

Reverse osmosis system annual maintenance checklist

The annual reverse osmosis system service is the deep pass: the measurements, cleanings and tests a quarterly round doesn't reach. This checklist keeps the full service on record with the photos that make it defensible later. Work is commonly verified against manufacturer's published instructions, IPC / UPC plumbing codes. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The water-treatment service tech on the annual service of the RO system. When: Once a year, when the skid can be taken down for the clean-in-place or membrane change and the storage tank can be drained and re-charged.

Membrane service

- ☐ **Membranes cleaned or replaced per condition**
Clean-in-place run or membranes changed based on the trended pressures and quality, vessel and O-rings inspected on reassembly. 2 photos required
- ☐ **Flush and cleaning cycle run until rinse is clear**
Full flush or CIP cycle completed, rinse observed running clear before the unit is returned to product, no cleaning chemical left in the vessels. 2 photos required

Storage and delivery

- ☐ **Storage tank pressure and draw-down checked**
Tank air charge checked against the empty setpoint, draw-down and repressurization observed without short-cycling the pump. 1 photo required
- ☐ **Post-service pressures and product reading re-observed**
Operating pressures, permeate flow and the product-quality meter re-read after service and logged against the pre-service figures. 2 photos required

Integrity

- ☐ **Full skid checked for leaks after reassembly**
Every housing, vessel end cap and fitting disturbed during service brought back up to pressure and checked dry. 1 photo required