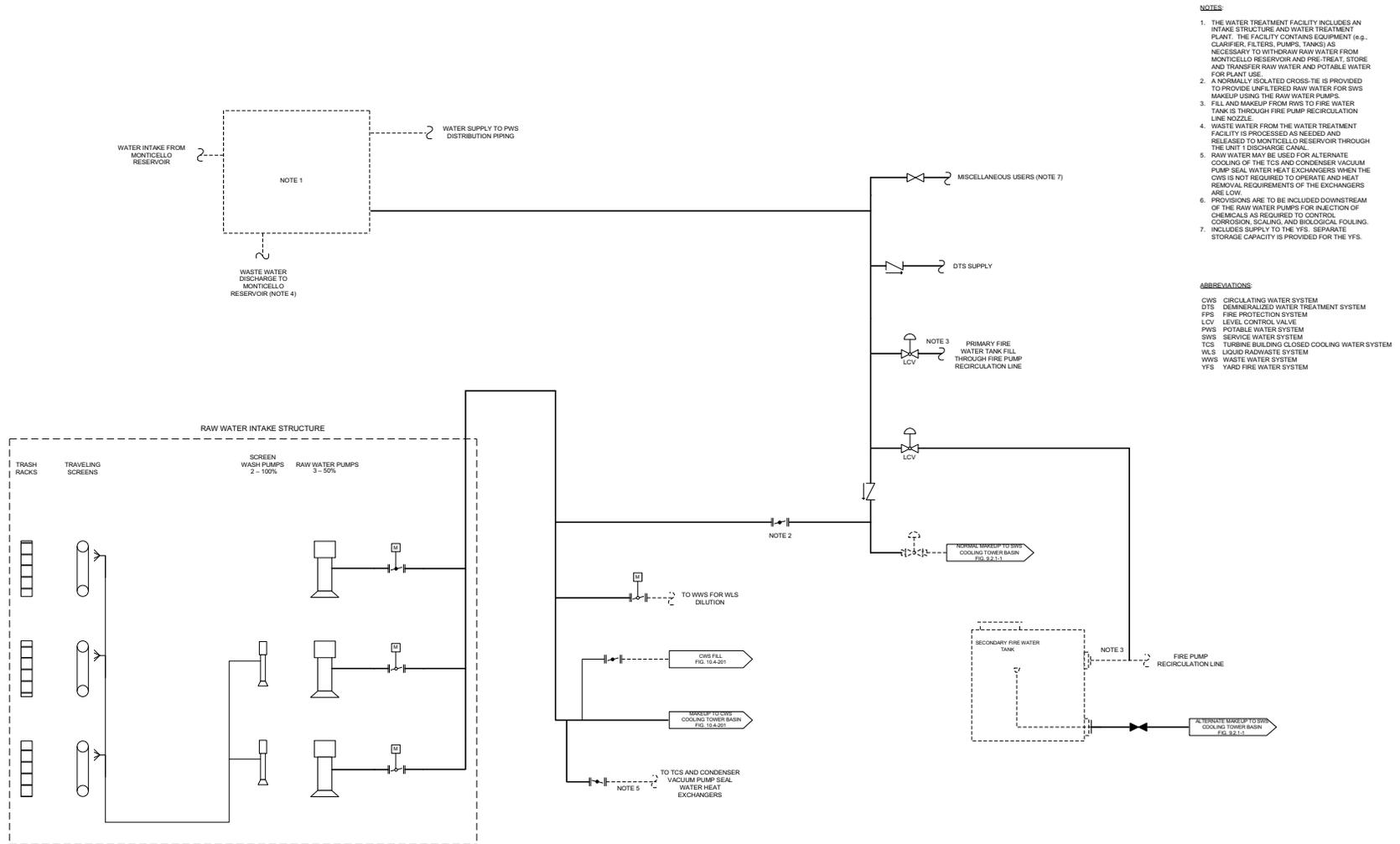


# V. C. Summer Nuclear Station, Units 2 and 3 COL Application Part 2, FSAR



**NOTES**

1. THE WATER TREATMENT FACILITY INCLUDES AN INTAKE STRUCTURE AND WATER TREATMENT PLANT. THE FACILITY CONTAINS EQUIPMENT (e.g., CLARIFIER, FILTERS, PUMPS, TANKS) AS NECESSARY TO WITHDRAW RAW WATER FROM MONTICELLO RESERVOIR AND PRE-TREAT, STORE AND TRANSFER RAW WATER AND POTABLE WATER FOR PLANT USE.
2. A NORMALLY ISOLATED CROSS-TIE IS PROVIDED TO PROVIDE UNFILTERED RAW WATER FOR SWP MAKEUP USING THE RAW WATER PUMPS.
3. FILL AND MAKEUP FROM RWS TO FIRE WATER TANK IS THROUGH FIRE PUMP RECIRCULATION LINE NOZZLE.
4. WASTE WATER FROM THE WATER TREATMENT FACILITY IS PROCESSED AS NEEDED AND RELEASED TO MONTICELLO RESERVOIR THROUGH THE UNIT 1 DISCHARGE CANAL.
5. RAW WATER MAY BE USED FOR ALTERNATE COOLING OF THE TCS AND CONDENSER VACUUM PUMP SEAL WATER HEAT EXCHANGERS WHEN THE CWS IS NOT REQUIRED TO OPERATE AND HEAT REMOVAL REQUIREMENTS OF THE EXCHANGERS ARE LOW.
6. PROVISIONS ARE TO BE INCLUDED DOWNSTREAM OF THE RAW WATER PUMPS FOR INJECTION OF CHEMICALS AS REQUIRED TO CONTROL CORROSION, SCALING, AND BIOLOGICAL FOULING.
7. INCLUDES SUPPLY TO THE YFS. SEPARATE STORAGE CAPACITY IS PROVIDED FOR THE YFS.

**ABBREVIATIONS:**

- CWS - CIRCULATING WATER SYSTEM
- DTS - DEMINERALIZED WATER TREATMENT SYSTEM
- FPS - FIRE PROTECTION SYSTEM
- LCV - LEVEL CONTROL VALVE
- PWS - POTABLE WATER SYSTEM
- SWP - SERVICE WATER SYSTEM
- TCS - TURBINE BUILDING CLOSED COOLING WATER SYSTEM
- WLS - LIQUID WASTEWATER SYSTEM
- WWS - WASTE WATER SYSTEM
- YFS - YARD FIRE WATER SYSTEM

**Figure 9.2-201  
Raw Water System Flow Diagram**