Except for the Mekometer Port (checkpoint 3701), all configurations must match the associated photograph located near the checkpoint.

**Inside Storage Ring Pentant 3**

**Check 3001 through 3016 in Cell 5:**

3001. ☐ Utility Penetration shielding at 4 ID in place and labeled  
3002. ☐ Vacuum flange and blank off at Cell 5 between Girder 2 and 3 in place and labeled  
3003. ☐ Dipole chamber mounting brackets at Cell 5 Girder 3 in place and labeled  
3004. ☐ Vacuum Absorber at Cell 5 between Girder 3 and 4 in place and labeled  
3005. ☐ Dipole Shadow shield at Cell 5 Girder 4 in place, banded and labeled  
3006. ☐ Ratchet Wall Plug (Front end) shielding at 4 BM in place and labeled  
3007. ☐ Utility Penetration shielding at 4 BM in place and labeled  
3008. ☐ Dipole Shadow shield at Cell 5 Girder 6 in place, banded and labeled  
3009. ☐ Front End Fixed Aperture Mask at 5ID in place and labeled  
3010. ☐ Front End Burn Through Device #1 at 5ID in place and labeled  
3011. ☐ Front End Collimator #1 shielding at 5ID in place and labeled  
3012. ☐ Front End Burn Through Device #2 at 5ID in place and labeled  
3013. ☐ Front End Collimator #2 shielding at 5ID in place and labeled  
3014. ☐ Safety Shutter #1 shielding at 5ID in place and labeled  
3015. ☐ Safety Shutter #2 shielding at 5ID in place and labeled  
3016. ☐ Ratchet Wall Collimator shielding at 5ID in place and labeled (This verifies Burn Through Device #3 in ratchet wall is present)

**Check 3101 through 3106 in Cell 6:**

3101. ☐ Utility Penetration shielding at 5 ID in place and labeled  
3102. ☐ Dipole Shadow shield at Cell 6 Girder 4 in place, banded and labeled  
3103. ☐ Ratchet Wall Plug (Front end) shielding at 5 BM in place and labeled  
3104. ☐ Utility Penetration shielding at 5 BM in place and labeled  
3105. ☐ Dipole Shadow shield at Cell 6 Girder 6 in place, banded and labeled  
3106. ☐ Ratchet Wall Plug (Front end) shielding at 6 ID in place and labeled

**Check 3201 through 3206 in Cell 7:**

3201. ☐ Utility Penetration shielding at 6 ID in place and labeled  
3202. ☐ Dipole Shadow shield at Cell 7 Girder 4 in place, banded and labeled  
3203. ☐ Ratchet Wall Plug (Front end) shielding at 6 BM in place and labeled  
3204. ☐ Utility Penetration shielding at 6 BM in place and labeled
3205. □ Dipole Shadow shield at Cell 7 Girder 6 in place, banded and labeled
3206. □ Ratchet Wall Plug (Front end) shielding at 7 ID in place and labeled

**Check 3301 through 3321 in Cell 8:**
3301. □ Utility Penetration shielding at 7 ID in place and labeled
3302. □ Vacuum flange and blank off at Cell 8 between Girder 2 and 3 in place and labeled
3303. □ Dipole chamber mounting brackets at Cell 8 Girder 3 in place and labeled
3304. □ Vacuum Absorber at Cell 8 between Girder 3 and 4 in place and labeled
3305. □ Dipole Shadow shield at Cell 8 Girder 4 in place, banded and labeled
3306. □ Ratchet Wall Plug (Front end) shielding at 7 BM in place and labeled
3307. □ Utility Penetration a shielding at 7 BM in place and labeled
3308. □ Dipole Shadow shield at Cell 8 Girder 6 in place, banded and labeled
3309. □ Front End Fixed Aperture Mask at 8ID in place and labeled
3310. □ Front End Burn Through Device #1 at 8ID in place and labeled
3311. □ Front End Collimator #1 shielding at 8ID in place and labeled
3312. □ Reserved for future use.
3313. □ Front End Collimator #2 shielding at 8ID in place and labeled
3314. □ Safety Shutter #1 shielding at 8ID in place and labeled
3315. □ Safety Shutter #2 shielding at 8ID in place and labeled
3316. □ Ratchet Wall Collimator shielding at 8ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)
3317. □ Reserved for future use
3318. □ Reserved for future use
3319. □ Fixed mask #1 at 8BM in place and labeled
3320. □ Fixed mask #2 at 8BM in place and labeled
3321. □ Lead Collimator #1 at 8BM in place and labeled

**Check 3401 through 3412 in Cell 9:**
3401. □ Utility Penetration shielding at 8 ID in place and labeled
3402. □ Fixed mask #3 at 8BM in place and labeled
3403. □ Lead Collimator #2 at 8BM in place and labeled
3404. □ Fixed mask #4 at 8BM in place and labeled
3405. □ Lead Collimator #3 at 8BM in place and labeled
3406. □ Safety Shutter #1 shielding at 8BM in place and labeled
3407. □ Safety Shutter #2 shielding at 8BM in place and labeled
3408. □ Ratchet Wall Collimator shielding at 8BM in place and labeled
3409. □ Dipole Shadow shield at Cell 9 Girder 4 in place, banded and labeled
3410. □ Utility Penetration shielding at 8 BM in place and labeled
3411. □ Dipole Shadow shield at Cell 9 Girder 6 in place, banded and labeled
3412. □ Ratchet Wall Plug (Front end) shielding at 9 ID in place and labeled

