

POWER II
SAFE WORK PROCEDURE

NORMAL FREEZE PRECAUTIONS

ANYTIME THE WEATHER FORECAST INDICATES EXPECTED TEMPERATURES BETWEEN 32°F AND 26°F, THE FOLLOWING PRECAUTIONS SHOULD BE IMPLEMENTED:

- ___ 1. TURN ON STEAM TRACINGS. CHECK EACH FOR ADEQUATE FLOW.
 - (A) SOUTH SIDE HRU-1
 - (B) SOUTH SIDE HRU-2
 - (C) TWO UNDER PIPERACK OUTSIDE C/R BUILDING (ONE NEAR NE CORNER OF BUILDING, ONE AT POTABLE WATER TRANSMITTER).
- ___ 2. ESTABLISH SOME FLOW THROUGH SEVERAL FAUCETS OR OTHER POTABLE WATER OUTLETS IN CONTROL-OFFICE BUILDING.
- ___ 3. BLOCK OFF AND DRAIN CONDENSATE TUBING LINE TO BATTERY-ROOM.
- ___ 4. INSURE ADEQUATE FLOW THROUGH SAMPLE LINE TO CONDENSATE CONDUCTIVITY CELL.
- ___ 5. ESTABLISH SOME FLOW THROUGH 3/8" TUBING LINES FROM PROCESS WATER DEAD-ENDS (NEAR EACH SPRAY-WATER CONTROL STATION).
- ___ 6. BLOCK IN AND DRAIN CONDENSATE LINES TO SPRAY-WATER CONTROLLERS.
- ___ 7. ESTABLISH SOME FLOW THROUGH PROCESS WATER SERVICE LINES ON BOTH SIDES AND TOP OF HRU'S AND SOUTH OF EACH COMBUSTOR.
- ___ 8. ESTABLISH SOME FLOW THROUGH HOSE CONNECTIONS ON CONDENSATE LINES TO CHEMICAL MIX TANKS.
- ___ 9. CLOSE BLOCK VALVES ON COOLING WATER SUPPLY AND RETURN LINES (OVERHEAD NEAR SW CORNER OF EACH HRU)-DRAIN SECTIONS OF LINES OVERHEAD IN NORTH-SOUTH PIPE RACK.
- ___ 10. ESTABLISH FLOW THROUGH PROCESS WATER SERVICE LINES EAST OF EACH GENERATOR AND ONE NEAR C.T. PUMPS.

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- ___11. ESTABLISH FLOW THROUGH DRAINS ON BOTH SPRINKLER SYSTEMS.
- ___12. ESTABLISH FLOW THROUGH HOSE CONNECTIONS ON DELUGE GUNS (5).
- ___13. ESTABLISH SOME FLOW THROUGH HOSE CONNECTION NEAR ARU FLASH-TANK LEVEL CONTROLLER.
- ___14. ESTABLISH SOME FLOW THROUGH SERVICE HOSE ON NORTH SIDE C.T. STAIRS.
- ___15. ESTABLISH FLOW THROUGH DRAINS (4) ON POTABLE WATER MAKE-UP LINE.
- ___16. ESTABLISH FLOW THROUGH 3/8" TUBING FROM POTABLE WATER PUMP DISCHARGE LINE TO TOP OF STORAGE TANK.
- ___17. BLOCK OFF AND DRAIN COOLING WATER FLUSH LINE TO CAUSTIC PUMPS.
- ___18. INSURE CAUSTIC TANK HEATERS ARE ON AND FUNCTIONING.
- ___19. CRACK DRAIN VALVES ON AIR RECEIVER AND COOLER.
- ___20. BLOCK OFF PROCESS WATER LINE TO WAREHOUSE AND ESTABLISH SOME FLOW THROUGH DRAIN ON UPSTREAM SIDE. DRAIN SERVICE HOSE CONNECTIONS.
- ___21. ESTABLISH SOME FLOW THROUGH FAUCETS IN WAREHOUSE REST-ROOMS.

HARD FREEZE PRECAUTIONS

THE FOLLOWING ITEMS WILL APPLY WHEN TEMPERATURES ARE FORECAST BELOW 26°F OR FOR THOSE PERIODS WHEN TEMPERATURES ARE EXPECTED TO REMAIN BELOW FREEZING FOR OVER 12 HOURS:

- ___1. ESTABLISH FLOW THROUGH CONDENSATE MAKE-UP LINES TO AWC'S.
- ___2. ESTABLISH FLOW THROUGH DRAINS ON AWC RECIRCULATION PUMPS.
- ___3. CLOSE SUCTION VALVES TO AWC RETURN PUMPS AND OPEN DRAINS BEFORE EACH PUMP.

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- ___ 4. DRAIN CHILLED WATER LINES TO AND FROM ARU'S.
- ___ 5. CLOSE SUCTION VALVES TO ARU CONDENSATE PUMPS, REMOVE PLUGS AND DRAIN PUMPS.
- ___ 6. CLOSE MAIN BLOCK VALVE ON PROCESS SERVICE WATER LINE TO BLOCK (NEAR NE CORNER OF AWC-1A). DRAIN ALL LINES.
- ___ 7. ALTERNATE THE FOLLOWING PUMPS (EVERY 4 HOURS):
 - (A) C.T. PUMPS
 - (B) H.P.-BF PUMPS
 - (C) L.P.-BF PUMPS
- ___ 8. RUN SAND-FILTER PUMP; INSURE ADEQUATE FLOW TO FILTER.
- ___ 9. MAINTAIN SMALL AMOUNT OF FLOW THROUGH CATION LINE.
- ___ 10. WHEN NECESSARY TO COOL COOLING TOWER WATER, RUN SOUTH PUMP WITH FULL FLOW THROUGH 200 ARU'S. INSURE THAT 3/4" DRAINS TO BASIN FROM RETURN LINES ARE OPEN.

4/18/80:JML

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