

Daily Chlorine Usage

Date: 8/11/2009

24 HOUR TOTALS

Unit	Time	DURATION	Pump Feed Rate (GPM)	Feed ug/l	Chlorine (lbs/cycle)	REMARKS
1	0015	20 min.	0.150	540	3.510	
2	0040	20 min.	0.150	540	3.510	
3	0105	20 min.	0.200	450	4.680	3S CW Pump off @ 0240 hrs.
4	0130			0	0.000	4N & S CW Pumps remain off.

Unit	Time	DURATION	Pump Feed Rate (GPM)	Feed ug/l	Chlorine (lbs/cycle)	
1	0415	20 min.	0.150	540	3.510	
2	0440	20 min.	0.150	540	3.510	
3	0505	20 min.	0.100	225	2.340	
4	0530			0	0.000	

Unit	Time	DURATION	Pump Feed Rate (GPM)	Feed ug/l	Chlorine (lbs/cycle)	
1	0815	20 min.	0.150	540	3.510	
2	0840	20 min.	0.150	540	3.510	
3	0905	20 min.	0.100	225	2.340	
4	0930			0	0.000	

Unit	Time	DURATION	Pump Feed Rate (GPM)	Feed ug/l	Chlorine (lbs/cycle)	
1	1215	20 min.	0.150	540	3.510	
2	1240	20 min.	0.150	540	3.510	
3	1305	20 min.	0.100	225	2.340	
4	1330			0	0.000	

Unit	Time	DURATION	Pump Feed Rate (GPM)	Feed ug/l	Chlorine (lbs/cycle)	
1	1615	20 min.	0.150	540	3.510	
2	1640	20 min.	0.150	540	3.510	
3	1705	20 min.	0.100	225	2.340	
4	1730			0	0.000	

Unit	Time	DURATION	Pump Feed Rate (GPM)	Feed ug/l	Chlorine (lbs/cycle)	Daily Total lbs of Chlorine	Condenser half - flow rate.
1	2015	20 min.	0.150	540	3.510	21.06	39,000 (gpm)
2	2040	20 min.	0.150	540	3.510	21.06	39,000 (gpm)
3	2105	20 min.	0.100	225	2.340	16.38	62,300 (gpm)
4	2130			0	0.000	0.00	68,400 (gpm)

Pump Feed Rate (GPM) is calculated by timing out a known volumes at the Chlorine injection pump.

Feed (ug/l) = Pump Feed Rate (gpm) * 1.17# per gallon Cl₂ * 1,000,000,000 / the C.W. flow rate * 8.34#

Chlorine Lbs. per Cycle = Pump Feed Rate (gpm) * 1.17#/gal. * 20 minutes.

Daily Total Lbs. of Chlorine = Chlorine Lbs. per cycle * the number of cycles in a 24 hour period for that unit