

**STATEMENT OF PROPOSAL**  
**POLICY ON DANGEROUS DAMS, EARTHQUAKE-PRONE DAMS AND**  
**FLOOD-PRONE DAMS**  
**PURSUANT TO SECTIONS 161 AND 162**  
**BUILDING ACT 2004**

The Taranaki Regional Council (the Council) is developing its *Policy on Dangerous Dams, Earthquake-Prone Dams and Flood-Prone Dams*. As part of this process, the Council is undertaking a special consultative procedure (refer section 83 of the *Local Government Act 2002*).

The policy below covers:

- Principles the Council will apply when implementing the policy
- How the Council will keep information relevant to the policy
- How the Council will work with dam owners
- How the Council will take action or direct dam owners to address issues
- The Council's priorities in implementing the policy
- How the policy applies to heritage dams.

This consultation process gives an opportunity for interested parties to provide feedback on the draft policy prior to it being formally adopted. The Council looks forward to receiving your comments, feedback and submissions on this statement of proposal by 4pm on Monday 19 February 2024. Councilors and management are available to answer any questions or to discuss any of the proposals contained within this proposal.

Q. How do I make a submission to the Council?

A. Online

Visit <https://www.trc.govt.nz/council/news-and-events/have-your-say/> to complete a form.

Post

Write a submission and send it to:

Policy on dangerous dams submission

The Chief Executive

Taranaki Regional Council

Private Bag 713

STRATFORD

Submissions can also be made online at [www.trc.govt.nz](http://www.trc.govt.nz). Your submission must arrive by 4pm on Monday 19 February 2024. Please include your telephone number.

The Council will be hearing submissions on Tuesday 2 April 2024, and if you wish to appear in person in support of your submission, please indicate this in your submission.

Q. Do I have to come and speak to my submission?

A. No. It is entirely up to you. You will be most welcome, but if you decide not to attend the

meeting, your written submission will be given full consideration.

Q. Will the hearing be very formal?

A. No. Council members will have read your submission beforehand and have it with them; the Chairperson will invite you to expand on it.

Q. Who can I contact at the Council to discuss the Dangerous Dams Policy?

A. You are welcome to call at the Council's offices at Cloten Road, Stratford, or phone (06-765-7127) and discuss the schedule of charges with any of the following Executive Staff:

Fred McLay (Director—Resource Management)

Daniel Harrison (Director—Operations).

The Taranaki Regional Council (“Council”)

**S161 Building Act 2004**

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**POLICY ON DANGEROUS DAMS, EARTHQUAKE-PRONE  
DAMS AND FLOOD-PRONE DAMS**

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[Council logo]	<b>Document Name:</b> Policy on Dangerous Dams, Earthquake-Prone Dams and Flood-Prone Dams
	<b>Document Owner:</b> Director Resource Management
	<b>Authorised By:</b> Taranaki Regional Council
	<b>Implementation Date:</b> 13 May 2024
	<b>Review Period:</b> 5 Years
	<b>Last Reviewed:</b> n/a
	<b>Next Review:</b> 13 May 2028

## **1. Introduction**

This document sets out the policy on dangerous dams, earthquake-prone dams and flood-prone dams adopted by the Council in accordance with sections 161 and 162 of the Building Act 2004.

The policy states the approach and priorities the Council will take in performing its functions in relation to dangerous dams, earthquake-prone dams and flood-prone dams in Taranaki, and how the policy will apply to heritage dams.

This policy applies to dams defined in section 7 of the Building Act 2004 (“the Act”).

The dam safety provisions in subpart 7 of Part 2 of the Act, apply to:

1. Classifiable dams (defined in regulation 5 of the Building (Dam Safety) Regulations 2022 (“the Regulations”) to be either:
  - a. 4m or more in height and holding 20,000m<sup>3</sup> in volume; or
  - b. 1m or more in height and retaining 40,000m<sup>3</sup> in volume.
2. Referable dams as defined in the Regulations<sup>1</sup>.
3. All dams but only for the purposes of section 133B<sup>2</sup> (height measurement of dams) and sections 157-158 (measures by a regional authority to avoid immediate danger).

## **2. Application of this policy**

This policy applies to dams everywhere in Taranaki, and irrespective of the age and intended life of the dam. Some parts of this policy may apply to all dams. Where required by the Act, this policy applies to classifiable dams, which also includes “large dams” as defined in section 7 of the Act.

The terms ‘dangerous dam’, ‘earthquake-prone dam’ and ‘flood-prone dam’ have the same meaning as provided in section 153, 153A and 153AA of the Act.<sup>3</sup>

This policy must be read alongside the Building (Dam Safety) Regulations 2022 (“the Regulations”) which defines terms used in the Act in relation to “dangerous dams”, “earthquake-prone dams” and “flood-prone dams”.<sup>4</sup>

The Regulations and the Act can be accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz) <sup>5</sup>:

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<sup>1</sup> The current Regulations do not define a referable dam.

