

Drinking Water Systems

Division Design Approval Applicability

Drinking Water Reference Guide: Colorado Department of Public Health and Environment
Water Quality Control Division - Engineering Section 303-692-6298 August 2012

This document gives a brief overview of the applicability of the Water Quality Control Division's design review and approval process for potable water facilities.



Water Facilities - Design Prior Approval Required

Is your public water system thinking about constructing a new water facility (e.g., source, treatment process, storage tank) and/or modifying an existing water facility? Prior to commencement of construction, Section 1.11.2 of the *Colorado Primary Drinking Water Regulations* (CPDWRs) requires that the Water Quality Control Division (division) review and approve the water facility design. For more information please contact division staff.

The majority of water system facility projects require division approval prior to construction but following are brief lists outlining projects that do or do not require division approval.

Projects that require division approval are listed below

- new public water systems*
- new sources (e.g., wells, springs) including re-drills of existing wells
- new water treatment facilities or improvements to existing water treatment facilities (e.g. a new treatment facility switching from gas chlorine to sodium hypochlorite)
- storage tanks
- modifications to existing water systems that will result in changes to the water quality or treatment process (e.g., coagulant chemical switch)
- State Revolving Fund projects

Projects that do not require division approval are listed below (As-built drawing and/or records should be kept onsite for review during sanitary surveys.)

- in-kind replacement of equipment (e.g., exact replacement)
- piping modifications that do not affect treatment or plant hydraulics
- distribution system projects (unless state loan funded or used for disinfection contact time.)

* New public water systems also have to demonstrated that the system has sufficient technical, managerial, and financial capacity



Funding:

The Division has several funding possibilities, primarily for community water systems, for water system projects in Colorado.

Please contact a project manager in the division's Grants and Loans Unit to discuss potential funding sources for your public water system.

Design Criteria for Potable Water Systems

The Division reviews and approves water system based on the *State of Colorado Design Criteria for Potable Water Systems* (Design Criteria). The Design Criteria covers all aspects of potable water facility design. The Design Criteria is available on the Division's website.