

## § 12.39

amending the license to include the development.

(2) For any development that was constructed after the date of issuance of the order licensing or amending a license to include the development, the initial inspection under this subpart must be completed and the report on it filed not later than five years from the date of first commercial operation, or the date on which the impoundment first reaches its normal maximum surface elevation, whichever occurs first.

(3) For any development not set forth in either subparagraph (b)(1) or (b)(2), the initial inspection under this subpart must be completed and the report on it filed by a date specified by the Regional Engineer. The filing date must not be more than two years after the date of notification that an inspection and report under this subpart are required.

(4) The last independent consultant's inspection and report made for a development before March 1, 1981 in compliance with the Commission's rules then in effect is deemed to fulfill the requirements for an initial inspection and report under this subpart for that development, except that the first report filed under this subpart for that development after March 1, 1981 must contain the information and analyses required by § 12.37(b).

(c) *Extension of time.* For good cause shown, the Regional Engineer may extend the time for filing an independent consultant's report under this subpart.

### § 12.39 Taking corrective measures after the report.

(a) *Corrective plan and schedule.* (1) Not later than 60 days after the report of the independent consultant is filed with the Regional Engineer, the licensee must submit to the Regional Engineer three copies of a plan and schedule for designing and carrying out any corrective measures that the licensee proposes.

(2) The plan and schedule may include any proposal, including taking no action, that the licensee considers a preferable alternative to any corrective measure recommended in the report of the independent consultant. Any proposed alternative must be accompanied by the licensee's complete

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justification and detailed analysis and evaluation in support of that alternative.

(b) *Carrying out the plan.* The licensee must complete all corrective measures in accordance with the plan and schedule submitted to, and approved or modified by, the Regional Engineer.

(c) *Extension of time.* For good cause shown, the Regional Engineer may extend the time for filing the plan and schedule required by this section.

### Subpart E—Other Responsibilities of Applicant or Licensee

#### § 12.40 Quality control programs.

(a) *General rule.* During any construction, repair, or modification of project works, including any corrective measures taken pursuant to § 12.39 of this part, the applicant or licensee must maintain any quality control program that may be required by the Regional Engineer, commensurate with the scope of the work and meeting any requirements or standards set by the Regional Engineer. If a quality control program is required, the construction, repair, or modification may not begin until the Regional Engineer has approved the program.

(b) If the construction, repair, or modification work is performed by a construction contractor, quality control inspection must be performed by the licensee, the design engineer, or an independent firm, other than the construction contractor, directly accountable to the licensee. This paragraph is not intended to prohibit additional quality control inspections by the construction contractor, or a firm accountable to the construction contractor, for the construction contractor's purposes.

(c) If the construction, repair, or modification of project works is performed by the applicant's or licensee's own personnel, the applicant or licensee must provide for separation of authority within its organization to make certain that the personnel responsible for quality control inspection are, to the satisfaction of the Regional Engineer or other authorized Commission representative, independent from the personnel who are responsible for

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the construction, repair or modification.

### § 12.41 Monitoring instruments.

(a) In designing a project, a licensee must make adequate provision for installing and maintaining appropriate monitoring instrumentation whenever any physical condition that might affect the stability of a project structure has been discovered or is anticipated. The instrumentation must be satisfactory to the Regional Engineer and may include, for example, instruments to monitor movement of joints, foundation or embankment deformation, seismic effects, hydrostatic pore pressures, structural cracking, or internal stresses on the structure.

(b) If an applicant or licensee discovers any condition affecting the safety of the project or project works during the course of construction or operation, the applicant or licensee must install and maintain any monitoring devices and instruments that may be required by the Regional Engineer or other authorized Commission representative to monitor that condition.

### § 12.42 Warning and safety devices.

To the satisfaction of, and within a time specified by, the Regional Engineer, an applicant or licensee must install, operate, and maintain any signs, lights, sirens, barriers, or other safety devices that may reasonably be necessary or desirable to warn the public of fluctuations in flow from the project or otherwise to protect the public in the use of project lands and waters.

### § 12.43 Power and communication lines and gas pipelines.

(a) A licensee must take all reasonable precautions, and comply with all reasonable specifications that may be provided by the Regional Engineer, to ensure that any power or communication line or gas pipeline that is located over, under, or in project waters does not obstruct navigation for recreational or commercial purposes or otherwise endanger public safety.

(b) Clearances between any power or communication line constructed after March 1, 1981 and any vessels using

project waters must be at least sufficient to conform to any applicable requirements of the National Electrical Safety Code in effect at the time the power or communication line is constructed.

(c) The Regional Engineer may require a licensee or applicant to provide signs at or near power or communication lines to advise the public of the clearances for any power or communication lines located over, under, or in project waters.

### § 12.44 Testing spillway gates.

(a) *General requirement.* An applicant or licensee must make adequate provision, to the satisfaction of the Regional Engineer or other authorized Commission representative, to ensure that all spillway gates are operable at all times, particularly during adverse weather conditions.

(b) *Annual test.* (1) At least once each year, each spillway gate at a project must be operated to spill water, either during regular project operation or on a test basis.

(2) If an applicant or licensee does not operate each spillway gate on a test basis during the periodic inspection by the Commission staff, the applicant or licensee must submit to the Regional Engineer at least once each year a written statement, verified in accordance with §12.13, that each spillway has been operated at least once during the twelve months preceding the inspection.

(c) *Load-test of standby power.* (1) An applicant or licensee must load-test the standby emergency power for spillway gate operation at regular intervals, but not less than once during each year, and submit to the Regional Engineer, at least once each year, a written statement, verified in accordance with §12.13, describing the intervals at which the standby emergency power was load-tested during the year preceding the inspection.

(2) The Commission staff may direct that a spillway gate be operated using standby emergency power during the periodic inspection.