

Policy – Dam Safety Management

Policy

Southern Rural Water:

1. Southern Rural Water recognises the importance of its large dams and weirs to businesses and communities.
2. SRW recognises that dam ownership requires considering events of very low probability and high consequence, which may occur over the long-term.
3. SRW will not expose the community to unacceptable risks from the existence and operation of SRW dams..
4. SRW commits to:
 - a. use recognised prevailing good practice in managing its dams
 - b. accept ANCOLD Guidelines as the primary guidance for good management dam safety practices
 - c. have regard to the Guidelines as specified in the corporation's Statement of Obligations.
5. Any significant departure of SRW's dam safety program from the Guidelines requires:
 - a. a documented risk assessment or the written approval of a specialist dams engineer
 - b. approval from the Managing Director
 - c. reporting to the board.
6. SRW recognises this as a very specialist area. We commit to ensuring that staff and advisors who are directly involved in dam safety have appropriate skills and knowledge.
7. SRW will manage dam safety risks by a program of inspection, maintenance, monitoring, safety reviews, risk assessments, training, reporting, emergency management and remedial work.
8. SRW will progressively upgrade dams to satisfy the ANCOLD *Societal and Individual Risk Reference Guidelines* so that the risk of dam failure falls and remains below the '*Limit of Tolerability*'.
9. SRW will assess dam safety improvements to further lower risks to *As Low As Reasonably Practical (ALARP)* considering:
 - a. the cost and the benefit of possible improvements;
 - b. legal requirements;
 - c. the views of government or the dam safety regulator;
 - d. options to improve societal risk and their associated cost
 - e. other funding sources

- f. the views of the affected public
 - g. community and political expectations using the DELWP 2015 publication *Engaging Communities on Dam Safety*
 - h. other business risks.
10. SRW will consider the affordability to the relevant customers when assessing dam safety upgrades.
 11. SRW will inform affected communities about dam safety upgrades using the DELWP 2015 publication *Engaging Communities on Dam Safety*.
 12. SRW will comply with its Dam Safety Management Manual (2014) approved by the Managing Director and any future updates of the manual.
 13. The role of the Board of Directors is to:
 - consider and approve the Dam Safety Management Policy, including periodic review at five-year intervals
 - review and authorise the Annual Report of the Dam Safety Program
 - approve capital works on Headworks assets where expenditure is >\$750k for budgeted works or >\$75k for unbudgeted works
 - approve the Dam Safety upgrade program in Water Plans and Corporate Plans
 - consider and address dam safety issues or threats that may arise between each Annual Report
 - remain abreast of the State Government's general dam safety responsibilities and obligations for Board members
 - oversee the implementation of dam safety improvements identified in audits.

Definitions

ANCOLD: the Australian National Committee on Large Dams.

ALARP: As Low As Reasonably Practicable principle, which states that risks lower than the 'limit of tolerability', are tolerable only if risk reduction is impracticable or if its cost is grossly disproportionate (depending on the level of risk) to the improvement gained.

Limit of Tolerability: A limit set by ANCOLD to assess safety upgrades for dams. The limit is plotted on F-N charts that plot the cumulative probability of failure (F) against number (N) of deaths, and the plot of failure modes for a dam can be compared to this limit. If any section of the plot falls above the Limit of Tolerability, remedial works are required.

Effective date and review date

This policy takes effect on 5 September 2017.

It is due for management review in October 2019 and board review October 2022.

Who is affected This policy applies to managers and employees who make decisions affecting the safety and maintenance of SRW dams.

Rationale Dam safety improvements are expensive and require judgments balanced between community safety and customer price impacts.

Contact For more information on this policy, contact the General Manager Technical Services.

Related documents ANCOLD (2003), *Dam Safety Management Guidelines*
ANCOLD (2003), *Guidelines on Risk Assessment*
ANCOLD (2012), *Guidelines on the Consequence Categories for Dams*
DELWP (Updated March 2015), *Guidance Note on Dam Safety Decision Principles*
DELWP (April 2014), *Strategic Framework for Dam Regulation*
DELWP (2015), *Statement of Obligations*
DELWP (August 2015) Engaging Communities on Dam Safety
Southern Rural Water (2014), *Dam Safety Management Manual*
SRW, *Water level management in Lake Glenmaggie policy*

Publication This policy will be made available on SRW's website.
