

ATTACHMENT H

| Process Wastewater Characterization | | | | | |
|--|------------------|---------------------------------|---------------------------------|------------------------------|--------------------------------|
| | | Cooling Twr Blowdown | Evap Cooler Blowdown | RO System Rejects | Combined Wastewater |
| General | Units | | | | |
| pH | | 7 - 8 | 7 - 8 | 7 - 8 | 7 - 8 |
| Total Suspended Solids | ppm | | | | |
| Total Dissolved Solids | ppm | 5000 | 3000 | 6000 | 5200 |
| Ion Chemistry, mg/l as CaCO₃ | | | | | |
| Total Alkalinity | | 500 | 350 | 700 | 500 |
| Hardness | | 620 | 390 | 780 | 650 |
| Calcium | Ca | 300 | 200 | 380 | 320 |
| Magnesium | Mg | 320 | 200 | 400 | 350 |
| Sodium | Na | 3000 | 2000 | 3700 | 3150 |
| Potassium | K | 16 | 10 | 20 | 17 |
| Bicarbonate | HCO ₃ | 550 | 350 | 700 | 590 |
| Carbonate | CO ₃ | | | | |
| Sulfate | SO ₄ | 800 | 800 | 3000 | 1000 |
| Chloride | Cl | 450 | 350 | 700 | 550 |
| Nitrate-Nitrite | NO ₃ | 7 | 4 | 8 | 7 |
| Chemicals, mg/l as Such | | | | | |
| Arsenic | As | .038 | .024 | .048 | .041 |
| Boron | B | 10 | 6 | 12 | 11 |
| Cadmium | Cd | | | | |
| Chromium, total | Cr | | | | |
| Copper | Cu | | | | |
| Fluoride | F | 2 | 2 | 2 | 2 |
| Iron | Fe | | | | |
| Lead | Pb | | | | |
| Manganese | Mn | | | | |
| Mercury | Hg | | | | |
| Nickel | Ni | | | | |
| Phosphorus, total | P | | | | |
| Selenium | Se | | | | |
| Silica | SiO ₂ | 135 | 85 | 170 | 145 |
| Silver | Ag | | | | |
| Vanadium | V | | | | |
| Zinc | Zn | | | | |

