



PC 2/3 WEST INSTALLATION PROCEDURE

PHENIX Procedure No. PP-2.5.5.4-17

Revision:A

Date: 12-14-00

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approvals

Peter Kim 12/14/00
 PHENIX S E & I Date

Michael Sweet 12/14/00
 Cognizant Scientist/Engineer Date
 /Activity Manager

William E. King 12/14/00
 PHENIX Safety Date

Charles Bean 12/15/2000
 C-AD SAFETY Date

REVISION CONTROL SHEET

LETTER	DESCRIPTION	DATE	WRITTEN BY	APPROVED BY	CURRENT OVERSIGHT
A	First Issue	12/14/2000	n/a	P. Kroon, M.Sivertz, W. Lenz, C. Pearson	n/a
RETIRED	Installation Complete	3/21/2007	n/a	D. Lynch, P. Giannotti, R. Pisani for PHENIX	D. Lynch

5.0 Procedure

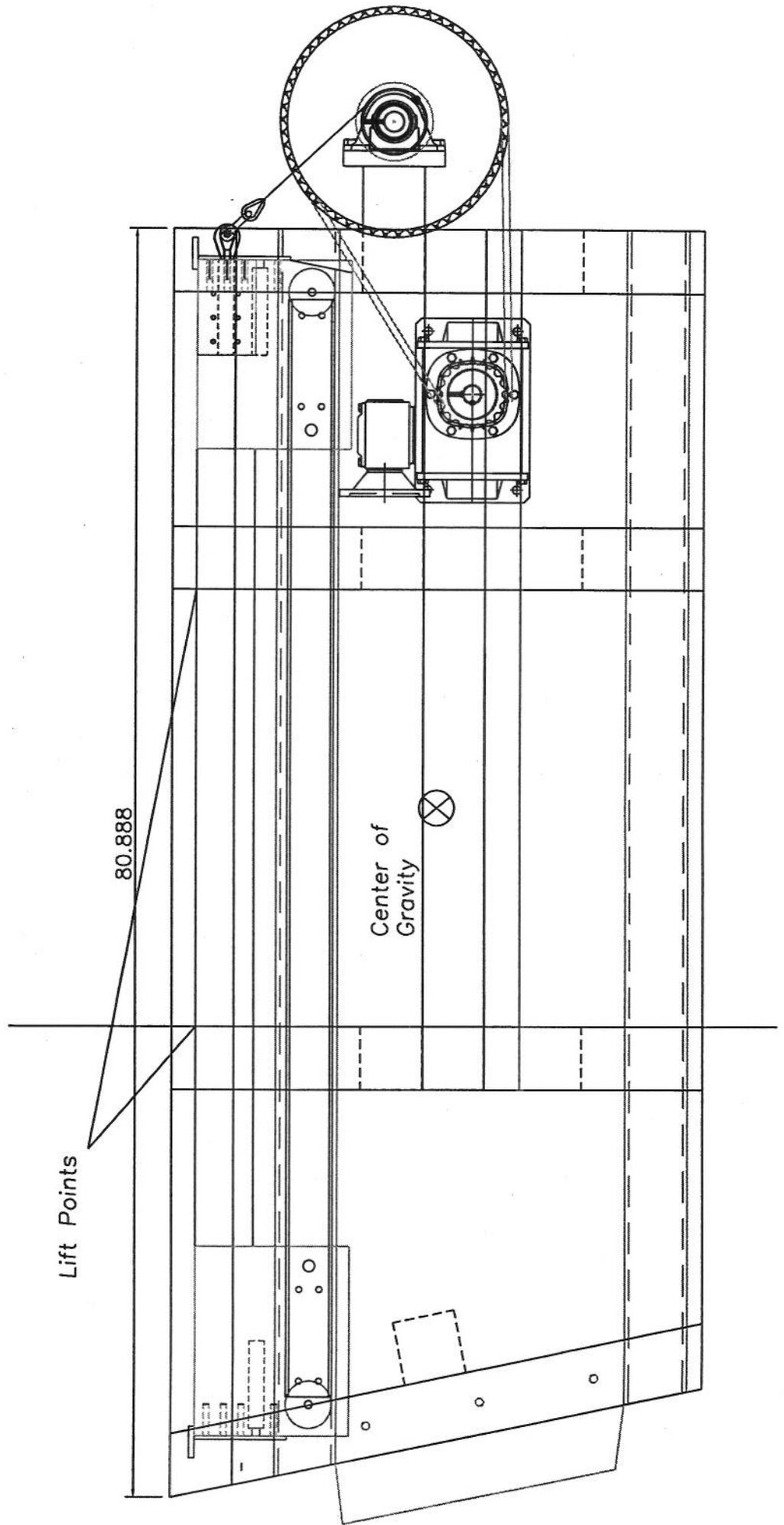
1. Check that the West Carriage is clear of people working.
2. Lift the spreader bar using the large crane hook in the IR.
3. Attach a 36 inch sling to each of the four shackles on the installation fixture.
4. Loop the ends of the slings over the trunnions
5. Put on the trunnion covers to ensure the slings do not come off during lifting.
6. Attach a 36 inch sling to the shackle at the center of the drive shaft support.
7. Loop this sling over the small crane hook.
8. Raise the large hook until the installation fixture is off the rolling cart.
9. Raise the small hook until the installation fixture is at an angle of approximately 22.5 degrees.
10. Lift the large hook until the height of the installation fixture is level with the West Carriage Pad Chamber Support Towers.
11. Adjust the small hook until the angle of the installation fixture is at 22.5 degrees.
12. Bring the installation fixture over to the West Carriage.
13. Adjust the height and position of the crane until the alignment tabs on the installation fixture engage with the top of the towers.
14. Using the man-lift, check that the rails carrying the chambers on the installation fixture line up with the rails on the towers.
15. Strap the installation fixture to the tower to ensure that the fixture does not move during the rolling stage of the installation.
16. When satisfied with the alignment of the rails, remove the bolt locking the chambers to the installation fixture.
17. Engage the motor allowing the chambers to roll down the rails.
18. Immediately after the chamber has left the installation fixture, verify that the cable is in the cable guide.
19. When the chamber is nearing its location on the tower, stop the lowering process while the chamber has about a foot left to travel.
20. Attach the stop blocks inside the North and South rails, between the lower and upper wheels of the chamber frame.
21. Continue lowering the chambers until the top wheels are resting on the stop blocks.
22. Secure a bolt through the tower beam, rail, stop block and chamber frame locking the frame in place to the tower on both the North and South side.
23. Unbolt the cable from the chamber.
24. From the man-lift, pull up the loose cable and secure it to the installation fixture.
25. Remove the straps holding the installation fixture to the towers.
26. Lower the crane bringing the installation fixture to the rolling cart.

6.0 Documentation

All drawings for the installation fixture and H-frame are part of the PHENIX configuration control, and can be viewed in `/phenix/u/sivertz/drawings/west_carriage` on the rcf cluster.

7.0 References

None.



Lift Points

80.888

Center of Gravity