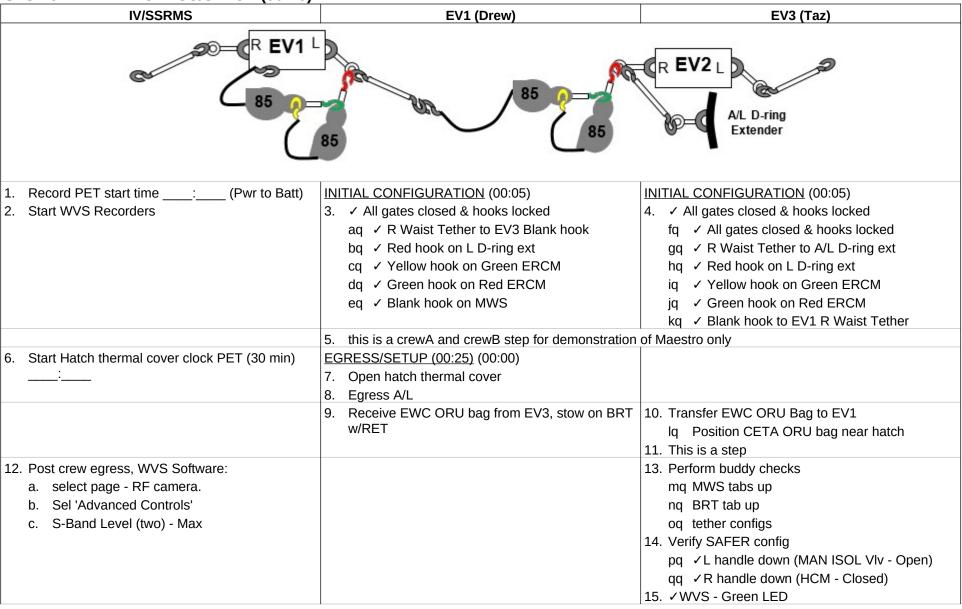
STS-134 EVA 1 - Summary Timeline



STS-134 EVA 1 - EGRESS/SETUP (00:45)



STS-134 EVA 1 - EGRESS/SETUP (00:45)

| IV/SSRMS | EV1 (Drew) | EV3 (Taz) |
|---|---|--|
| | 16. Perform buddy checks rq MWS tabs up sq BRT tab up tq tether configs 17. Verify SAFER config uq ✓L handle down (MAN ISOL VIv - Open) vq ✓R handle down (HCM - Closed) 18. ✓WVS - Green LED 22. Translate to S0 Port Struts 23. Attach EV1 **BLANK** hook to port-outboard strut bbq ✓ Gat closed, hook locked, reels unlocked, release RET 24. Attach EV3 **BLANK** hook to port-inboard strut ccq ✓ Gate closed, hook locked 25. Release EV1 R Waist Tether from EV3 **BLANK** hook | 19. Perform buddy checks wq MWS tabs up xq BRT tab up yq tether configs 20. Verify SAFER config zq ✓L handle down (MAN ISOL VIv - Open) aaq ✓R handle down (HCM - Closed) 21. ✓WVS - Green LED 26. Retrieve CETA ORU bag, stow on BRT with RET |
| | 27. Give **EV3 GO ** to release Waist Tether | 28. On **EV1 GO **, EV3 release right Waist Tether from Airlock internal D-Ring |
| | 29. Translate forward along Lab. 30. Stow EWC ORU bag on Lab HR 0260, 0259 with hinge ISS aft 31. Translate to S1 Face 1, zenith - MISSE 7 Retrieve | 32. Close hatch thermal cover33. Perform translation adaptation34. Translate to S1 Face 1, nadir - MISSE 7 Retrieve |
| 35. Stop Hatch Thermal Cover clock PET (30 min) | | |

STS-134 EVA 1 - MISSE 7 RETRIEVE (01:00)

| IV/SSRMS | EV1 (Drew) | EV3 (Taz) |
|--|---|---|
| Verify inhibits in place a. ✓ Stbd SARJ locked b. ✓ MISSE/ELC-2 inhibits | | |
| | WARNING | WARNING |
| | Do not touch the hinged side while closing the MISSE PECs (Pinch Point) | 7. Do not touch the hinged side while closing the MISSE PECs (Pinch Point) |
| | CAUTION | CAUTION |
| | Beware sharp stuff! Also beware gooey things. Avoid inadverntent contat with the deployed MISSE PECs, which have shatterable materials, and the silver avionics boxes atop the ExPA There isn't a second caution in this block, but I | 8. Avoid inadverntent contat with the deployed MISSE PECs, which have shatterable materials, and the silver avionics boxes atop the ExPA 9. There isn't a second caution in this block, but I wanted to add one here to show that there could be (also for "warning" and "note" blocks). |
| | wanted to add one here to show that there could be (also for "warning" and "note" blocks). | |
| | 10. Translate to S1 Face 2, zenith route aq Fairlead on S0 HR 3467 (bay 1) 11. Attach "GREEN" hook on S1 HR 3208 (bay 17) bq ✓ Gate closed, hook locked, reels unlocked, release RET 12. Translate zenith to ELC-2 cq Fairlead on S3 HR 3052 (face 1) 13. Photograph deployed PECs a. PEC 7B (✓ Ram/Fwd side, ✓ Aft side) b. PEC 7A (✓ Zenith side, ✓ Nadir side) c. ✓✓ Overall View (2 angles) | 14. Translate to S1 Face 6, nadir route 15. Attach "'GREEN" hook on S1 HR 3217 or Xo 5790 (bay 17) dq Gate closed, hook locked, reels unlocked, release RET 16. Translate outbd to bay 19 17. Stow CETA ORU bag on S3 HRs 3046, 3038 18. Translate zenith to ELC2 |
| | | 19. If EV1 complete with photos of PEC 7B, close PEC 7B eq All 4 PIP pins are re-installed 20. Disconnect connector from PEC 7B fq RET, remove cap from dummy connector J7B gq Demate connector from PEC hq Mate connector to dummy connector J7B (✓ no FOD, pins) iq Install cap onto PEC 7B |

