5009. ☐ Front End Fixed Aperture Mask at 17ID in place and labeled
- 5010. ☐ Front End Burn Through Device #1 at 17ID in place and labeled
- 5011. ☐ Front End Collimator #1 shielding at 17ID in place and labeled
- 5012. ☐ Front End Burn Through Device #2 at 17ID in place and labeled
- 5013. ☐ Front End Collimator #2 shielding at 17ID in place and labeled
- 5014. ☐ Safety Shutter #1 shielding at 17ID in place and labeled
- 5015. ☐ Safety Shutter #2 shielding at 17ID in place and labeled
- 5016. ☐ Ratchet Wall Collimator shielding at 17ID in place and labeled (This verifies Burn Through Device #3 in ratchet wall is present)
- 5017. ☐ Vacuum flange and blank off at Cell 17 Girder 4 in place and labeled
- 5018. ☐ Dipole chamber mounting brackets at Cell 17 Girder 4 in place and labeled
- 5019. ☐ Exit Absorber at Cell 17 Girder 6 in place and labeled
- 5020. ☐ Chamber mounting brackets at Cell 17 Girder 6 in place and labeled
- 5021. ☐ Fixed mask 2 at 17BM in place and labeled
- 5022. ☐ Lead Collimator #1 at 17BM in place and labeled

**Check 5101 through 5111 in Cell 18:**

- 5101. ☐ Utility Penetration shielding at 17 ID in place and labeled
- 5102. ☐ Shadow shield at 17BM in place and labeled
- 5103. ☐ Fixed mask 5 at 17BM in place and labeled
- 5104. ☐ Lead Collimator #2 at 17BM in place and labeled
- 5105. ☐ Safety Shutter #1 shielding at 17BM in place and labeled
5106. □ Safety Shutter #2 shielding at 17BM in place and labeled
5107. □ Ratchet Wall Collimator shielding at 17BM in place and labeled
5108. □ Dipole Shadow shield at Cell 18 Girder 4 in place, banded and labeled
5109. □ Utility Penetration shielding at 17 BM in place and labeled
5110. □ Dipole Shadow shield at Cell 18 Girder 6 in place, banded and labeled
5111. □ Ratchet Wall Plug (Front end) shielding at 18 ID in place and labeled

**Check 5201 through 5206 in Cell 19:**

5201. □ Utility Penetration shielding at 18 ID in place and labeled
5202. □ Dipole Shadow shield at Cell 19 Girder 4 in place, banded and labeled
5203. □ Ratchet Wall Plug (Front end) shielding at 18 BM in place and labeled
5204. □ Utility Penetration shielding at 18 BM in place and labeled
5205. □ Dipole Shadow shield at Cell 19 Girder 6 in place, banded and labeled
5206. □ Ratchet Wall Plug (Front end) shielding at 19 ID in place and labeled

**Check 5301 through 5306 in Cell 20:**

5301. □ Utility Penetration shielding at 19 ID in place and labeled
5302. □ Dipole Shadow shield at Cell 20 Girder 4 in place, banded and labeled
5303. □ Ratchet Wall Plug (Front end) shielding at 19 BM in place and labeled
5304. □ Utility Penetration shielding at 19 BM in place and labeled
5305. □ Dipole Shadow shield at Cell 20 Girder 6 in place, banded and labeled
5306. □ Ratchet Wall Plug (Front end) shielding at 20 ID in place and labeled

**Check 5401 through 5416 in Cell 21:**

5401. □ Utility Penetration shielding at 20 ID in place and labeled
5402. □ Vacuum flange and blank off at Cell 21 Girder 2 in place and labeled
5403. □ Dipole chamber mounting brackets at Cell 21 Girder 3 in place and labeled
5404. □ Vacuum Absorber at Cell 21 Girder 3 in place and labeled
5405. □ Dipole Shadow shield at Cell 21 Girder 4 in place, banded and labeled
5406. □ Ratchet Wall Plug (Front end) shielding at 20 BM in place and labeled
5407. □ Utility Penetration shielding at 20 BM in place and labeled
5408. □ Dipole Shadow shield at Cell 21 Girder 6 in place, banded and labeled
5409. □ Front End Fixed Aperture Mask at 21ID in place and labeled
5410. □ Front End Burn Through Device #1 at 21ID in place and labeled
5411. □ Front End Collimator #1 shielding at 21ID in place and labeled
5412. □ Reserved for future use.
5413. □ Front End Collimator #2 shielding at 21ID in place and labeled
5414. □ Safety Shutter #1 shielding at 21ID in place and labeled
5415. □ Safety Shutter #2 shielding at 21ID in place and labeled
5416. □ Ratchet Wall Collimator shielding at 21ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)