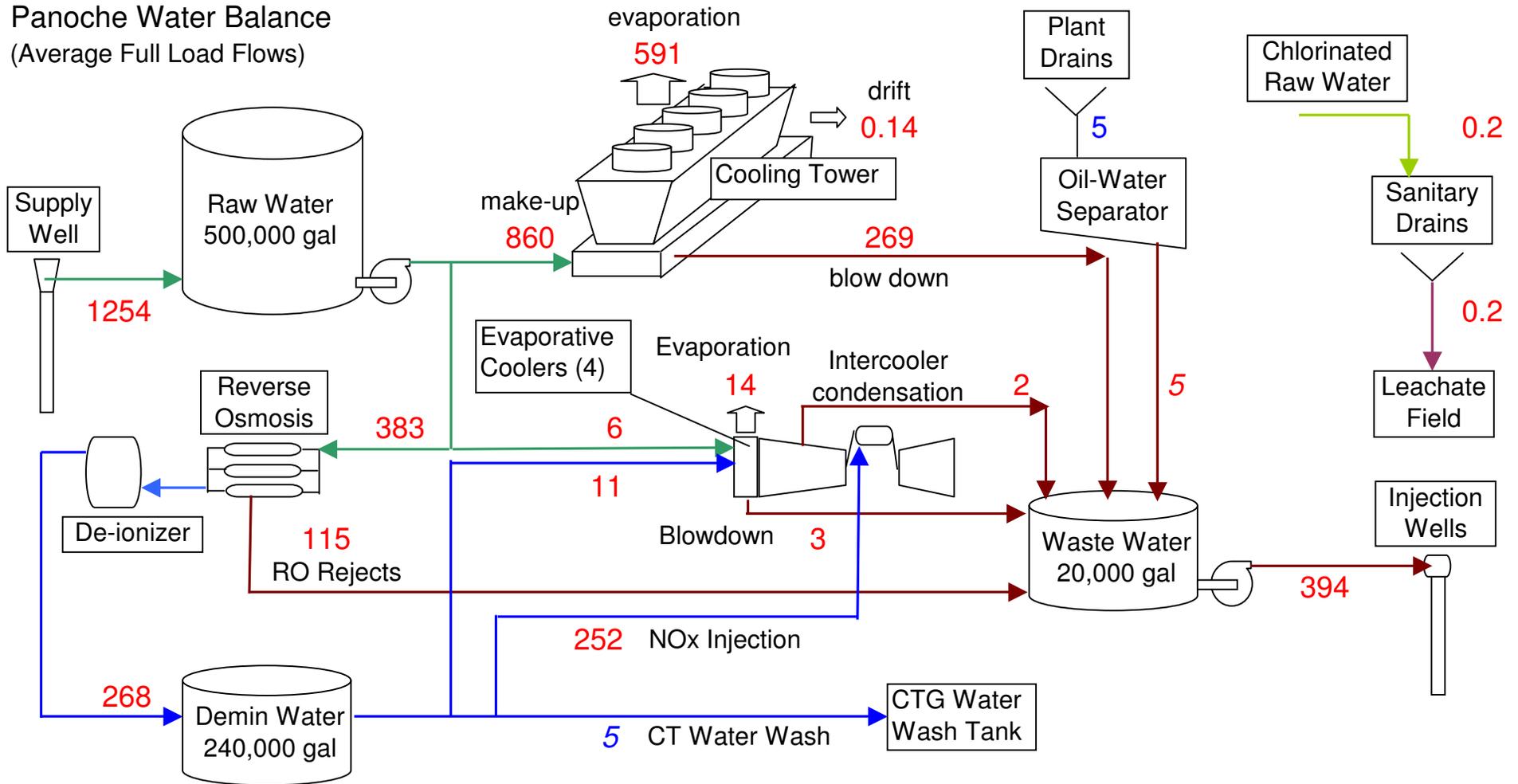
WATER BALANCE

Panoche Water Balance Summary

| Flow Stream | Maximum Daily 1000 gal/day | Average Daily 1000 gal/day | Average Annual acre-ft/yr |
|-----------------------------------|----------------------------------|----------------------------------|---------------------------------|
| Deep Well | | | |
| Cooling Tower Makeup | 1,646 | 1,238 | 792 |
| Demineralizer System | 590 | 552 | 353 |
| Evap Cooler Makeup | 37 | 8 | 5 |
| Plant Service Water | 7 | 7 | 5 |
| Total | 2,280 | 1,805 | 1,154 |
| Waste Water Injection Well | | | |
| Cooling Tower Blowdown | 514 | 387 | 247 |
| RO System Rejects | 177 | 165 | 106 |
| Evap Cooler Blowdown | 19 | 4 | 3 |
| Plant Drains | 7 | 7 | 5 |
| Intercooler Condensation | 48 | 3 | 2 |
| Total | 765 | 567 | 362 |
| Potable Water Well | | | |
| Zero process use | 0.375 | 0.250 | 0.280 |

Note: Annual values based on 5000 hrs/year
 Evenly divided to each month
 This corresponds to a 57.1% capacity factor

