

Procedure for servicing the Alternator/Flywheel oil strainers

Date: _____

Personal: _____

- 1. Disarm turning gear call out system Loc #203
- 2. Turning gear – Stop Loc #202
- 3. Hot gas circulator – Off Loc#202
- 4. Helium gas supply to alternator – Close valve's to both bottles on manifold
- 5. All lift pumps SB switch -- lock stop Loc # 202
- 6. All lube oil pump SB switches #1,2,3,4--lock stop Loc#203 & 443
- 7. Seal oil tank drain pump---Off Loc # 202
- 8. Cuno filter pump -- Off Loc # 202
- 9. Helium cabinet DC breaker –ON Loc #216E

- 10. Open all lube oil pump starter circuit breakers –apply MIT lockout Tag-out procedure. Loc# MCCB 2I,2K and MCCA 6E,2I
- 11. Assure no seal oil diet alarms. Loc # Seal Oil Pit
- 12. Assure no oil pressure (Ops) at strainer basket
- 13. Drain oil from bottom of oil strainer using the gate valve on bottom of strainer. Put clean drain oil in the alternator lube oil tank.
- 14. Loosen strainer cover bolts and then remove cover.
- 15. Visually inspect the cover gasket condition and replace if necessary, also inspect the condition of the strainer basket including the mounting hardware assuring it is properly secured.
- 16. Carefully remove the strainer basket from the housing after removing the allen head cap screws and hold down jigs.
- 17. Inspect the interior of the strainer housing for any debris or foreign objects, be careful not to leave any tools or rags inside the housing.
- 18. Cover the open top of the strainer basket with a clean piece of wood, do not use a rag.
- 19. Clean the strainer basket.
- 20. Before reinstalling the strainer basket check the housing to assure that it is clean and void of any rags ,bolts, screws, washers, wood chips,..etc...
- 21. Evenly secure the strainer to the housing using the allen head cap screws and hold down jigs that were removed in step # 16

- 22. Both participants to inspect strainer installation to assure that it is properly fastened in place.
- 23. Reinstall top cover of the strainer and fasten bolts evenly around the perimeter.
- 24. Reattach any sensing lines, pressure gauges etc..
- 25. Close the bottom gate valve on strainer housing and reinsert pipe plug.
- 26. Remove locks/tags from lube oil starters and close starter breakers Loc# MCCB 2I, 2K and MCCA 6E,2I
- 27. One person to closely monitor strainer for leaks as the second person jogs the pump using the SB switch a few cycles —Loc#203
- 28. With no leaks pump may be left in the auto-start position –check pressure of strainer should be approximately 30 psi, and the differential pressure across the strainer should be “0” psi
- 29. Restart lube oil pumps for turning gear – Loc# 203 &443 and turn remaining lube oil pump SB switches to auto –start – Loc # 203 &443
- 30. Seal oil tank drain pump --- On – Loc #202
- 31. Cuno filter pump – On – Loc# 202
- 28. Bleed air from alternator lift pump oil supply from bleeder valve on the top lift pump filter strainer.
- 29. Start all lift pumps – Run then auto start—Loc # 202
- 30. Open valves to helium bottles on gas manifold - open bypass filling machine until the helium pressure gauge on the Helium panel reads 1psi then close bypass and allow the small regulator to meter the gas to the machine.

- 31. Vent the gas to atmosphere from the rear of the helium panel thru the flow meter at a rate of 1cc/min and monitor the gas purity for a period of 1 hour. It may be necessary to add more gas to the machine to bring the level of purity above 90%

- 32. Helium gas DC breaker – Off – loc#216E

- 33. Start turning gear

- 34. Arm call out system.