STS-134 EVA 1 - MISSE 7 RETRIEVE (01:00)

| IV/SSRMS | EV1 (Drew) | EV3 (Taz) |
|----------|--|---|
| | 21. Close PEC 7A | 22. Disconnect connector from PEC 7A |
| | jq ✓ All 4 PIP pins are re-installed | kq RET, remove cap from dummy connector J7A |
| | | lq Demate connector from PEC |
| | | mq Mate connector to dummy connector J7A (no FOD, pins) |
| | | ng Install cap onto PEC 7A |
| | | 23. Release PEC 7B (2 PIP pins), stow on BRT w/RET (nadir HR) |
| | | oq Reinstall Socket PIP pins (2) |
| | | 24. Release PEC 7A (release 2 PIP pins), stow on BRT w/RET (RAM HR) |
| | | pq Reinstall Socket PIP pins (2) |
| | CAUTION | CAUTION |
| | 25. When translating around fwd edge of Node 2 an PMA2, avoid contact with Shuttle | d 26. When translating around fwd edge of Node 2 and PMA2, avoid contact with Shuttle |
| | 27. Retrieve GREEN hook from S1 HR 3208 | 37. Retrieve GREEN hook from S1 HR 3217 or Xo |
| | qq Gate closed, hook locked, reels unlocked, | 5790 |
| | release RET 28. Translate to Node 2, along port/zenith | uq Gate closed, hook locked, reels unlocked, release RET |
| | STOW MISSE 7A IN PLB (00:10) | 38. Translate to Node 2, stbd/zenith route |
| | 29. Attach GREEN hook on Node 2 HR 0344 | vq Fairlead on Lab HR 0247 with wrist Adj |
| | rq Gate closed, hook locked, reels unlocked, | wq Fairlead on Node 2 HR 0314 |
| | release RET | xq Face toward Col and Node 2 |
| | 30. Translate to Orbiter, port, bay 4 | WARNING |
| | 31. Remove SWC latch PIP pins (2) | 39. Stay = 2 ft from exposed EFGF connector when |
| | 32. Release latch (2) from stow position | OBSS berthed, powered, and EFGF not grappled |
| | 33. Stow PEC 7A in carrier (HRs out, Probe up) | STOW MISSE 7B IN PLB (00:15) |
| | 34. Lock fwd latch in landing config | 40. Translate to Orbiter, stbd, bay 4 |
| | sq Install PIP pin | 41. Remove SWC latch PIP pins (2) |
| | 35. Retrieve RET | 42. Release latch (2) from stow position |
| | 36. Lock aft latch in landing config | 43. Stow PEC 7B in carrier (HRs out, Probe up) |
| | tq Install PIP pin | 44. Lock aft latch in landing config |
| | | yq Install PIP pin |
| | | 45. Retrieve RET |
| | | 46. Lock fwd latch in landing config |
| | | zq Install PIP pin |

STS-134 EVA 1 - MISSE 7 RETRIEVE (01:00)

| IV/SSRMS | EV1 (Drew) | EV3 (Taz) |
|----------|---|---|
| | 47. Glove and Gauntlet check | 49. **Glove and Gauntlet check** |
| | 48. Translate aft to Bay 9 - MISSE 8 Retrieve | 50. "Translate aft to S3 Face 1 - S3 CETA Light |
| | | Install''' |

STS-134 EVA 1 - MISSE 8 Install (00:40)

| IV/SSRMS | EV1 (Drew) |
|----------|------------|
| 1. TBD | 2. TBD |

STS-134 EVA 1 - S3 CETA Light Install (00:25)

| IV/SSRMS | EV3 (Taz) |
|----------|-----------|
| 1. TBD | 2. TBD |

STS-134 EVA 1 - Stbd SARJ Cover 7 Install (00:25)

| IV/SSRMS | EV3 (Taz) |
|----------|-----------|
| 1. TBD | 2. TBD |

STS-134 EVA 1 - P3/P4 NH3 Jumper Install (00:35 / 00:25)

| IV/SSRMS | EV1 (Drew) |
|----------|------------|
| 1. TBD | 2. TBD |

STS-134 EVA 1 - P5/P6 NH3 Jumper Install / N2 Vent (00:35)

| IV/SSRMS | EV1 (Drew) |
|----------|------------|
| 1. TBD | 2. TBD |

STS-134 EVA 1 - P3/P4 NH3 Jumper Temp Stow (00:35)

| IV/SSRMS | EV3 (Taz) |
|----------|-----------|
| 1. TBD | 2. TBD |

STS-134 EVA 1 - EWC Antenna Install (02:20 / 02:45)

| IV/SSRMS | EV1 (Drew) | EV3 (Taz) |
|----------|------------|-----------|
| 1. TBD | 2. TBD | 3. TBD |

STS-134 EVA 1 - VTEB Cleanup (00:25)

| IV/SSRMS | EV1 (Drew) |
|----------|------------|
| 1. TBD | 2. TBD |

| IV/SSRMS | EV1 (Drew) | EV3 (Taz) |
|----------|------------|-----------|
| 1. TBD | 2. TBD | 3. TBD |