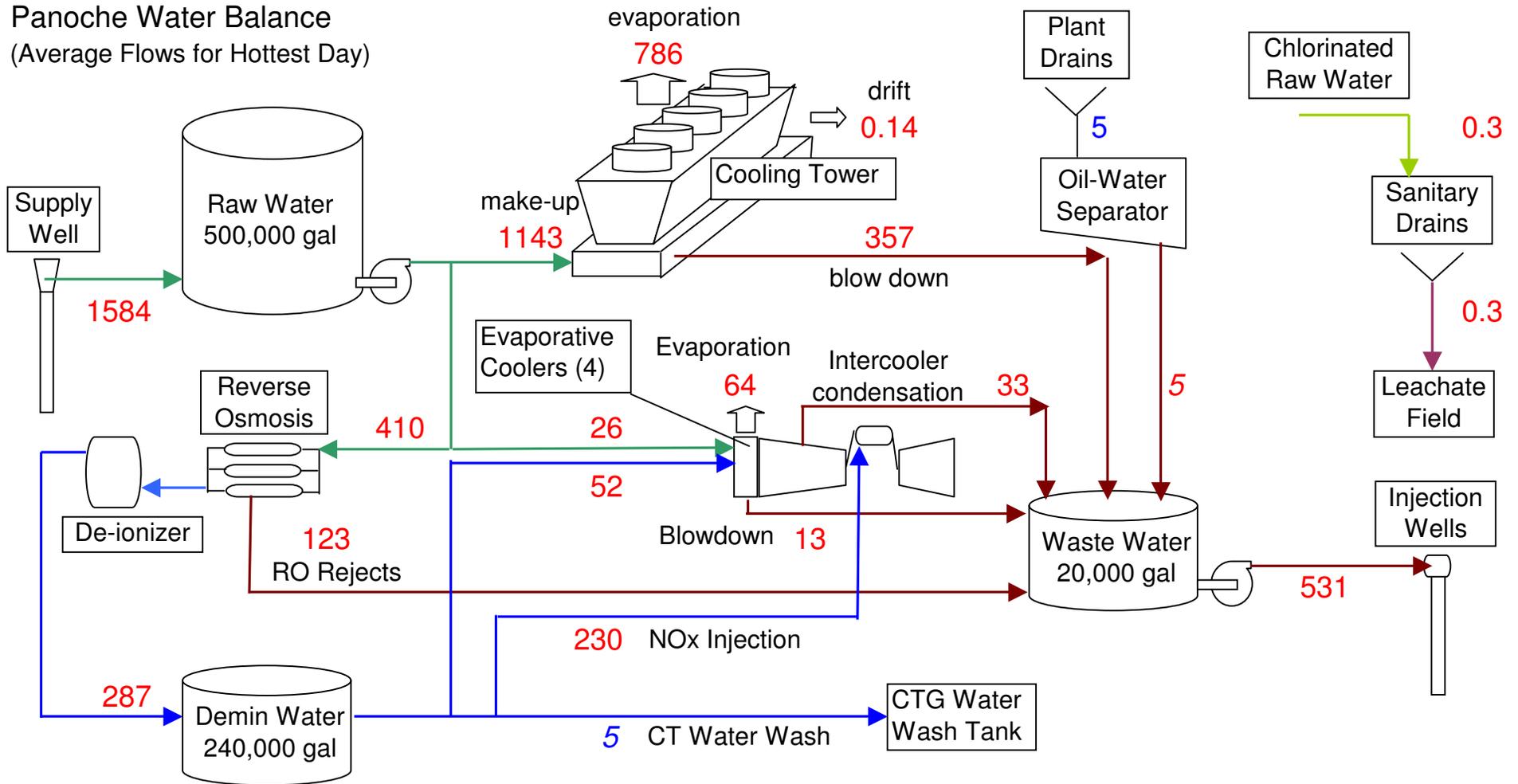
Panoche Water Balance (Average Full Load Flows)



NOTES:

- 1) All Flows are displayed in GPM
- 2) NOx Injection and cooling tower heat loads are from an average of GE performance estimates at the monthly average temperature for every month (equally weighted)
- 3) Reverse Osmosis water recovery rate is 70%
- 4) Evaporative Cooler cycles of concentration is 6.0
- 5) Evaporative Cooler makeup is raw water and demin water 67% Demin
- 6) Potable water flows are based on a use rate (gal/day/person) of 25 & 10 people on site

