Stakeholder Preliminary Input Meeting – Chapter NR 811 Rule Revisions

Subchapter IV – Pumping Stations, Pumphouses, and Water Treatment Plant Buildings
Subchapter V – Pumping Equipment and Appurtenances
(s. NR 811.24 - 811.37, Wis. Adm. Code)
Hearing Logistics (Zoom)

Update your Participant name to include your full name:

1. Click Participants
2. Click your name. Click More>rename to update.

(1.) Click Name > More > Rename to include your full name.
Hearing Logistics (Zoom)

If you would like to submit a verbal comment:
1. Click “Participants”
2. Click “Raise Hand”
3. When your name is called, the Meeting Host will **unmute** you.
Hearing Logistics (Zoom)

4. You should receive a pop-up “The host would like you to unmute”: Click
5. When you’ve finished speaking, the Host will re-mute you
NR 811 Applicability

• Applies to new community water systems and improvements, extensions, or alterations to existing community water systems

• Chapter NR 108, Wis. Adm. Code, requires submission of plans and specifications to the department for reviewable projects

• Covers source water, pumping facilities, treatment, storage, and distribution

TODAY’S TOPIC: Subchapter IV – Pumping Stations, Pumphouses, and Water Treatment Plant Buildings & Subchapter V – Pumping Equipment and Appurtenances
Subchapter IV

Pumping Stations, Pumphouses, and Water Treatment Plant Buildings
Topic Areas for Input or Suggestions

1) Water system building design and construction requirements (s. NR 811.24 – 811.25, Wis. Adm. Code)

2) Pumping units and capacity requirements (s. NR 811.26, Wis. Adm. Code)
Department Identified Areas in Need of Revision

1) Water system building design and construction requirements
   • Clarify that building floor drains may not discharge to storm sewers (s. NR 811.25(1)(h), Wis. Adm. Code)

2) Pumping units and capacity requirements
   • None
3) Auxiliary power requirements (s. NR 811.27, Wis. Adm. Code)

4) Additional requirements (s. NR 811.28, Wis. Adm. Code)
3) Auxiliary power requirements
   • Eliminate maximum distance requirement for portable auxiliary power sources (s. NR 811.27(1)(c), Wis. Adm. Code)

4) Additional Requirements
   • Require all piping in contact with potable water is ANSI/NSF Std. 61 certified (s. NR 811.28(5)(b), Wis. Adm. Code)
   • Consider uses of schedule 80 PVC pipe for above grade discharge piping (s. NR 811.28(5)(b), Wis. Adm. Code)
Subchapter V

Pumping Equipment and Appurtenances
Topic Areas for Input or Suggestions

1. Pumping capacity requirements (s. NR 811.29, Wis. Adm. Code)

2. General pump, motor, and wiring installation requirements (s. NR 811.30, Wis. Adm. Code)

3. Vertical turbine and submersible pump installation requirements (s. NR 811.31 – 811.33, Wis. Adm. Code)
Department Identified Areas in Need of Revision

1. Pumping capacity requirements
   • Allow a minimum capacity of 1 gpm per living unit for small community water systems (s. NR 811.29, Wis. Adm. Code)

2. General pump, motor, and wiring installation requirements
   • None

3. Vertical turbine and submersible pump installation requirements
   • Add column pipe requirements for vertical turbine pumps similar to submersible pumps (s. NR 811.31, Wis. Adm. Code)
   • Require metering and controls for vertical turbine pump prelubrication lines (s. NR 811.32(2)(b), Wis. Adm. Code)
Topic Areas for Input or Suggestions

4. Pump variable output control devices installation requirements (s. NR 811.34, Wis. Adm. Code)

5. Pitless unit installation requirements (s. NR 811.35, Wis. Adm. Code)
Department Identified Areas in Need of Revision (Cont.)

4. Pump variable output control devices installation requirements
   - Remove protections for variable frequency drive (VFD) units which are no longer enforced (s. NR 811.34, Wis. Adm. Code)
   - Clarify VFD unit programing requirements to ensure circulation of storage vessels (s. NR 811.34(6)(e), Wis. Adm. Code)

5. Pitless unit installation requirements
   - Clarify the reasoning for check valve location requirements (s. NR 811.35(6), Wis. Adm. Code)
Topic Areas for Input or Suggestions

6. Well appurtenances and pump base construction requirements (s. NR 811.36, Wis. Adm. Code)

7. Pump discharge piping and appurtenances requirements (s. NR 811.37, Wis. Adm. Code)
6. Well appurtenances and pump base construction requirements
   • Clarify well vent code requirements for new pump bases and existing pump bases (s. NR 811.36(1)(a), Wis. Adm. Code)

7. Pump discharge piping and appurtenances requirements
   • Clarify code requirements for buried suction lines (s. NR 811.37(1), Wis. Adm. Code)
   • Clarify air-vacuum relief valve applicability and discharge piping material requirements (s. NR 811.37(5)(a), Wis. Adm. Code)
Department Identified Areas in Need of Revision (Cont.)

7. Pump discharge piping and appurtenances requirements (cont.)
   • Require a water service lateral in situations where it is necessary to obtain a representative finished water quality sample (s. NR 811.37(5)(b), Wis. Adm. Code)
   • Clarify chemical injection tap requirements for OTM water systems (s. NR 811.37(5)(g), Wis. Adm. Code)
CONNECT WITH US

McCrea Baker
(608) 279-8426
McCrea.Baker@wisconsin.gov

Ken Scherer
(715) 520-3981
Kenneth.Scherer@wisconsin.gov