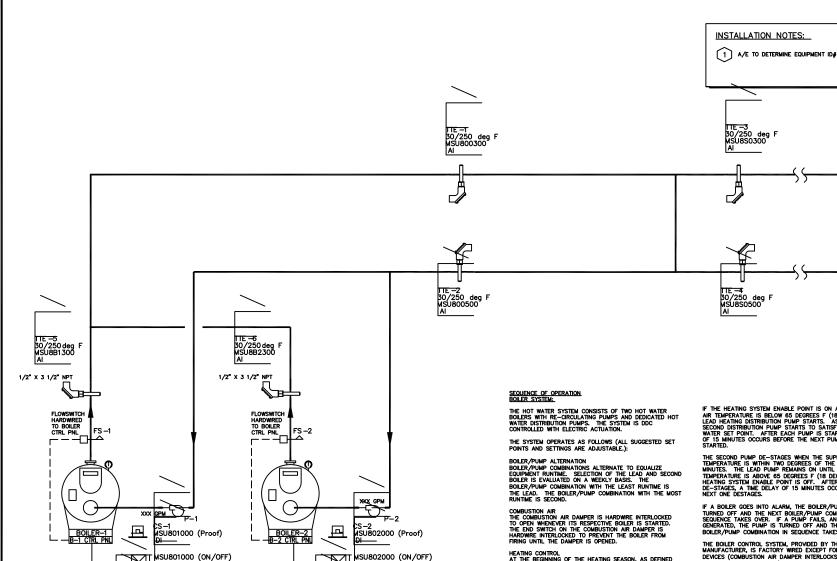
m

PUMPS

WITH

DETAIL NO. XXXXXX—XX





DO

#SU8B2000 (ON/OFF)

MSU8B2000 (PROOF)

MSU8B20A0

DO

<del>MSU8B</del>1000 (ON/OFF)

MSU8B1000 (PROOF)

MSU8B10A0

HEATING CONTECL INE DIAMENT IS OFFICED.

AT THE BEGINNING OF THE HEATING SEASON, AS DEFINED BY THE HEATING SYSTEM ENABLE POINT BEING ENERGIZED (MANUALLY BY THE OPERATOR OR BY PROGRAM FUNCTION (LE., TIME—OF—DAY)), THE BOILERS AND THEN ENOUGH AND CORROSION PROBLEMS, THE BOILERS AND SHOCK AND CORROSION PROBLEMS, THE BOILERS RUN CONTINUOUSLY DURING THE HEATING SEASON MAINTAINING THE MINIMUM REQUIRED WHAT EXPERTINE PROBLEMS THE BEFORE THE BEFORE THE BOILERS THE MINIMUM SEASON CHAIN THE BOILER STATED TO ALLOW THE BOILER TO SEASON MAINTAINING THE MINIMUM SEASON (MEATINE TO THE MEATINE TO SEASON MAINTAINING THE MINIMUM SEASON (MEATINE TO THE MEATINE THE PRESENCE THE BEFORE THE BEFO ENABLE POINT IS DE-ENERGIZED), THE BOILERS, RE-CIRCULATING PUMPS AND DISTRIBUTION PUMPS ARE TURNED OFF.

IF THE HEATING SYSTEM ENABLE POINT IS ON AND THE OUTDOOR AIR TEMPERATURE IS BELOW 65 DEGREES F (16 DEGREES C), THE LEAD HEATING DISTRIBUTION PUMP STARTS. AS NECESSARY, THE SECOND DISTRIBUTION PUMP STARTS TO SATISTY THE SUPPLY WATER SET POINT. AFTER EACH PUMP IS STARTED, A TIME OELAY OF 15 MINUTES OCCURS BEFORE THE NEXT PUMP CAN BE STARTED.

THE SECOND PUMP DE-STAGES WHEN THE SUPPLY WATER TEMPERATURE IS WITHIN TWO DEGREES OF THE SET POINT FOR 30 MINUTES. THE LEAD PUMP REMAINS ON UNTIL THE OUTDOOR AIR TEMPERATURE IS ABOVE 65 DEGREES F (16 DEGREES C) OR THE HEATING SYSTEM ENABLE POINT IS OFF. AFTER EACH PUMP DE-STAGES, A TIME DELAY OF 15 MINUTES OCCURS BEFORE THE NEXT ONE DESTAGES.

IF A BOILER GOES INTO ALARM, THE BOILER/PUMP COMBINATION IS TURNED OFF AND THE NEXT BOILER/PUMP COMBINATION IN SEQUENCE TAKES OVER. IF A PUMP FALS, AM ALARM IS GENERATED, THE PUMP IS TURNED OFF AND THE NEXT BOILER/PUMP COMBINATION IN SEQUENCE TAKES OVER.

THE BOILER CONTROL SYSTEM, PROVIDED BY THE BOILER MANUFACTURER, IS FACTORY WIRED EXCEPT FOR FIELD INSTALLED DEVICES (COMBUSTION AIR DAMPER INTERLOCKS, FLOW SWITCHES, LOW WATER CUI OFF, ETC.). FLAME SAFEGUARD CONTROLS ARE INCLUDED WITH THE BOILER.

THE DDC SYSTEM USES CURRENT SWITCHES TO CONFIRM THE PUMPS ARE IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM IF STATUS DEVIATES FROM DDC START/STOP CONTROL.

THE DDC SYSTEM MONITORS THE BOILER CONTROLS FOR A COMMON ALARM CONDITION (i.e. low water cut off, flame failure, etc.).

THE DDC SYSTEM GENERATES AN ALARM WHEN THE WATER TEMPERATURE IS OUTSIDE THE MINIMUM OR MAXIMUMS AS REQUIRED BY THE BOILER MANUFACTURER (I.E. DIFFERENTIAL TEMPERATURE TOO LARGE OR TOO SMALL, RETURN OR SUPPLY TEMPERATURE TOO LOW, ETC.).

ALARMING NORMAL • BOILER SUPPLY WATER TEMPERATURE

ENHANCED 24/7
• PUMP FAILURE

BOILER FAILURE
 COMMON SUPPLY WATER TEMPERATURE

BOILER SYSTEM CONTROL DIAGRAM