

APPROVED BY:

DATE: 5/92

FILE: SOP31CTW.LOW

LOW LEVEL IN COOLING TOWER

OPERATOR'S NAME _____ DATE: _____

- ____ 1. VERIFY LOW LEVEL ALARM IN COOLING TOWER BY VISUALLY CHECKING LEVEL.
- ____ 2. IF LEVEL IS LOW, CHECK THE CONDITION OF ALL OTHER BASINS AND OBSERVE THE SABINE WATER MAKE UP VALVE AND ENSURE IT IS MAKING UP WATER AT A RATE TO CONTROL BASIN LEVEL. ADJUST THE LEVEL CONTROLLER TO INCREASE MAKEUP IF NECESSARY. KEEP LEAD OPERATOR INFORMED OF YOU ACTIONS AND CONDITION OF COOLING TOWER.
- ____ 3. ADJUST COOLING TOWER RETURN WATER TO ENSURE EQUAL HEAT DISTRIBUTION.
- ____ 4. IF LEVEL IN COOLING TOWER BASINS CONTINUES TO DECREASE, THEN ADDITIONAL WATER CAN BE ADDED FROM SEVERAL SOURCES DEPENDING ON OPERATING CONDITIONS.
 - A. BLOCK OFF ANY BLOW DOWN
 - B. SWITCH ANY WATER GOING TO THE CLEAN WATER DITCH TO THE BASINS.
 - C. USE LEVEL CONTROLLER BYPASS
 - D. IF LOW LEVEL IS IN #1, 2, OR 3 BASINS, RAISE LEVEL IN #4 TO INCREASE OVERFLOW.
 - E. USE WELL WATER MAKE AS ANOTHER SOURCE OF MAKEUP
 - F. TRIP SPRINKLER SYSTEM TO COOLING TOWER IN FIRE HOUSE.
- 5. KEEP YOUR OPERATOR AND LEAD OPERATOR INFORMED OF COOLING TOWER BASIN LEVELS AND OF ALL YOU ACTIONS TO CONTROL THE LEVEL. LOSS OF COOLING TOWER WATER TO THE UNITS IS A CRITICAL SITUATION.
- ____ 6. SEVERAL THINGS CAN CAUSE A LOW LEVEL IN THE COOLING TOWER, BUT WE HAVE SEVERAL SAFE GUARDS TO KEEP US INFORMED.
 - A. LOW AND HIGH LEVEL ALARMS
 - B. AMP METERS ON ALL PUMPS WITH DEVIATION ALARMS IF THE AMPS DROP BELOW THE RED LINE SET POINT.
 - C. CHECK VALVES ON PUMP DISCHARGE.
 - D. SEVERAL SOURCES OF MAKE-UP WATER
 - E. MEANS OF CROSS CONNECTING COOLING TOWER BASINS.

SL 010608

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No. 91-1145