WORK INSTRUCTION

APPROVALS

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REVISION HISTORY

AUTHOR	*REVISED SECTION/PARAGRAPH*	*REV*	*RELEASED*
Rex Gustafson]	**Initial Release,**	[A]	11/2/2012

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1. PURPOSE

This document describes the requirements for performing a 6-month PM on Delatech 858/859 recirc. and non-recirc. CDO scrubbers.

2. SCOPE

This procedure contains the required steps for cleaning and inspecting components critical to the operation of Delatech 858/859 recirc. and non-recirc. CDO scrubbers.

3. DEFINITIONS

- PM – Preventative Maintenance
- CDO – Controlled Decomposition/Oxidation

4. RESPONSIBILITIES

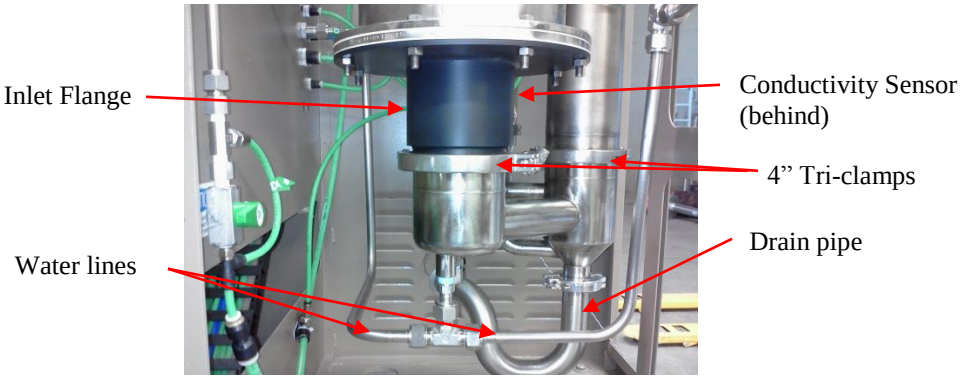
- Todd Erickson – Approver
- Rex Gustafson – Author

5. WORK INSTRUCTION

5.1 Shut down the CDO and allow to cool prior to performing preventative maintenance per the CDO shutdown procedure in section 7 of the CDO service manual.

5.2 Transition Section

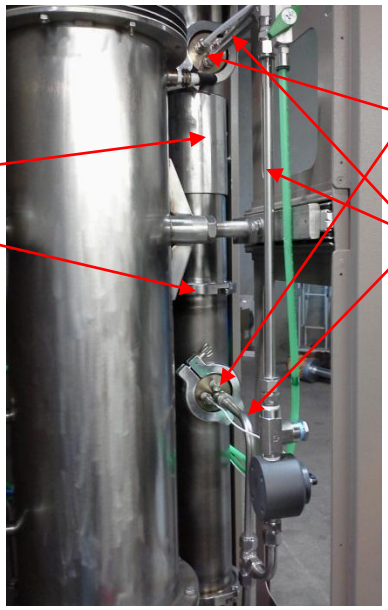
- To remove, disconnect all water lines, drain pipe, conductivity sensor and the two 4" Tri-clamps from the section.



- Inspect all o-rings and gaskets.
- Thoroughly clean the inside of the transition section and inspect the coating (inside only).
- Inspect the spray nozzle and verify that water flow is not restricted.
- Looking up into the heater (through inlet flange) inspect the wall of the heater liner for buildup. You may need to remove the inlet flange. If buildup is found, remove liner and clean.

5.3 Upper and Lower Scrubbing Sections

- Disconnect water and air lines from upper and lower flange assemblies.
- Remove clamps and flange assemblies from scrubbing sections.
- Inspect flange o-rings and spray nozzles. Verify water flow through nozzle is not restricted.



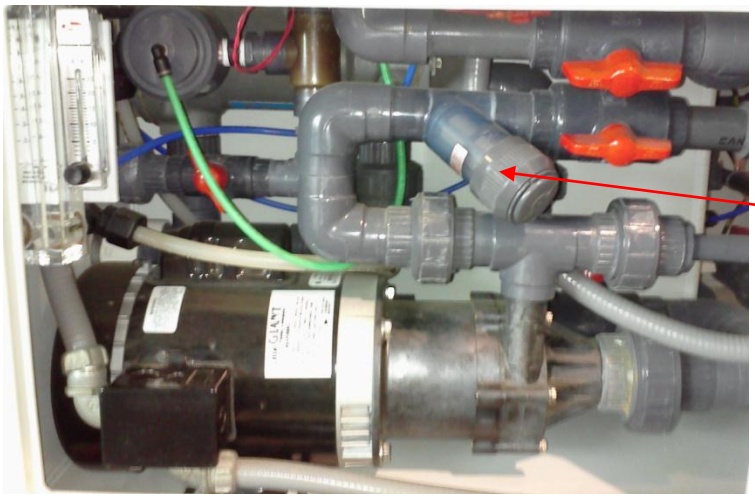
- Remove 4" clamp and band clamp and remove upper and lower scrubber sections.
- Remove baskets and scrubber balls from scrubber sections
- Clean scrubber balls by rinsing with clean water. Inspect the coating on the baskets and the insides of the scrubber sections and inspect all o-rings and gaskets.

5.4 Inspect heater wires and rubber boots. Verify they are not brittle or corroded and terminal crimp is in good condition.

5.5 <u>If PM is being performed on a non-recirc. scrubber, reassemble and return to normal operation. The PM for recirc. units continues below.</u>

5.6 Recirculation and Sump Tank Plumbing.

- Remove plexiglas panels from front and right side of scrubber and inspect all plumbing and pumps for leaks or any signs of leaks (i.e. water stains).
- Remove cap from Y-strainer and clean and inspect filter. Verify it is free of cracks or holes.



- Remove tank cover and drain/pump water from the tanks on the left side of the scrubber. Remove all remaining sediment from the bottom of the tanks. This will help keep the nozzles free of debris and clogging.
- Refill the front two tanks with water prior to restarting the scrubber

5.7 Reassemble scrubber and return to normal operation.