

Operation & Maintenance of a Water Storage Tank

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Operation of a Water Storage Tank	☐ Check interior and exterior tank coatings for deterioration
☐ Monitor min and max water level	☐ Check tank foundation for cracks,
☐ Monitor time to fill and empty tank	exposed reinforcing steel, settling, erosion
☐ Monitor occurrence of overflows	☐ Check grout or sealant for cracks, gaps or deterioration
☐ Monitor occurrence of alarms	
☐ Monitor for ice formation in tank	☐Check anchor bolts for deterioration, tightness, dirt
☐ Monitor chlorine residuals in tank	
☐ Monitor distribution system water demand and pressure	☐ Check tank ladder for corrosion, cracked welds, missing or loose bolts
demand and precedie	☐ Check tank roof for low spots that hold water and roof trusses for damage
Routine Inspections: Weekly	
☐ Confirm gate locked, fence secure	☐ Check screens for holes, debris, icing or snow blockage
☐ Check chlorine residuals in tank	☐ Undertake coating touch-up, clean and repair components, tighten bolts
☐ Check for leaks, rust, penetrations	
☐ Check screens, vents, overflow, access hatches all secure	Comprehensive Inspections/ Tank
☐ Check level controls operational	Comprehensive Inspections/ Tank Cleaning: 3-5 Years
☐ Check for spilling from overflow	☐ Drain and clean tank interior
☐ Check for unauthorized	☐ Examine 100% of tank and components
access/qvandalism	☐ Do testing on: tank shell thickness and
Periodic Inspections: Annual	integrity, metal content in paint, HPC of tank wall biofilm, etc.
☐ Remove dirt and weeds from base of tank and outlet, and any vegetation that	☐ Repair any damage to tank or components
may scratch tank shell	☐ Test water level indicators, sensors and
☐ Check interior of tank and riser	gauges for accuracy and calibrate
□Check tank shell to foundation connection	☐ Disinfect tank before putting back into operation and confirm microbiological safety with 2 samples taken 24 hrs apart
Chack for concrete deterioration	

☑ Check Operation and Maintenance Manual provided by tank manufacturer for more details on O&M specific to your tank and its components

☑ Keep a record of tank operational conditions and inspection findings



□Check for concrete deterioration