Replacement of DCH Chiller pump

- Read and sign JHAM “DCH Chiller JHAM”
- Notify shift leader of planned work
- Press “pump off” button on the front panel of the chiller.
- Lockout breakers 7, 9 and 11 in panel 2PB620-02(on the south wall of IR2) per SLAC Lock and Tag procedure.
- Verify that power has been removed by switching off the main disconnect on the front of the chiller, opening the box, and, using an appropriate meter (minimum class II) and PPE (electrical gloves, class 00 and safety glasses/goggles), verify that all 3 phases are de-energized.
- Close MV 1, 2, 5, and 6 at rear of chiller (see diagram on last page).
- Open MV 9, under water tank. Drain tank.
- Close MV 9
- Remove top cover and right side panel from chiller.
- Remove flow switch from side of flowmeter, on top of pump (4 screws).
- Disconnect large pipe union on inlet to pump (water will run out).
- Disconnect ¼” Swagelok fitting on far side of pump.
- Note wiring connections, disconnect wires, and remove flex conduit from pump.
- Unbolt pump from chiller base.
- Loosen hose clamp on 1” NyloBrade hose at heat exchanger end and slide hose off hose barb.
- Remove pump.
- Remove fittings from old pump and install on new pump (inlet, outlet, ¼” Swagelok, and 1/8” pipe plug). Note orientation of elbow on outlet.
- Install flex conduit fitting in electrical service port in new pump motor.
- Place pump on chiller base, slide NyloBrade hose over hose barb on heat exchanger.
- Reconnect the pipe union on pump inlet and ¼” Swagelok fitting.
- Tighten hose clamp on 1” hose.
- Bolt pump to chiller base.
- Reconnect flex conduit and electrical wiring, using notes made previously.
- Recheck that MV 9 is closed, and refill water tank to within ~2” of the top.
- Open MV 1, 2, 5, and 6.
- Remove locks from breakers and restore power.
- Press “pump on” button on front of chiller and hold until the panel lights are green.
- Check that water level in tank is ~2” from the top and fill as necessary.