



## GENERAL ELECTRIC TECHNICAL INFORMATION LETTERS (TIL's) STEAM TURBINE EHC SYSTEMS

This list is information for the benefit of our Reolube Turbofluid customers. It is not guaranteed to be complete or current. For updates and copies, please contact GE or the appropriate local representative. It would be appreciated if you could please advise us of any updates or suggested additions.

TIL No.	Issue Date	Title and Brief Description
1745	Jul 22, 2010	Inspection and Maintenance of Hydraulic Power Unit Flex Hose. Re: Basically, refers to 363A7427.
1722	Jan 27, 2010	Hydraulic Control Oil Contamination on Medium Steam Turbines with EHC Systems. Re mineral oil.
1569	Mar 23, 2007	Recommendations for Proper Installation of High-Pressure Hydraulic Tubing on GE Steam Turbines.
1165-3	May 1, 1991	Periodic Operational Testing (off-line) of Mechanical Overspeed Trip Devices on 1500 rpm and 1800 rpm Nuclear Large Steam Turbines.
1142-2	Dec 7, 1993	Plastic Plugs Used in Auxiliary Parts of Oilgear Trip and Reset Solenoid Valves.
1130-2	Mar 8, 1994	Electrohydraulic Control (EHC) System - Filter Element Gasket Material. Re: Use of inappropriate elastomer on the backup filter elements.
1123-3	Oct 14, 1992	Hydraulic Leaks in BWR Steam Turbine Electrohydraulic Control Systems. Re: Replacing accumulator and control manifold package, replacing 0.5" lines, and adding shutoff valves.
1115-3R1	May 8, 1992	Replacement of Large Steam Turbine EHC Hydraulic Power Unit Main Pumps. Re: Advising that Denison PV09 pumps will be available and replacement for Vickers PV2 pumps.
1089-2	Nov 1, 1990	Hydraulic Power Unit Pump Discharge Piping Modifications. Re: Weld failures on units with the 800-gallon reservoirs and the need to replace piping.
1053-4	Dec 11, 1989	EHC Hydraulic Power Unit-Hilco Fuller's Earth Cartridge Redesign Re: Fact that new ones have 26% less media and advising on correct part numbers.



**Page 2 of 3**

1050-3R1	Mar 9, 1990	Electro-Hydraulic Control (EHC); Front Standard Electrical Trip Solenoid Valves (ETSV). Re: Improved single coil type.
969-3R1	Dec 27, 1993	Periodic Turbine Steam Valve Tests - Nuclear Steam Turbines.
966-2	Mar 5, 1984	Periodic Operational Tests - EHC Mark I Trip Systems Re: GEK-17812E.
957-3	Mar 11, 1983	Maintenance Recommendations for Camshaft Operated Control Valves. Re: GEK 72354.
949-3	May 19, 1982	Maintenance of Main Stop Valves for Fossil Turbines Re: GEK 85280.
946-3	Mar 8, 1982	EHC Mark II Standby Mechanism Re: Inspection and mechanical alignment.
945-2	Mar 8, 1982	EH Hydraulic Power Unit TAFEFU Safety Recommendations. Re: Possible over pressurization of the re-circulating tank.
923-3	Mar 18, 1981	EHC Disk Dump Valves. Re: Sticking because of tight clearances.
895-2	Feb 1, 1980	EHC Mark I Mechanical Trip Valve Re: New stainless-steel valves.
894-4	Dec 17, 1979	EHC Hydraulic Shutoff Valves. Re: Installing valves for on-line servo-valve isolation.
890-39	Nov 27, 1979	Recommendations for the Maintenance of Separately Mounted Fossil Control Valves with Individual Actuators on Large Steam Turbines
877-3	Oct 2, 1978	EHC Hydraulic Power Unit Re: Upgrades to back-up filter and fullers earth housings, air breather and space heaters, gages and pressure transducer vibration, differential pressure switch tester, Aquavid tester, fluid dehydration rigs, 'O' ring kit, and tests & maintenance.
848	Oct 21, 1977	Solenoid Valves on EHC Control Pass. Re: Replacing with D3W solenoid valves as air gap solenoid valves reportedly tended to hang-up.
841-3a	Jul 27, 1977	EHC Hydraulic System Improvements. Re: Replacing 37° flared tube fittings.



**Page 3 of 3**

796-2	Dec 29, 1975	Water Contamination of EHC Fluid Through the Coolers. Re: Reducing water pressure to atmospheric and making the fluid higher. Plus relocating cooling water control valve to the upstream side.
785-3	Aug 4, 1975	Restricting Flow Through Flushing Valves During EHC Flushing. Re: Wear debris from valves.
769-2	Mar 19, 1975	EHC Fluid Systems Valve Test.
759-1	Jan 9, 1975	EHC Hydraulic Power Unit Filters. Re: Fuller's earth contamination, the need to check for the centering springs in the back-up filter, removing the internal pressure relief valves in the purification media top cap filter and the need for notches on the bottom endcaps of the pump discharge filter element.
487	?	Handling & Storage of EHC Components.

**Other**

GEK 46355F	May 1991	Hydraulic Power Unit Water-Cooled
GEK 107564	Dec 2000	Flushing VF Series Steam Turbine Lube and Control Oil Systems.
GEK 100407B	May 2003	Recommended Hydraulic Flushing Procedure.
363A7427	Nov 1998	High Pressure Hydraulic Interconnecting Notes re tubing, supports, and fittings.
229A9390	Aug 2010	Application, Hydraulic Hoses (Phosphate Ester Use). Re hose installation, requirements, replacement, etc. See Table 3 re approved hoses and types.

**Canoil Canada Ltd., Mississauga, ON Canada**

**Website: [www.canoilcanadalt.com](http://www.canoilcanadalt.com) E-mail: [info@canoilcanadalt.com](mailto:info@canoilcanadalt.com)**

**Phone: 905-820-2022 Toll free NA 1-855-520-2022**

**Mar 2021**