**Check 5501 through 5509 in Cell 22:**

5501. □ Utility Penetration shielding at 21 ID in place and labeled
5502. □ RF utility penetration shielding in place and labeled
5503. □ RF waveguide penetration #2 shielding in place and labeled
5504. □ RF cable tray penetration shielding in place and labeled
5505. □ Dipole Shadow shield at Cell 22 Girder 4 in place, banded and labeled
5506. □ Ratchet Wall Plug (Front end) shielding at 21 BM in place and labeled
5507. □ Utility Penetration shielding at 21 BM in place and labeled
5508. □ Dipole Shadow shield at Cell 22 Girder 6 in place, banded and labeled
5509. □ Ratchet Wall Plug (Front end) shielding at 22 ID in place and labeled

**Outside Storage Ring Tunnel Pentant 5**

**Check 5601 through 5630 along the storage ring outer wall**

5601. □ Utility Penetration shielding at 16 ID in place and labeled (inside hutch)
5602. □ Fixed concrete blocks (2) at 16 BM in place and labeled (inside hutch)
5603. □ Ratchet Wall Plug (Front end) shielding at 16 BM in place, banded and labeled
5604. □ Utility Penetration shielding at 16 BM in place and labeled
5605. □ Ratchet Wall Collimator shielding at 17ID in place and labeled (This verifies Burn Through Device #3 in ratchet wall is present)
5606. □ Utility Penetration shielding at 17 ID in place and labeled (inside hutch)
5607. □ N/A Fixed concrete blocks (2) at 17 BM in place (blocks cannot be accessed)
5608. □ Ratchet Wall Collimator shielding at 17BM in place and labeled
5609. □ Utility Penetration shielding at 17 BM in place and labeled
5610. □ Ratchet Wall Plug (Front end) shielding at 18 ID in place, banded and labeled
5611. □ Utility Penetration shielding at 18 ID in place and labeled
5612. □ Fixed concrete blocks (2) at 18 BM in place and labeled
5613. □ Ratchet Wall Plug (Front end) shielding at 18 BM in place, banded and labeled
5614. □ Utility Penetration shielding at 18 BM in place and labeled
5615. □ Ratchet Wall Plug (Front end) shielding at 19 ID in place, banded and labeled
5616. □ Utility Penetration shielding at 19 ID in place and labeled
5617. □ Fixed concrete blocks (4) at 19 BM in place and labeled
5618. □ Ratchet Wall Plug (Front end) shielding at 19 BM in place, banded and labeled
5619. □ Utility Penetration shielding at 19 BM in place and labeled
5620. □ Ratchet Wall Plug (Front end) shielding at 20 ID in place, banded and labeled
5621. □ Utility Penetration shielding at 20 ID in place and labeled
5622. □ Fixed concrete blocks (2) at 20 BM in place and labeled
5623. □ Ratchet Wall Plug (Front end) shielding at 20 BM in place, banded and labeled
5624. □ Utility Penetration shielding at 20 BM in place and labeled
5625. □ Ratchet Wall Collimator shielding at 21ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)
5626. □ Utility Penetration shielding at 21 ID in place and labeled
5627. □ Fixed concrete blocks (2) at 21 BM in place and labeled
5628. □ Ratchet Wall Plug (Front end) shielding at 21 BM in place, banded and labeled
5629. □ Utility Penetration shielding at 21 BM in place and labeled
5630. □ Ratchet Wall Plug (Front end) shielding at 22 ID in place, banded and labeled (inside hutch)

**Check 5701 on the Storage Ring Mezzanine at Cell 21**
5701. □ Mekometer port cover plate labeled and shielding padlocked (below cover plate)

**Check 5801 in Service Building 5:**
5801. □ Fixed concrete blocks (8) in place and labeled

**Check 5901 through 5903 in the RF Building:**
5901. □ RF utility penetration shielding in place and labeled
5902. □ RF waveguide penetration #2 shielding in place and labeled
5903. □ RF cable tray penetration shielding in place and labeled
Inspected by
Print Name________________ Signature: ___________________ Date: __________

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