<sup>2</sup> When measuring the height of the dam under this section, the crest of the dam includes any freeboard – refer Appendix A for the definition.

<sup>3</sup> This includes buildings in areas designated under subpart 6B as set out in section 153AA of the Building Act 2004.

<sup>4</sup> Section 19 of the Regulations defines moderate earthquake, moderate flood, earthquake threshold event and flood threshold event.

<sup>5</sup> <https://www.legislation.govt.nz/regulation/public/2022/0133/latest/whole.html#LMS489207> and [https://www.legislation.govt.nz/act/public/2004/0072/latest/whole.html?search=ts\\_act%40bill%40regulation%40deemedreg\\_building+act+2004\\_resel\\_25\\_a&p=1#whole](https://www.legislation.govt.nz/act/public/2004/0072/latest/whole.html?search=ts_act%40bill%40regulation%40deemedreg_building+act+2004_resel_25_a&p=1#whole)

This policy commences on 13 May 2024.

This policy will be reviewed every five years or earlier as required. The policy remains in effect even though it is due for review or being reviewed.

### **3. Principles**

The Council will apply the following principles to the exercise of its dangerous dams, earthquake-prone dams and flood-prone dams functions under the Building Act:

1. Dam owners have the primary responsibility for identifying, monitoring and reporting on dangerous, earthquake-prone and flood-prone dams and for reducing or removing the risk of harm to people, property and the environment in a timely and effective manner.
2. An engineer engaged (by the owner) to provide a certificate for the purposes of [sections 135\(1\)\(b\)](#), [142\(1\)\(b\)](#), or [150\(2\)\(f\)](#) will notify Council and the owner of the dam if he or she or they believe that the dam is dangerous.
3. The state of all dangerous, earthquake-prone and flood-prone dams (as defined in the Act and the Regulations) must be known (noting that other dam safety provisions in the Act apply to all dams) and this information, if known to the Council, will be made readily available by the Council, to all persons potentially affected by the safety risks of a dangerous, earthquake-prone or flood-prone dam.

### **4. Council's approach to performing these functions**

#### **4.1 Information on dam status**

The Council will keep a register of all dams as required by section 151 of the Act, recording the dangerous, earthquake-prone and flood-prone status of each classifiable dam. The Council will develop a monitoring procedure to maintain the register.

Should the Council receive information about a dangerous, earthquake-prone and flood-prone dam in its region, the Council will notify the relevant territorial authority and Civil Defence and Emergency Management Group.

#### **4.2 Working with dam owners**

The Regulations require owners of all classifiable dams to know whether their dam is dangerous, earthquake-prone or flood-prone and that they will take the necessary steps, in a timely manner, to comply with the Act and the Regulations. The Act requires dam owners to immediately notify the Council if they have reasonable grounds for believing their dam is dangerous. This applies to dams that are either a high potential impact dam or a medium potential impact dam and are likely to fail in the ordinary course of events, or a "moderate earthquake" or "moderate flood" (as defined in the Regulations).

The Act also requires an engineer (engaged by the owner) to provide a certificate for the purposes of [sections 135\(1\)\(b\)](#), [142\(1\)\(b\)](#), or [150\(2\)\(f\)](#), to notify Council and the owner of the dam if he or she or they believes that the dam is dangerous.

The Council will work with the owners of identified dangerous dams, earthquake-prone dams and flood-prone dams to develop an action plan (with timeframes) with the goals of increasing the safety of the dam and eliminating or reducing the risks of the dam to people, property and the environment. It is not realistic to specify a timeframe in this policy for achieving this goal because timeframes will be dictated by the circumstances of each case. When setting a timeframe for action, the Council will consider the state of the dam, and the likelihood and consequences of dam failure.

#### **4.3 Directing and taking action**

The Council may intervene:

- For dangerous, earthquake-prone and flood-prone dams:
  - if the owner of any dam is not acting in accordance with an agreed action plan;
  - where there is no agreed action plan;
  - where it considers that the agreed action plan requires review or amendment; or
  - where ownership is not known or is disputed; and
- for all dams, where there is or likely to be a risk of immediate danger.

Before exercising any of its powers under Sections 154 to 159 of the Building Act the Council will, unless the circumstances dictate otherwise (such as where there is immediate danger to the safety of persons, property, or the environment), seek to discuss options for action with the owner of the dam, with a view to obtaining from the owner a mutually acceptable formal proposal for reducing or removing the danger. Acceptable actions by the owner may include, one or more of the following:

- operational changes such as reducing the volume of impounded fluid or completely emptying the reservoir;
- reconfiguring an existing spillway or creating a new or supplementary spillway so as to limit the maximum impounded volume and/or to safely route flood flows;
- increased surveillance and monitoring;
- development of emergency preparedness and response plans;
- review of the dam safety assurance programme;
- require the owner to engage a dam specialist to investigate and make recommendations with any report provided to the Council;
- implementing measures to enable controlled, rapid emptying of the impounded fluid;
- measures downstream of the dam to mitigate the impact of dam failure;
- physical works including reconstruction or partial demolition of the dam; and
- decommissioning and/or removal of the dam.