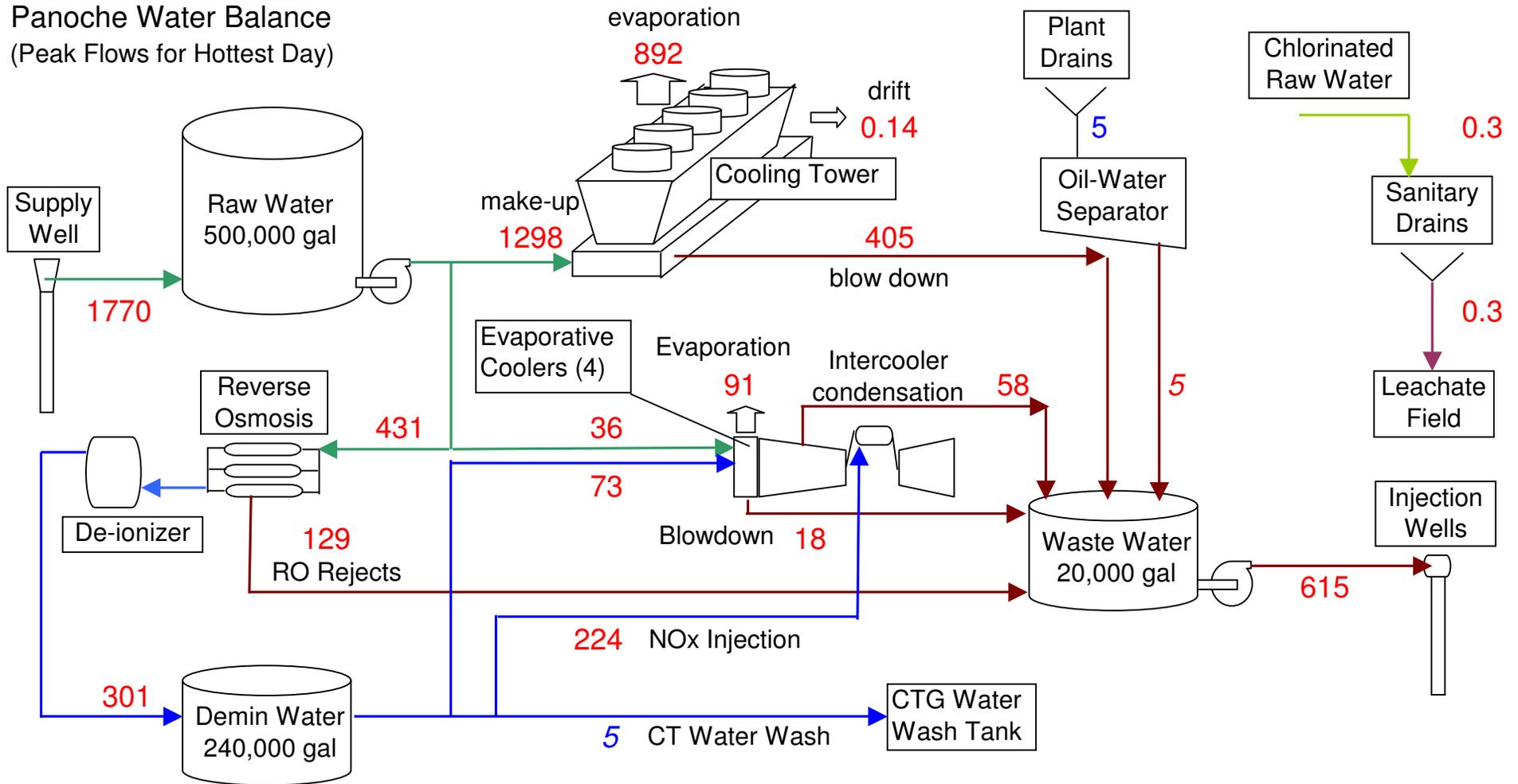
Panoche Water Balance
(Average Flows for Hottest Day)



