

Chapter H 51

**GENERAL REQUIREMENTS FOR WATERWORKS,
SEWERAGE, REFUSE DISPOSAL**

H 51.01 Legal status
H 51.02 Plant design
H 51.03 Plant operation

H 51.01 Legal status. (1) **OWNERS AFFECTED.** The rules and regulations herein presented have the force and effect of law and govern the submission of plans and the general supervision and control of waterworks, sewerage systems and refuse disposal plants. They shall apply in general only to municipalities but must be complied with by any owner of such plants upon written notice or order from the board.

(2) **RIGHT TO AMEND OR MODIFY CODE RESERVED.** The board reserves the right to amend or modify this code at any regular or special meeting.

H 51.02 Plant design. (1) **PRELIMINARY.** Upon application, accompanied by an outline of any proposed waterworks, sewerage system or refuse disposal plant, the general requirements which will meet the approval of the board will be outlined. Preliminary or incomplete plans may be submitted for approval and recommendations if accompanied with a statement outlining omitted portions, detail plans for which shall be submitted before final approval or construction.

(2) **PLANS AND SPECIFICATIONS TO BE SUBMITTED.** Plans and specifications shall be submitted to and approved by the board before commencing construction for:

(a) New water supplies, also for extensions and alterations in the source, pumping equipment, purification, storage or any other part of existing waterworks which may affect the quality or quantity of the water.

(b) New sewerage systems and alterations or extensions of existing systems which may materially affect the quality or quantity of the effluent, or location of the outlet.

(c) New refuse disposal plants and material modifications in existing plants.

(d) All plans and specifications shall be accompanied by an application for approval.

(3) **PLANS AND SPECIFICATIONS.** (a) Municipalities shall submit three sets of plans for waterworks and sewerage and two for refuse disposal; other owners two sets of all plans. One set of all approved plans will be retained on file with the board and one returned to the owner. The third set of municipal waterworks plans will be retained for filing with the public service commission and of sewerage plans returned to the municipality for filing with the register of deeds.

(b) The plans and specifications shall include general plans, detailed plans, specifications and engineer's report.

(c) Plans shall not be larger than can be conveniently handled. All sheets for the same set of plans shall be numbered and folded to form a folio 8½ inches by 11 inches, and shall consist of sketches or prints upon a medium or light weight, high grade paper that will not

crack when folded nor tear with reasonable usage, or upon cloth. The scale in feet to which the plans are drawn, the north point, the date and the name of the designer and owner shall in all cases be indicated. All plans shall be drawn to a suitable scale which for general plans should not be less than 100 feet nor greater than 300 feet to the inch. Plans for modifications or extensions to existing systems or plants shall indicate clearly the connections or relation thereto, and, if not already on file with the board, submittal of plans of the existing system or plant also may be required.

(4) **REQUIREMENTS IN DESIGN.** In general, approved modern practice shall be followed. In case new appliances or methods are adopted, sufficient data, based upon practical application, experimental or otherwise, shall be submitted to show that satisfactory results can be secured.

(5) **PROVISION FOR FUTURE.** Waterworks and sewerage plans shall amply provide for the probable population at least twenty-five years hence except in considering parts of the systems that can be readily increased in capacity. Similar consideration shall be given to the ultimate capacity of institutions.

H 51.03 Plant operation. (1) **GENERAL.** Because of various local conditions which it is impossible to anticipate, it is impracticable to set forth other than general rules governing the operation of water purification, sewage treatment and refuse disposal plants. Every municipality or institution, however, will be required to so operate these plants as to obtain the highest possible degree of efficiency at all times. Specific instructions based upon investigations will be given from time to time regarding the operation of individual plants.

(2) **SUPERVISION.** A competent person shall be in charge of the operation of every water purification, sewage treatment or refuse disposal plant, and study the various controlling factors in order that maximum efficiency may be obtained at all times. In case of incompetent supervision or inefficient operation, the board, after due notice, may require the municipality or institution to make such changes as may be considered necessary to obtain efficient results.

(3) **CHEMICALS.** When chemicals are used in connection with any purification or treatment process, a sufficient quantity of high grade material shall be kept on hand at all times to insure against ineffective operation because of delays in securing these materials.

(4) **REPORTS AND RECORDS.** Suitable analyses shall be made and records kept upon approved forms of the operation of all municipal water purification and sewage treatment plants. A certified report upon approved forms regarding the operation of municipal water purification plants during the preceding month, shall be submitted to the board not later than the 10th of each month. Reports regarding municipal sewage treatment plants shall be submitted during the month of January for the preceding year and oftener upon written notice of the board. Similar reports and records may also be required upon refuse disposal plants and privately owned water purification and sewage treatment plants by written notice from the board.

(5) **ALTERATIONS MAY BE REQUIRED.** Where existing plants are so constructed that satisfactory results cannot be secured, such alteration may be required as necessary to secure adequate efficiency.