Rules of
Department of Natural Resources
Division 60—Public Drinking Water Program
Chapter 10—Plans and Specifications; Siting Requirements; Recreational Use of Impoundments

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Title 10—DEPARTMENT OF
NATURAL RESOURCES
Division 60—Public Drinker Water
Program
Chapter 10—Plans and Specifications;
Siting Requirements; Recreational Use
of Impoundments

10 CSR 60.10.010 Plans and Specifications

PURPOSE. This rule sets forth require-
ments for submission, review and approval
of engineering reports, plans and
specifications for community water
supply planning and construction.

Editor's Note: The secretary of state has
referred the rule to committee of the full
Senate and to committee of the full House
of Representatives. The committee will
consider the rule at a meeting to be held
before the end of the first session of
1988, if that is within the next 30 days.

(1) Report Required. When plans are being
made by a supplier of water to a community
water system for constructing expansions,
modifications and improvements of the water
supply source, water treatment facility or for
the development of a new community water
system, the supplier of water shall submit an
engineer-prepared report to the department for
review and approval. Upon receipt of an
engineering report, the department will
evaluate the report and either approve the
report in writing or outline the requirements
for further investigation.

(A) Written approval of the engineering
report shall be obtained before construction
plans and specifications are finalized.

(B) Engineering reports need not be submit-
ted to the department for facilities constructed
under a supervised program.

(C) If the original approved report is more
than 2 years old, an updated engineering
report shall be obtained before construction
for review and approval.

(2) Plans and Specifications Required.

(A) Water Treatment Facility.

1. Every supplier of water to a community
water system must submit to the department
plans and specifications prepared by an
engineer for review and issuance of a written
approval to construct prior to initiating
construction of—

A. A new water treatment facility(ies); and

B. Expansions or modifications of exist-
ing water treatment facilities which would
significantly change or alter plant capacity
or treatment processes.

2. The department shall review or advise
plans and specifications and may approve the
supplier of water and his/her engineer of the
review findings and, if required, outline
additional information or changes necessary
for approval.

3. The department may approve the plans
and specifications by issuance of a written
approval to construct and shall describe the
facilities to be constructed along with any
comments or conditions of approval.

(B) Water Supply Source. Every supplier of
water to a community water supply must
submit to the department plans and specifi-
cations prepared by an engineer for review and
issuance of a written approval to construct
prior to initiating—

1. Construction of a new water supply
source(s); or

2. Modification of an existing water
supply source which might reasonably result
in significant change in the quality or quantity
of water originally approved for the source.

(C) Water Distribution System.

1. Every supplier of water to a community
water system must submit to the department
plans and specifications prepared by an
engineer for review and issuance of a written
approval to construct prior to initiating
construction of—

A. A complete new water distribution
system(s); and

B. Expansion or modification of water
distribution systems unless a supervised
program of design, construction and construc-
tion supervision is maintained by the supplier
of water.

2. A supplier of water to a community
water supply that desires to conduct a super-
vised program for construction of water
distribution systems, in lieu of submitting
plans for approval, must submit to the
department a written request for approval.

A. Approval of supervised programs
may be granted for a period of up to five (5)
years with automatic renewal. Supervised
programs will be periodically reviewed by the
department and may be revoked should the
supplier of water fail to conduct the program in
accordance with the approved plan.

B. Upon revocation of a supervised
program, engineering plans and specifications
must be submitted to the department for
review and issuance of a written approval to con-
struct.

C. A modification(s) to an approved
supervised program may be made by written
request to the department.

D. A supervised program shall provide
the following minimum elements:

(I) Sizing water mains and appur-
tenances with minimum four-inch (4") diame-
ters so that a minimum pressure of twenty
pounds per square inch (20 psi) is maintained
under normal flow conditions. Requests for
approval to install lesser diameter water
mains serving cul-de-sacs may be granted by
the department upon submission of standard
design data;

(II) Maintenance of permanent
records and drawings of the entire water
distribution network including all appur-
tenances to the network, such as valves,
hydrants and cleanouts, along with plans and
specifications of projects under construction
for review by the department;