NOTES:

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Panoche Water Balance
(Peak Flows for Hottest Day)



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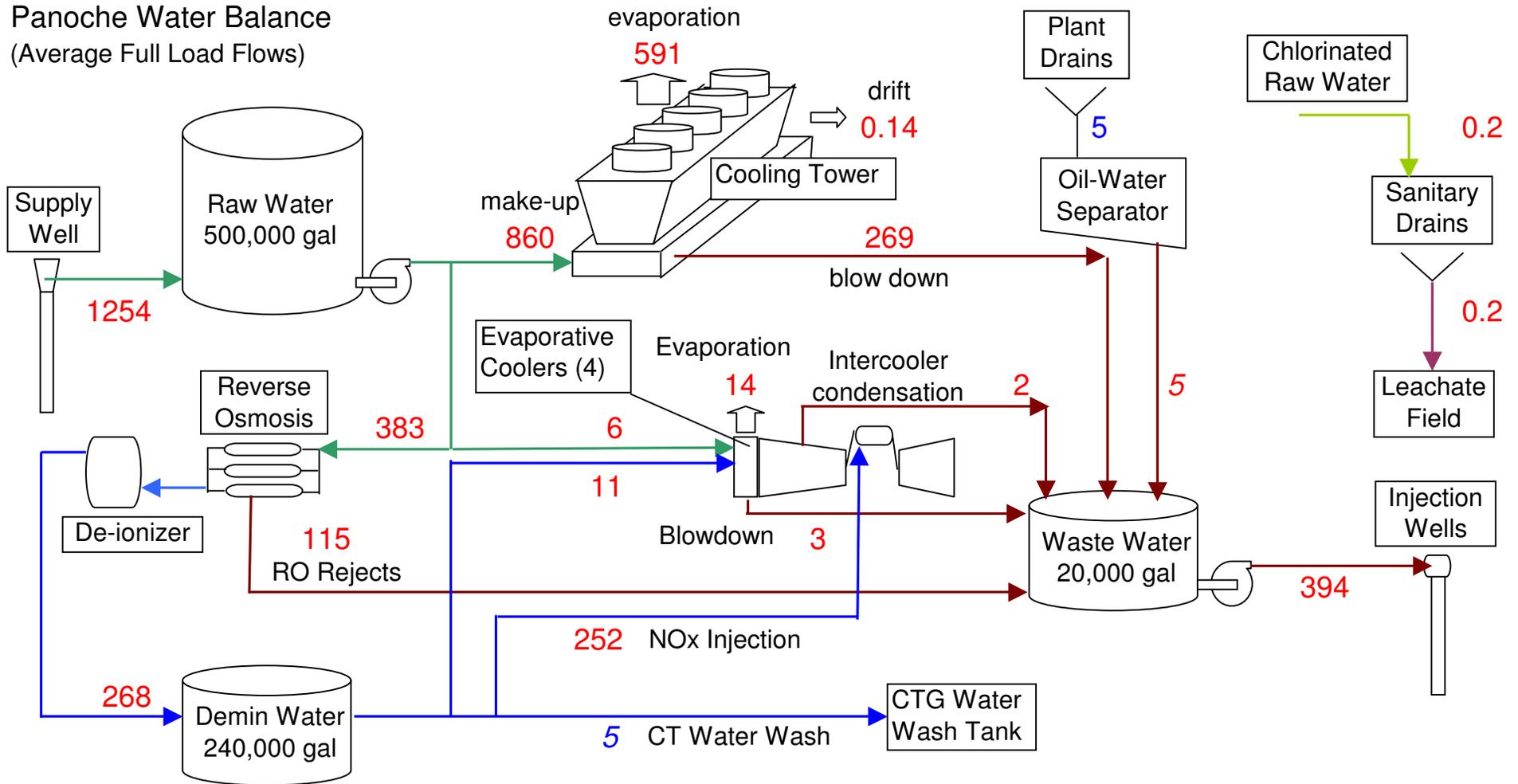
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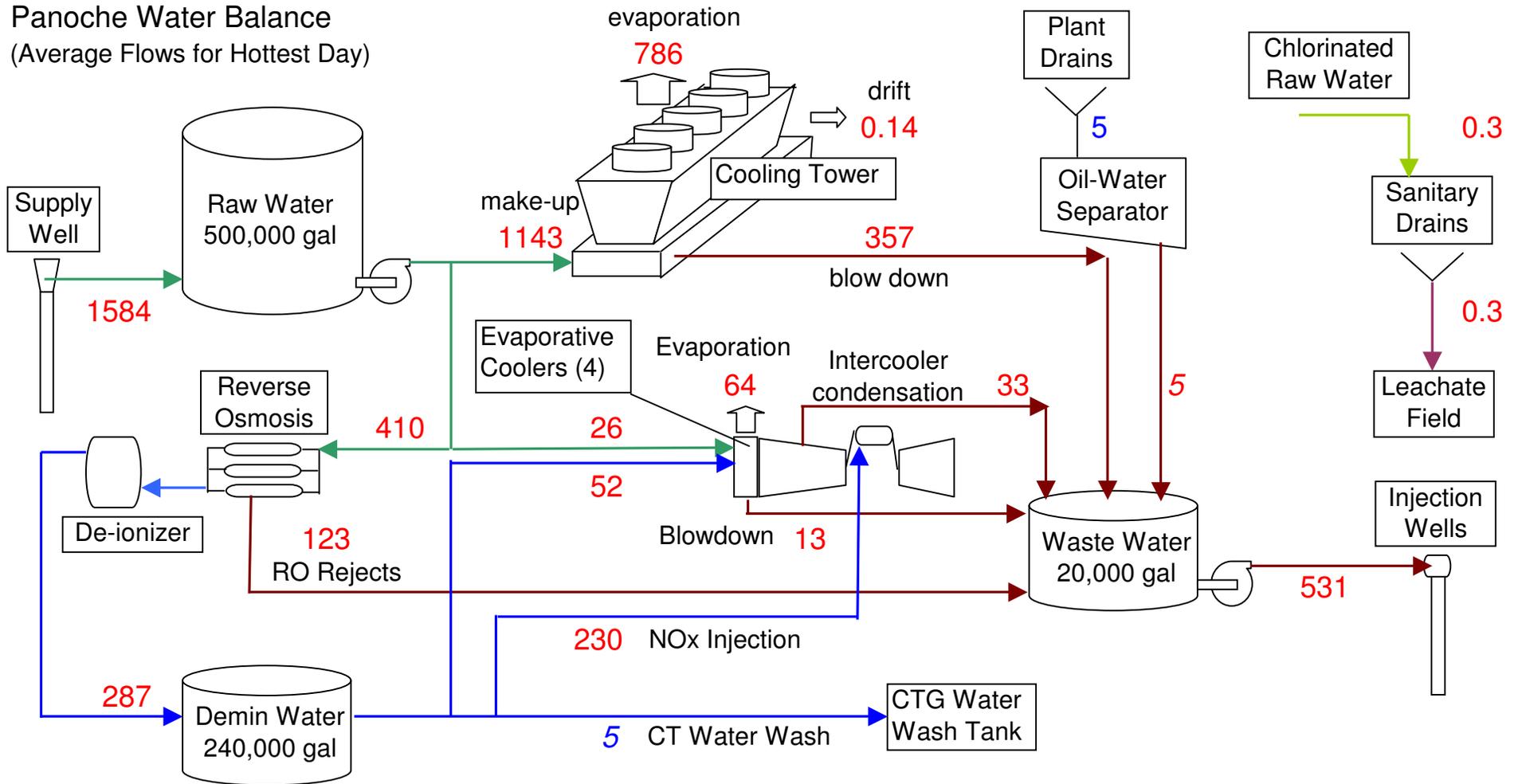
