

ARGONNE NATIONAL LABORATORY

HIGH ENERGY PHYSICS DIVISION

AWA

ARGONNE WAKEFIELD ACCELERATOR

CHILLER OPERATING PROCEDURES

Approved:

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CHILLER OPERATION

The Chiller may be operated in either of two modes, manual or automatic startup. The Chiller may be operated in the manual mode at any time. It may be set to the automatic mode after a preset time (currently approximately 10:00 AM and it will turn on at a second preset time (currently approximately 7:00 AM) on the next weekday (Monday through Friday). The front panel main power breaker and the Circulator Heater switch should normally be left on at all times.

MANUAL MODE:

1. Set the AUTO-OFF MANUAL switch to the "MANUAL" mode.
2. The Chiller should immediately begin operating (indicated by the sound of the pump and/or compressor operating and the front panel temperature indicator becoming active).
3. Once coolant flow to the roof devices has reached a preset level, the Circulator Heater will turn on.
4. The Chiller and Circulator Heater will continue to operate until the AUTO-OFF MANUAL switch is set to the "OFF" position, at which time the Chiller will shut down and the Circulator Heater will de-energize.

AUTOMATIC MODE:

1. After approximately 12 Noon on any day, set the AUTO-OFF MANUAL switch to the "AUTO" mode.
2. Make sure that the Circulator Heater power switch is in the "ON" position.
3. At the preset "ON" time of the next weekday (Monday through Friday) the Chiller and the Circulator Heater will begin operating as in the "MANUAL" mode. Operation will continue until the AUTO-OFF MANUAL switch is set to the "OFF" position.
4. If the AUTO-OFF MANUAL switch is set to the "AUTO" position while the timer is in the "ON" condition (too early in the day preceding operation), the Chiller and Circulator Heater will immediately begin operation and continue to operate until the AUTO-OFF MANUAL switch is set to the "OFF" position. Should this happen, set the system to "OFF" and wait until a later time to set the system for automatic startup.