



Good Life. Great Resources.

DEPT. OF WATER, ENERGY, AND ENVIRONMENT

196 NAC-1 (Sanitizer ONLY Submittal)

Existing Swimming Pool Data and Check Sheet

Please fill out a separate form for each pool

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

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

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

Pool Type			
☐ Indoor	☐ Outdoor	Pool Type (Standard swimming pool, zero depth, spa, spray park, wading pool, etc.):	
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)			
Yes	No	N/A	
☐	☐	☐	One hard copy and one digital copy of the plans and 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 or gals/day	☐ Erosion Feeder	
☐ Other (specify)		☐ % Chlorine/Bromine	
Yes	No	N/A	
☐	☐	☐	Does feeder have anti-siphon safeguards and will disinfectant not feed when the recirculation water is not flowing?
☐	☐	☐	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)	

☐	☐	☐	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 196 NAC 1-005.13(C)(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

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

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 196 NAC 1-005.13(C)(ii) CAPACITY.

Example 2: Liquid Chlorine:

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

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,

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

**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 196 NAC 1-005.13(C)(ii) CAPACITY.