NEBRASKA
Good Life. Great Resources.
DEPT. OF WATER, ENERGY, AND ENVIRONMENT

Title 178 NAC 2 (Sanitizer ONLY Submittal)

Existing Swimming Pool Data and Check Sheet

Please fill out a separate check sheet for each pool

Name of Pool:			
Address of Pool:	Street:		
	City:	State: NE	Zip:
Telephone:		Email:	

Owner of Pool:			
Address of Owner:	Street:		
	City:	State:	Zip:
Telephone:		Email:	

Name of Engineering Firm/Architectural Firm/Submitting Entity:			
Address:	Street:		
	City:	State:	Zip:
Telephone:		Email:	
Engineer's/Architect's Seal and Signature, if applicable:			
Estimated Pool Cost:		$	
Initial Review Fee [$100.00 + 0.5% of Estimated Pool Cost]		$	

Pool Type			
☐ Indoor		☐ Outdoor	
Type of Pool (Check One)			
☐ Standard Swimming Pool	☐ Spa	☐ Zero Depth Pool	☐ Wave Pool
☐ Spray Park	☐ Wading Pool	☐ Diving Pool	☐ Other

Pump/Pool Data			
Pump HP	**Pool Volume (gal.)**	**Recirculation rate in gallons per minute (gpm)**	**Turnover Time (hrs.)**

Disinfection and Chemical Application Equipment 005.13(B)			
Yes	**No**	**N/A**	
☐	☐	☐	Three sets of installation plans and manufacturer's specifications submitted?
☐	☐	☐	Is the disinfection system NSF approved?
Manufacturer:			Model #:
Chemical Used:			Type of Disinfection Equipment:
☐ Chlorine ☐ lbs/day or ☐ gals/day			☐ Liquid NaOCl
☐ Bromine ☐ lbs/day			☐ Erosion Feeder
☐ Other (specify)			☐ % Chlorine/Bromine
Yes	**No**	**N/A**	
☐	☐	☐	Does feeder have anti-siphon safeguards?
☐	☐	☐	Can the feeder supply disinfectant at a rate of 0.1 pound per day chlorine (or equivalent) per gallon per minute of recirculation flow? This equates to 8 parts per million.
Fill with calculated rate			Maximum concentration of disinfectant in the recirculation stream = mg/L. (See calculation examples below.)

Disinfection and Chemical Application Equipment 005.13(B) (continued)			
Yes	**No**	**N/A**	
☐	☐	☐	If hypochlorinators are used, will the feed be capable of being continuous under all conditions of pressure in the recirculation system?
☐	☐	☐	Will a test kit be provided that will be able to test applicable parameters indicated in 178 NAC 2 005.13(B)(v)?

Calculation Equation and Examples

Example 1: Erosion Feeder

$$D = C \times \frac{1{,}000{,}000}{8.34 \times Q \times 60} \quad \text{or} \quad D = C \times \frac{1998.4}{Q}$$

D = Disinfectant concentration at Q in milligrams per liter (mg/L)
C = Certified NSF 50 or equal available disinfectant in (lbs/hr)
Q = Recirculation rate in gallons per minute (gpm)

Example 1: C = 0.45 lbs/hr, Q = 120 gpm

$$D = 0.45 \times \frac{1998.4}{120} = 7.49\ mg/L$$

D equals 7.49 mg/l, less than the required capability to supply 8 mg/L in the recirculation flow. The unit is not sized correctly per Title 178 NAC 2-005.13(B)(ii) CAPACITY.

Example 2: Liquid Chlorine

$$D = C \times P \times \frac{1{,}000{,}000}{Q \times 60 \times 100} \text{ or } D = C \times P \times \frac{166.67}{Q}$$

D = Disinfectant concentration at Q on milligrams per liter (mg/L)
C = Certified NSF 50 or equal available disinfectant in (gal/hr)
P = Percent disinfectant (in percent)
Q = Recirculation rate in gallons per minute (gpm)

Example 2: C = 0.5 gal/hr, P = 12.5% liquid chlorine, Q = 85 gpm,

$$D = 0.5 \times 12.5 \times \frac{166.67}{85} = 12.25\ mg/L$$

**D equals 12.25 mg/l, greater than the required capability to supply 8 mg/L in the recirculation flow. This unit is sized correctly per Title 178 NAC 2-005.13(B)(ii) CAPACITY.