

Test and Repair of an Exchanger (in place)

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applies to

MATERIAL SAFETY DATA SHEETS
Hazardous Energy Control Procedure
Work Permit Procedure
Lock Out/ Tag Out Procedure
Lifting Procedure
Welding on Towers/Vessels or Exchangers Procedure

Refer to proper MATERIAL SAFETY DATA SHEETS

This procedure requires qualified craftsmen.

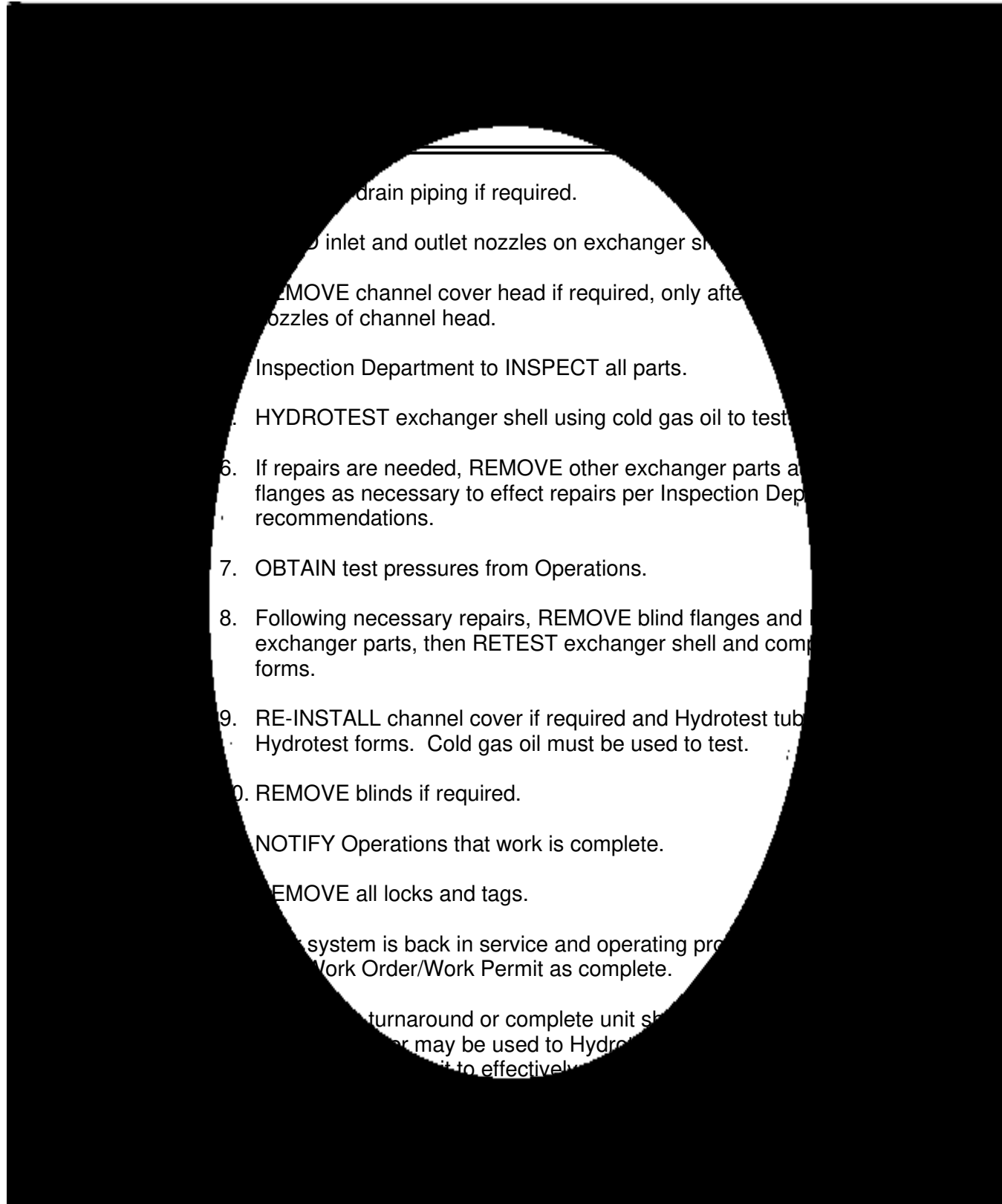
1. REVIEW this procedure with the Operations and Maintenance personnel. ENSURE all steps and cautions are clear and all hazards are DEFINED. Match the proper MATERIAL SAFETY DATA SHEETS to equipment service.
2. Use special precautions defined on MATERIAL SAFETY DATA SHEETS and verify operation of all safety showers and eyewash stations in area to ENSURE they are in good working order.
3. Field VERIFY with Operations that the equipment has been DE PRESSURIZED, and BLED DOWN. VERIFY that the equipment is HOLDING satisfactorily.

INSTALL locks and tags where required per Lock Out/Tag Out Procedure

Maintenance personnel shall VERIFY with the unit operator that applicable equipment is LOCKED and TAGGED. VERIFY that the equipment is UNAVAILABLE (Lock, Tag, Test, Try).

and OBTAIN Work Permit at this time.

PROCEDURE TEST AND REPAIR AN EXCHANGER (IN PLACE)



- 5. ... drain piping if required.
- 6. ... inlet and outlet nozzles on exchanger shell
- 7. REMOVE channel cover head if required, only after ...
nozzles of channel head.
- 8. ... Inspection Department to INSPECT all parts.
- 9. HYDROTEST exchanger shell using cold gas oil to test
- 10. If repairs are needed, REMOVE other exchanger parts and
flanges as necessary to effect repairs per Inspection Dep
recommendations.
- 11. OBTAIN test pressures from Operations.
- 12. Following necessary repairs, REMOVE blind flanges and
exchanger parts, then RETEST exchanger shell and comp
forms.
- 13. RE-INSTALL channel cover if required and Hydrotest tub
Hydrotest forms. Cold gas oil must be used to test.
- 14. REMOVE blinds if required.
- 15. NOTIFY Operations that work is complete.
- 16. REMOVE all locks and tags.
- 17. ... system is back in service and operating pro
Work Order/Work Permit as complete.
- 18. ... turnaround or complete unit sh
... may be used to Hydro
... to effectively