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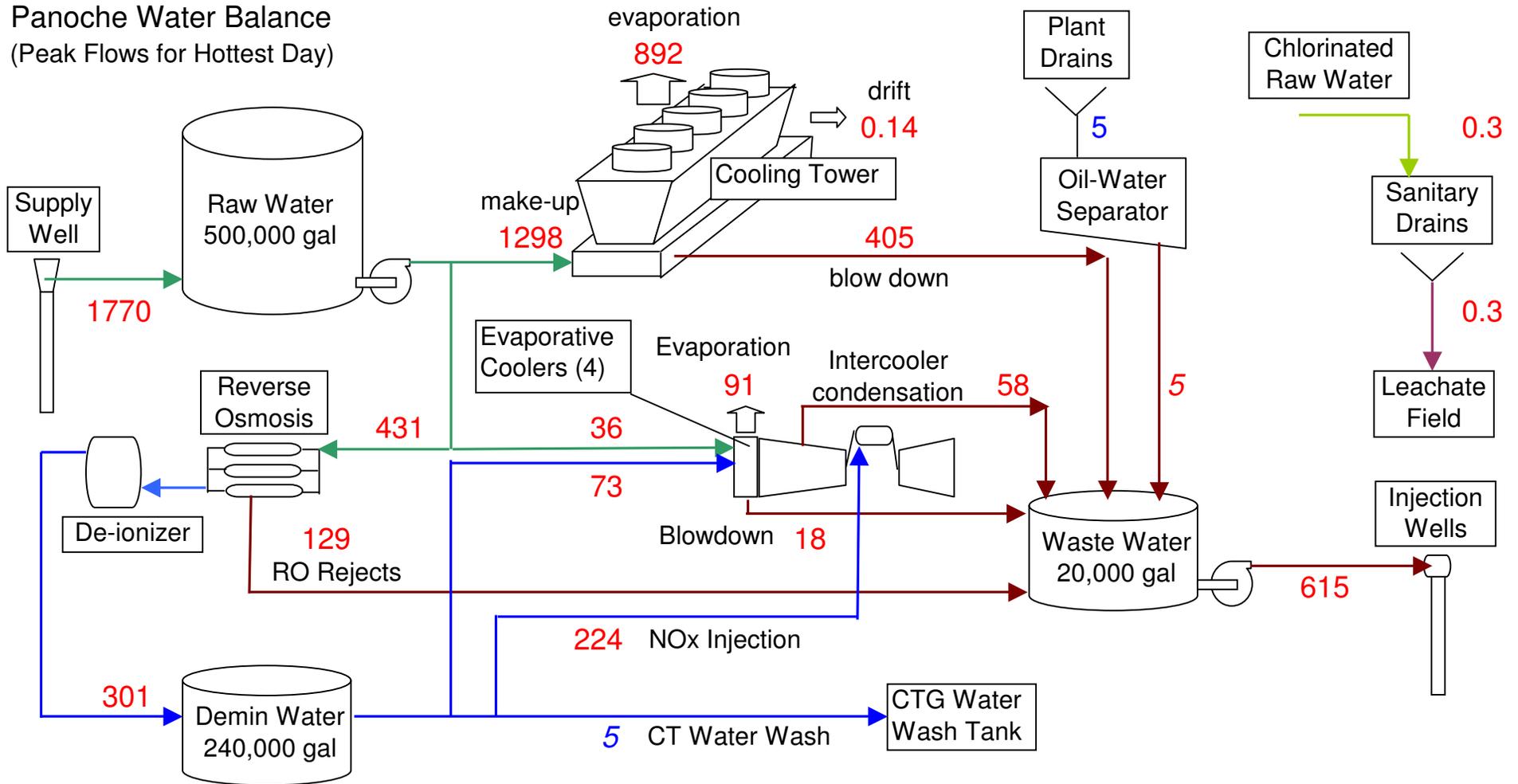
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