



## UFS Corporation

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# Service Reference

## Topic: Electrolyte Circulation Pump Failure

*Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work or unpacking any further.*

### Required Materials

- DI water line
- Piping adapter(s)

### Required Tools

- Adjustable wrench (10")
- Pipe wrench
- Strap wrench

Whenever the electrolyte circulation pump fails, circulation is lost inside the Cell. The loss of circulation means that oxygen is not removed from the face of the electrode and heat is allowed to increase. If this condition persists, then paint solids can build up on the outside of the membrane (from heating up paint solids) and increase the erosion rate of the 316L Electrodes. If this happens, install a temporary DI water line to the electrolyte pump discharge line to circulate the fluid until the pump is repaired. Run the DI water for 10 minutes every hour (or 5 minutes every half-hour).

1. Install a temporary DI water line to the tank discharge. (Confirm installation location is down stream of the check-valve.)
2. Attach a threaded connection to the DI water line, since the line will have a high pressure.
3. Run the DI water for 10 minutes every hour. (Can also be run for 5 minutes every half-hour.)
4. Do not allow the temperature of the electrolyte to exceed the ED bath temperature by 3<sup>0</sup> C.

**For more information** see the original manual that came with the equipment or call UFSc at the phone number shown above.