

Upper/Lower Parameters

Process Safety Information

MAXIMUM INTENDED INVENTORY

The WTP chlorination facility has a maximum intended inventory of ten one-ton containers (20,000 pounds) of chlorine.

WTP - SAFE UPPER AND LOWER LIMITS FOR TEMPERATURE, PRESSURE AND FLOWS

Chlorine Room / Storage Area:

Chlorine concentration at which alarms will respond:

- Emergency response condition

1.0 ppm

Building temperature:

- Normal
- Minimum
- Maximum

70 °F

60 °F

104 °F

Chlorine Gas pressure:

Ton containers

20 to 85 psi

Piping to vacuum regulator check valve:

- Normal
- Minimum
- Maximum
- Vacuum regulator

20 to 85 psi

20 psi

140 psi

-0.5 to -1.4 psi

Chlorinators:

- Gas flow minimum
- Gas flow maximum

250 lb/day

5,000 lb/day

Injector:

- Normal Vacuum (gauge readings)
- Dilution water pressure:
 - Normal
 - Minimum

24 in Hg

60 - 70 psi

40 psi

Emergency Exhaust:

Air Flow Maximum

5,000 scfm

Changeover Pressure:

- Normal

20 psi

EVALUATION OF THE CONSEQUENCES OF DEVIATIONS

The Process Hazard Analyses (PHAs) evaluate the potential consequences of operating deviations at the WTP chlorination system. The PHA information for this facility is located in Section 4.0.