BLDG 88—POWER RESTORATION CHECKLIST
EMERGENCY PROCEDURE

APPLICATION
Standby generator operation and power restoration in Building 88 after an electrical power outage.

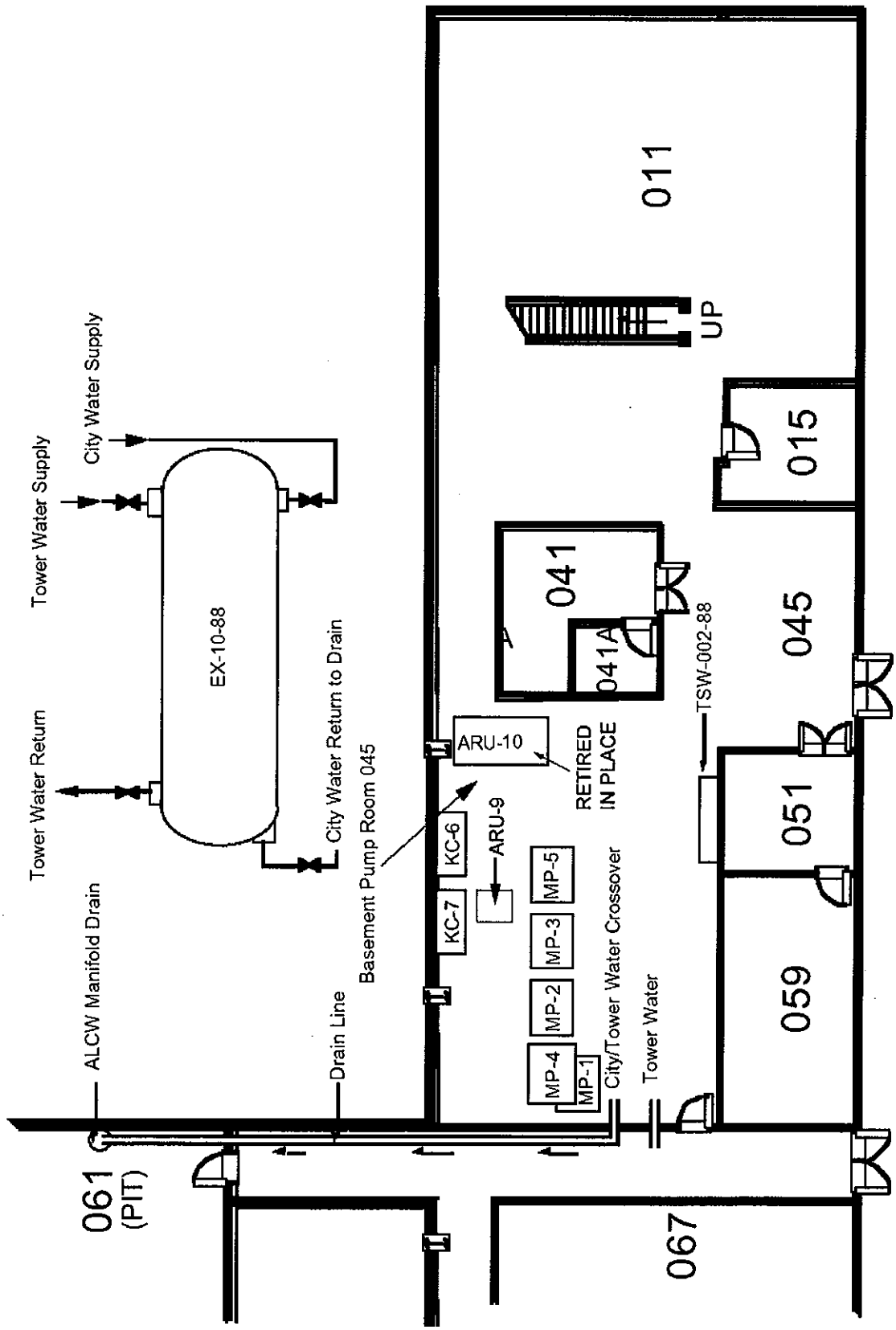
SPECIAL INSTRUCTIONS
None.

