



**NEPHROLOGY PROGRAM  
DEPARTMENT POLICIES AND PROCEDURES**

**Hemodialysis - Section 14 - Unit Specific - KU Neph 14-01  
Water Treatment System Start-up and Shutdown  
No.: 01392 (TOH Standardized Policy Number)**

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**ISSUED BY:**

Hemodialysis Clinical Practice Committee

**DATE OF APPROVAL:**

N/A

**APPROVED BY:**

Program Clinical Director & Division Head

**LAST REVIEW/REVISION DATE:**

2017/11

**CATEGORY:**

Unit Specific - Civic Campus (KU)

**IMPLEMENTATION DATE:**

2014/09

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**POLICY STATEMENT:**

- To start up/shutdown the Main AmeriWater MR04X Reverse Osmosis Units

**BACKGROUND STATEMENT:**

- The Civic Campus Hemodialysis Unit Nursing staff is responsible for turning on and shutting down the main water treatment systems
- The Nephrology Biomedical Technical Services team oversees all water treatment operations
- Each water system is labelled "Ameriwater #1" and "Ameriwater #2"
- All gauges are to be read in *psi* (pounds per square inch)
- Temperature is to be read in degrees Celsius
- All valves are numbered
- Water flows as indicated by directional arrows
- Variances greater than 10 *psi* on filters *are* to be reported to the Nephrology Biomedical Technical Services team

**DEFINITION(S):** N/A

**ALERTS:** N/A

## PROCEDURE:

### Section A: System start-up

#### TO TURN EACH SYSTEM ON:

1. Press the **GREEN** power button on the “Ameriwater #1” and “Ameriwater #2.”
2. Each system will display a 10 second countdown.
3. The display will eventually show “Operating” or “Tank Full.” Both are acceptable.
4. Turn **ON** the “MAIN POWER SWITCH” located on the wall just behind the water holding tank. One of two water pumps and the UV light will turn on.
5. The Nephrology Biomedical Technologist will complete the test for the presence of chloramines before the unit opens as well as other required visual checks.
6. **Do not start any hemodialysis treatments until the Technologist has verified the chloramines test is completed and the result is negative.**

### Section B: System shutdown

#### TO TURN EACH SYSTEM OFF:

1. Press the **GREEN** power button on the “Ameriwater #1” and “Ameriwater #2.”
2. Each system will display “STANDBY.”
3. Turn **OFF** the “MAIN POWER SWITCH” located on the wall just behind the water holding tank. The water pump in use and the UV light will turn off.

Note: Some pipes located on the floor are prone to breakage.  
Pay attention when walking and handling.  
Lights in the water room are to remain off when not in use.  
This is to prevent the possibility of bacterial growth within the system.

**DOCUMENTATION:** N/A

**RELATED POLICIES / LEGISLATION:** N/A

#### REFERENCES:

1. Nephrology Biomed Technical Services team
2. CSA-ISO 13959-15 *Water for haemodiaysis and related therapies*
3. CSA-ISO 26722-16 *Water treatment equipment for haemodialysis applications and related therapies*

**COMMENTS / SIGNIFICANT REVISIONS:** N/A