Check 3501 through 3516 in Cell 10:

3501. □ Utility Penetration shielding at 9 ID in place and labeled
3502. □ Vacuum flange and blank off at Cell 10 between Girder 2 and 3 in place and labeled
3503. □ Dipole chamber mounting brackets at Cell 10 Girder 3 in place and labeled
3504. □ Vacuum Absorber at Cell 10 between Girder 3 and 4 in place and labeled
3505. □ Dipole Shadow shield at Cell 10 Girder 4 in place, banded and labeled
3506. □ Ratchet Wall Plug (Front end) shielding at 9 BM in place and labeled
3507. □ Utility Penetration shielding at 9 BM in place and labeled
3508. □ Dipole Shadow shield at Cell 10 Girder 6 in place, banded and labeled
3509. □ Front End Fixed Aperture Mask at 10ID in place and labeled
3510. □ Front End Burn Through Device #1 at 10ID in place and labeled
3511. □ Front End Collimator #1 shielding at 10ID in place and labeled
3512. □ Reserved for future use.
3513. □ Front End Collimator #2 shielding at 10ID in place and labeled
3514. □ Safety Shutter #1 shielding at 10ID in place and labeled
3515. □ Safety Shutter #2 shielding at 10ID in place and labeled
3516. □ Ratchet Wall Collimator shielding at 10ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)

Outside Storage Ring Tunnel Pentant 3

Check 3601 through 3630 along the storage ring outer wall

3601. □ Utility Penetration shielding at 4 ID in place and labeled
3602. □ Fixed concrete blocks (2) at 4 BM in place and labeled
3603. □ Ratchet Wall Plug (Front end) shielding at 4 BM in place, banded and labeled
3604. □ Utility Penetration shielding at 4 BM in place and labeled
3605. □ Ratchet Wall Collimator shielding at 5ID in place, banded and labeled (inside hutch) this also insures Burn through Device #3 in ratchet wall is present.
3606. □ Utility Penetration shielding at 5 ID in place and labeled (inside hutch)
3607. □ Fixed concrete blocks (2) at 5 BM in place and labeled (inside hutch)
3608. □ Ratchet Wall Plug (Front end) shielding at 5 BM in place, banded and labeled
3609. □ Utility Penetration shielding at 5 BM in place and labeled
3610. □ Ratchet Wall Plug (Front end) shielding at 6 ID in place, banded and labeled (inside hutch)
3611. □ Utility Penetration shielding at 6 ID in place and labeled
3612. □ Fixed concrete blocks (2) at 6 BM in place and labeled
3613. □ Ratchet Wall Plug (Front end) shielding at 6 BM in place, banded and labeled
3614. □ Utility Penetration shielding at 6 BM in place and labeled
3615. □ Ratchet Wall Plug (Front end) shielding at 7 ID in place, banded and labeled
3616. □ Utility Penetration shielding at 7 ID in place and labeled
3617. □ Fixed concrete blocks (4) at 7 BM in place and labeled
3618. □ Ratchet Wall Plug (Front end) shielding at 7 BM in place, banded and labeled
3619. □ Utility Penetration shielding at 7 BM in place and labeled
3620. □ Ratchet Wall Collimator shielding at 8ID in place, banded and labeled (inside hutch) this also insures Burn through Device #2 in ratchet wall is present.
3621. □ Utility Penetration shielding at 8 ID in place and labeled
3622. □ Fixed concrete blocks (2) at 8 BM in place and labeled
3623. □ Ratchet Wall Collimator shielding at 8 BM in place, banded and labeled(inside hutch)
3624. □ Utility Penetration shielding at 8 BM in place and labeled
3625. □ Ratchet Wall Plug (Front end) shielding at 9 ID in place, banded and labeled
3626. □ Utility Penetration shielding at 9 ID in place and labeled
3627. □ Fixed concrete blocks (2) at 9 BM in place and labeled
3628. □ Ratchet Wall Plug (Front end) shielding at 9 BM in place, banded and labeled
3629. □ Utility Penetration shielding at 9 BM in place and labeled
3630. □ Ratchet Wall Collimator shielding at 10ID in place and labeled (This verifies Burn Through Device #2 in ratchet wall is present)

Check 3701 on the Storage Ring Mezzanine at Cell 9
3701. □ Mekometer port cover plate labeled and shielding padlocked (below cover plate)

Check 3801 in Service Building 3:
3801. □ Fixed concrete blocks (8) in place and labeled
Prepared By: Lewis Doom  
5/27/2016

Approved By: Robert Chmiel  
5/27/2016

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 *****