WORK STEPS—Power Restoration

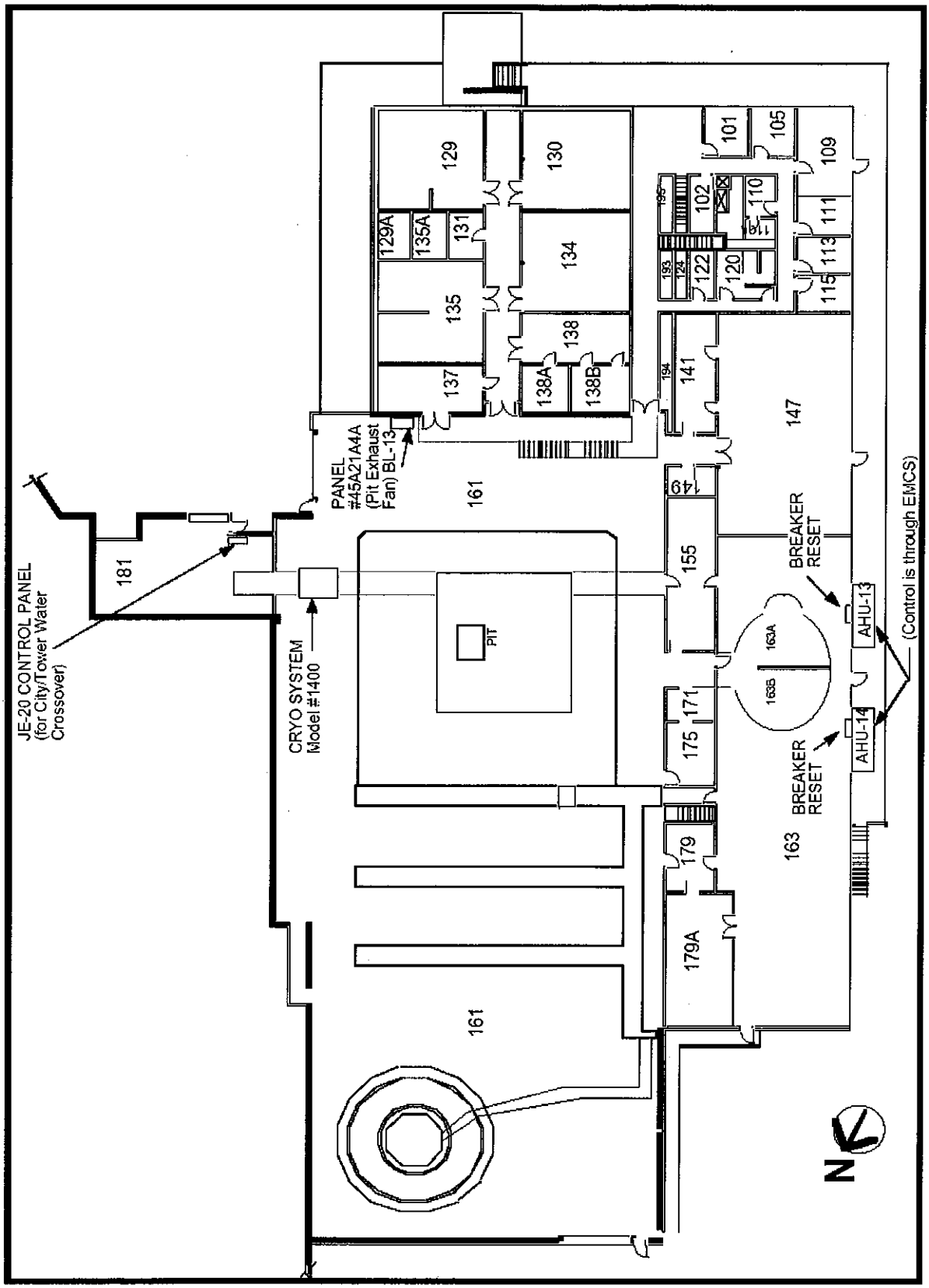
1. Check transfer switch TSW-002-88 in basement pump room (Room 045, west wall). Indicator lamps NORMAL AVAILABLE and NORMAL CONNECTED should be lit. If not, wait for them to come on.
2. Start tower water pump GP-55 **or** GP-56 in Room 181 equipment room under tower. Start **only** the VFD drive pump (GP-55), if it is available.
3. Check tower basin. If water level is low, add water through the fast-fill valve, located knee-high at the southwest corner of the tower basin.
4. Start ALCW pump GP-31 **or** GP-36 at cooling tower pad. Start **only one** pump.
5. In Tower Pump Room 181, check bypass panel CT-2-88 to verify that the cooling tower fan is in VARIABLE FREQUENCY MODE.
6. Start tower water pump GP-54 in HAND position.
7. On panel JE-20, press and hold the red ON button for the TOWER WATER/CITY WATER CROSSOVER control. This puts the basement equipment loop back on tower water.
8. After the basement loop is back on tower water, start GP-5 (hold in START button).
   - Watch pressure gauge for GP-5 while still holding finger on start button to GP-5.
   - After needle on pressure gauge stops going up secure GP-54 to OFF position.
   - Hold button to GP-5 for approximately 2 minutes until the pump gets up to full speed and the flow switch engages. This evaluation is because GP-54 is larger than and overpowers GP-5.
9. Turn ON control switches for LCW pumps GP-11 and GP-12, at panel located to the left of the MCC.
10. Turn OFF control switch for GP-13.
11. START GP-11 and GP-12. Hold in the start buttons until the flow switches make contact. (Start buttons are adjacent to the pumps.)
12. After GP-11 and GP-12 are up to speed, turn control switch for GP-13 to STANDBY.
13. Press and release RESET button at bottom of LCW control panel. This resets the alarm in the control room.
14. Verify that GP-9-88 and ARU-9-88 are running. (They are EMCS-controlled and should start automatically.) They are located in Room 045 in the basement.
15. Start air compressor KC-6-88 or KC-7-88. Secure city water (CW) supply and drain valves on EX-10-88 (behind KC-6-88), and open tower water (TRW) supply and return valves.
16. Verify that BR-2 and BR-3 are operating. (The heating system is EMCS-controlled and should resumeoperation automatically.)
17. Check that AHU-13 and AHU-14 are running. (Located on balcony outside Control Room 163A.) Control panels are located on west wall behind control room panel electronics
18. Reset Pit Exhaust Fan BL-13 back to medium speed. (Control panel is on south wall of hibay to left of laser lab door.)

RESPONSIBILITIES AND CONTROLS
Provide signature lines as follows:

Rev. No.	SME/Title	Approved/Title	Date	Effective Date
2	James Murphy Jim Murphy Immediate Service Supervisor	Ken Fletcher Ken Fletcher Operations Department Head	2/23/09	2/23/09



Building 88 Basement



Building 88 First Floor