

NON-OFFICIAL TRANSLATION by Svenska kraftnät (Maria Bartsch)

2014 Additions to the Environmental Code regarding dam safety classification

Safety classification of dams

24 § A dam shall be classified in a Dam safety class, if the dam failure may result in

1. Loss of life
2. Destruction of areas of national interest for heritage protection
3. Disruption in electricity supply
4. Destruction of infrastructure
5. Destruction or disruption of vital societal services
6. Environmental damage, or
7. Economic damage

The paragraph above does not apply to dams that have been constructed to temporarily dry up an area in connection with a building or construction work (coffer dams). 1. shall not apply if the risk of loss of life is negligible. 2.-7. does not apply to consequences that are of *little importance from a societal point of view*.

25 § In the classification according to § 24 the dam shall be classified in

1. *Dam safety class A*, if a dam failure could lead to a crisis that affects many people and large parts of society and threatens fundamental values and functions (national crisis)
2. *Dam safety class B*, if a dam failure can result in major regional and local impacts or disruptions and the dam should not be classified in dam safety class A, and
3. *Dam safety class C*, the dam should not be classified in dam safety class A or B.

If a dam failure can cause loss of life and the risk of this is not negligible, the dam shall be classified in Dam safety class A or B.

New Ordinance on dam safety; SFS 2014: 214 (effective July 1, 2014)

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Consequence assessment

2 § A person who is required to maintain a dam (the dam owner) shall ensure that there is always a documented current investigation and assessment of the consequences that a dam failure may result in (consequence assessment).

A consequence assessment shall describe

1. how a dam failure is assumed to occur,
2. potential areas subject to flooding by a dam failure, and
3. what may be damaged in the areas that would be flooded by a dam failure.

3 § A consequence assessment need not be performed if

1. a dam is less than 5 meters in height, and
2. a dam failure would not result in uncontrolled outflow of more than 100 000 cubic meters of water, or mixture of water and other materials, at the time of the failure.

4 § The dam owner shall submit the consequence assessment to the supervisory authority together with a proposal for classification under Ch. 11, 24 and 25 §§, EC.

Safety management systems and procedures for self-monitoring

5 § The owner of a classified dam shall set up a safety management system for the management of the dam facility and work according to it. The safety management system shall include the methods, procedures and instructions that need to be established and applied in respect of

1. Organization and defined duties, responsibilities and competence requirements for the personnel involved in the dam safety work
2. Identification and assessment of hazards of serious accidents
3. Operation, condition monitoring and maintenance
4. Management of change
5. Planning for emergencies
6. Revision and review

The owner shall draw up a document that briefly describes the safety management system. The description shall also include the overall objectives and principles of action regarding the enterprise's safety work.

7 § The dam owner of a classified dam shall perform and document a comprehensive assessment of the dam's safety every 10 years. The assessment shall also regard the organization of the activities.

Dam safety report

8 § The owner of a classified dam shall annually draw up, and give to the supervisory authority, a report on the dam's characteristics and the measures taken during operation and maintenance of the dam to prevent a dam failure and to limit damage caused by an accident.

Authorization for the Swedish national grid (Svenska kraftnät)

9 § Svenska kraftnät may issue regulations on when an impact assessment under 2 and 4 §§ last shall be submitted to the supervisory authority.

10 § Svenska kraftnät may issue regulations on the content and the extent and documentation of

1. The consequences assessment under 2§
2. The safety management system according to 5§
3. The overall (safety) assessment under 7§
4. The annual report under 8 §

Additions to Ordinance on fees for the supervision of the Environmental Code

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Chapter 3.

11 a § A fee for the county administrations supervision of dam safety is to be paid by the person who is required to maintain a dam (the dam owner) that is classified under Chapter 11. 24 and 25 §§ Environmental Code. The fee shall be paid annually

1. 96 000 SEK, if the dam is classified in Dam safety class A,
2. 32 000 SEK, if the dam is classified in Dam safety class B, and
3. 6 400 SEK, if the dam is classified in Dam safety class C.

If a dam facility includes several dams, the fee shall be paid for the entire facility with the maximum amount specified for any of the dams in the first paragraph.