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Procedure for servicing the Alternator/Flywheel Seal oil Strainer's

Date: _____

Personal: _____

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☐1. Disarm turning gear call out system Loc #203

☐2. Turning gear – Stop Loc #202

☐3. Hot gas circulator – Off Loc#202

☐4. Hot water pump – Off Loc #202

☐5. Helium gas supply to alternator – Assure low pressure gas regulator is not running out of regulation. Occasionally the regulator will oscillate violently and must be adjusted to a lower back pressure to lessen this effect.

☐6. All lift pumps SB switch -- lock stop Loc # 202

☐7. All lube oil pump SB switches #1, 2, 3, 4--lock stop Loc#203 & 443

☐8. Seal oil tank drain pump---Off Loc # 202

☐9. Cuno filter pump -- Off Loc # 202

☐10. Helium cabinet DC breaker –ON Loc #216E

☐11. Open all lube oil pump starter circuit breakers –apply MIT lockout Tag-out procedure. Loc# MCCB 2I, 2K and MCCA 6E, 2I

☐12. Open Main seal oil circuit breaker Loc# MCCB (2G) – apply MIT lockout Tag out procedure.

☐13. Assure no seal oil diet alarms. Loc # Seal Oil Pit

☐14. Close and tag SO valve #57 that feeds the Strainer

☐15. Assure no oil pressure (0psi) at Seal Oil Strainer basket

☐16. 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.

☐17. Loosen strainer cover bolts and then remove cover.

☐18. 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.

☐19. Carefully remove the strainer basket from the housing after removing the allen head cap screws and hold down jigs.

☐20. 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.

☐21. Clean the strainer basket. Making note of the contents...are any metals present?

☐22. 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…

☐23. Evenly secure the strainer to the housing using the allen head cap screws and hold down jigs that were removed in step # 16

☐24. Both participants to inspect strainer installation to assure that it is properly fastened in place.

☐25. Reinstall top cover of the strainer and fasten bolts evenly around the perimeter.

☐26. Reattach any sensing lines, pressure gauges etc..

☐27. Close the bottom gate valve on strainer housing and reinsert pipe plug.

☐28. Remove locks/tags from lube oil starters and close starter breakers Loc# MCCB 2I, 2K and MCCA 6E,2I

☐29. Restart alternator lube oil pump #2 and flywheel lube oil pump#4 by turning SB switch to auto start position. –Assure pressure

☐30. Remove tag and slowly crack open SO valve #57 that feeds the Strainer, and assure there are no leaks… if there are leaks re-close the valve immediately, and proceed to step#6

☐31. With no evidence of any oil leaks-- fully open SO valve #57

☐32. Check the output pressure of the strainer it should be approximately 20 psi, and the differential pressure across the strainer should be “0” psi

☐33. Turn lube oil pumps #1 and #3 to auto start position

☐34. Remove locks/tags from Main Seal oil Pump Starter and close breaker Loc# MCCB (2G)

☐35. Seal oil tank drain pump --- On – Loc #202

☐36. Cuno filter pump – On – Loc# 202

☐37. Bleed air from alternator lift pump oil supply from bleeder valve on the top lift pump filter strainer.

☐38. Start all lift pumps – Run then auto start—Loc # 202

☐39. 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.

☐40. 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% - Close vent valves when completed

☐41. Helium gas DC breaker – Off – loc#216E

☐42. Start turning gear

☐43. Hot water Pump—ON Loc# 202

☐44. Hot gas circulator –ON Loc #202

☐45. Arm call out system.