The whole or part of any agreement between the Council and the dam owner may be formalised in a Notice to Fix issued under section 164 of the Act. If agreement cannot be reached between the Council and the dam owner, the Council may exercise any of its statutory powers in sections 154-159 and 164 of the Act.

The Council will notify potentially affected communities downstream of a dangerous, earthquake-prone or flood-prone dams. The Council will do this by publishing information about any dangerous, earthquake-prone or flood-prone dams in its region. The Council will also work with the Taranaki Civil Defence Emergency Group.

The Council may at any time require the dam owner to review a dam safety assurance programme if the dam is an earthquake-prone or flood-prone dam.

In a situation where a dam is dangerous, the Council may:

- erect a hoarding or fence to prevent people from approaching the dam nearer than is safe;
- attach a notice on or near the dam (or affected downstream areas) that warns people not to approach; or
- give written notice to the owner requiring work to be carried out on the dam, and within the time stated in the notice to remove or reduce the danger.

In a situation where the Chief Executive of the Council considers that, because of the state of the dam, immediate danger to the safety of persons, property, or the environment is likely, then the Chief Executive of the Council may:

- cause any action to be taken to that is necessary to remove that danger; and
- recover the costs of taking any action from the dam owner.

## **5. Council's priorities in performing these functions**

The dangerous dam provisions of the Building Act will be used by the Council as a mechanism to remedy an unsatisfactory situation that has developed in Taranaki, rather than a means of responding to "emergencies" that arise in the future. The Council's approach to dangerous dams is therefore tailored toward achieving a reduction in the pre-existing risk whilst still being able to deal with risks that emerge in the future.

The priorities will be as follows in which 1 is the highest priority and 5 is the lowest priority.

1. Dams that upon commencement of the Regulations are dangerous and/or earthquake-prone and/or flood-prone due to their pre-existing condition (and not an actual change in risk), and do not have a Dam Safety Assurance Programme (DSAP) that complies with the Regulations. This priority would first consider classifiable high potential impact dams followed by medium potential impact dams;

2. Dams that are dangerous and/or earthquake-prone and/or flood-prone due to their pre-existing condition (and not an actual change in risk), and do have a Dam Safety Assurance Programme that complies with the Regulations. This priority would first consider classifiable high potential impact dams followed by medium potential impact dams;
3. Dams that due to deterioration or damage (e.g. reduction in structural integrity), or identification of previously unobserved defects, are regarded as dangerous and/or earthquake-prone and/or flood-prone (i.e. a change in likelihood of failure). This priority would first consider classifiable high potential impact dams followed by medium potential impact dams;
4. Dams that because of new or improved information (or their exposure or their setting e.g. change in assessment of whether the dam constitutes a “moderate flood” or “moderate earthquake” for that site) are regarded as dangerous and/or earthquake-prone and/or flood-prone. This priority would first consider classifiable high potential impact dams followed by medium potential impact dams;
5. Dams that due to the potential impact classification for the dam increasing from low to medium or high or from medium to high are regarded as dangerous and/or earthquake-prone and/or flood-prone (i.e. a change in consequence of failure). This priority would first consider classifiable high potential impact dams followed by medium potential impact dams.

## **6. Application to heritage dams**

For the purposes of this policy, a heritage dam means a dam that is included on:

- (a) the New Zealand Heritage List/Rārangī Kōrero maintained under [section 65](#) of the Heritage New Zealand Pouhere Taonga Act 2014; or
- (b) the National Historic Landmarks/Ngā Manawhenua o Aotearoa me ōna Kōrero Tūturu list maintained under [section 81](#) of the Heritage New Zealand Pouhere Taonga Act 2014.

Section 4(2)(l) of the Building Act recognises the “need to facilitate the preservation of buildings of significant cultural, historical, or heritage value”.

The Council recognises the need to retain heritage values of the dam itself, but also the need to reduce or remove any risk posed by a heritage dam which has been classified as dangerous, flood-prone or earthquake-prone. When considering heritage dams under this policy, account will be taken of the need to facilitate the preservation of parts of the dams with significant heritage value.

When dealing with heritage dangerous dams, the Council will seek advice from the Heritage New Zealand/Pouhere Taonga and the relevant territorial authority (if appropriate) before any actions are undertaken by the regional authority under sections 153 – 160 of the Act.

The Council may also engage suitably qualified professionals with engineering



expertise and heritage expertise to advise and recommend actions. When considering any recommendations, the Council will have regard to the priorities set out in clause 5 of this policy. Copies of all served notices for heritage dangerous dams, earthquake-prone dams and flood-prone dams will be provided to Heritage New Zealand/Pouhere Taonga.

The Council will record the heritage listing of all dangerous, earthquake-prone and flood-prone dams it is made aware of in its register of dams and supply this information to the relevant Territorial Authority for inclusion on any relevant Land Information Memorandum.