(III) Selection of construction
materials manufactured in conformity with the
latest standard specifications issued by the
American Water Works Association (AWWA)
or other approved specifications;

(IV) Disinfection of the distribution
system in conformity with the latest standard
specifications issued by the AWWA or other
approved methods prior to placement in
service; and

(V) Protection of water mains during
construction from sources of contamination
by—

(a) Maintaining at least a ten-foot
(10') horizontal separation of water mains
from any existing or proposed sanitary sewer.
The distance must be measured edge-to-edge.
Installation of the water main closer to a
sanitary sewer is acceptable where the water
main is laid in a separate trench or on an
undisturbed earth shelf located on one (1) side
of the sanitary sewer at an elevation so the
bottom of the water main is at least eighteen
inches (18") above the top of the sanitary
sewer;

(b) Providing a minimum vertical
distance of eighteen inches (18") between the
outside of the water main and the outside of
the sanitary sewer where water mains cross
sanitary sewer mains. This shall be the case
where the water main is either above or below
the sanitary sewer. At crossings, one (1) full
length of water pipe must be located so both
joints will be as far from the sanitary sewer
line as possible. Special structural support for
the water and sanitary sewer pipe may be
required;

(c) Providing at least a ten-foot
(10') horizontal separation between water mains
and sanitary sewer force mains. There shall be
an eighteen-inch (18") vertical separation at
crossings;

(d) Locating water mains so that
they do not pass through or come in contact
with any sanitary sewer manhole; and
(e) Consulting with the department as to the precautions necessary where the conditions in subparts (2)(C)2.D.(V)(a)-(d) cannot be met.

(3) If construction has not commenced within two (2) years after the date of issue or there is a halt in construction of more than two (2) years, the approval to construct will be void unless an extension of time has been granted by the department.

(4) All construction work must conform to approved plans and specifications.

(A) Should it be necessary or desirable to make a material change in the approved design which will affect water quality, capacity and sanitary features or performance, revised plans and specifications, together with a written statement of the reasons for the change, must be submitted to the department for review and approval. Provided, as-built plans documenting these changes are submitted to the department.

(B) Minor revisions not affecting water quality, capacity, flow, sanitary features or performance will be permitted during construction without further approval; provided, as-built plans documenting these changes are submitted to the department.

(5) Final Approval of Construction.

(A) A final inspection completed by the department or certified by an engineer with the approval of the department.

(B) Construction conformance with the approved plans and specifications and any changes documented by the submission of two (2) copies of as-built plans with the affixed seal of the engineer.

(C) A supplier of water having an approved supervised program for construction does not need additional approval of construction for work completed under that program.

(6) The department will review engineering reports, engineering plans and specifications, requests for approval of supervised water main extension programs and carry out inspections required for final approval of construction within thirty (30) working days of receipt of request. Review time is subject to emergency conditions, manpower availability or other factors beyond department control.

(7) Essential portions of copies of engineering documents will be kept on file by the department.


10 CSR 60-10.020 Siting Requirements

PURPOSE: This rule establishes requirements for siting of new or expanded water systems.

(1) To the extent practicable, all new or expanded water systems must not be located on a site which—

(A) Is subject to a significant risk from earthquakes, floods, fires, pollution or other disasters which could cause a breakdown of the public water system or a portion of the system; and

(B) Except for intake structures, is within the floodplain of a one hundred (100)-year flood where appropriate records exist.


10 CSR 60-10.030 Recreational Use of Public Water Supply Impoundments

PURPOSE: This rule establishes limitations on recreational use of water supply impoundments.

(1) Every supplier of water to a public water supply system must apply for and secure the approval of the department before permitting the use of public water supply impoundments for recreational usage.

(A) Regulated recreational activities are permitted when provisions for these activities are included in the original planning, construction, and approval of the impoundment and water treatment facilities.

(B) Recreational activities proposed for existing impoundments will be appraised in the light of the effect on the primary purposes of the impoundment, the capability of the water treatment works, the physical adaptability of the impoundment to the desired recreational use and the maintenance of public confidence in the water supply.

(2) Where recreational activities are permitted, provisions must be made for local enforcement where applicable. Rules must be posted and maintained in legible condition at conspicuous points in the impoundment area.
