

Written questions, answers and statements

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Statement made by

George Eustice	>
Secretary of State for Environment, Food and Rural Affairs	
Conservative	
Camborne and Redruth	🛍 Commons

Statement

Reservoirs play a vital role in safeguarding our water supply, by storing water that falls in the wetter part of the year, to ensure continuity of supply when it is dry. But storing large volumes of water is not without risk – in August 2019 parts of the spillway at Toddbrook Reservoir collapsed following significant heavy rainfall and around 1,500 local people were temporarily evacuated while the reservoir was made safe. More than 17,000 were potentially at risk of flooding from the reservoir dam being breached. Fortunately, incidents such as this are very rare. We have a strong record of reservoir safety and compliance with our safety regulations is good.

We cannot however be complacent. The number of reservoirs in England is growing by an average of 15-20 per year, adding resource pressures for already stretched panels of engineers. Reservoir assets are ageing, which increases risks where investment is limited. In addition, the more extreme periods of drier and wetter weather expected as a result of climate change, will place increasing stresses on reservoir infrastructure.

Following Toddbrook, Professor David Balmforth's independent review considered whether the regulation of reservoirs, which protects more than 2.2 million households and properties in England, remains effective and robust in securing the ongoing safety of this critical infrastructure. The review identified common examples of poor practice in the work of reservoir safety engineers and concluded that the Reservoirs Act 1975 does not effectively support modern, risk-based safety practices. It recommended:

- a new risk/hazard based safety regime, where safety requirements are proportionate to risks;
- improving safety management practice by reservoir owners;
- improving inspection and supervision by reservoir engineers; and

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• strengthening the regulator's role.

I am therefore confirming today that the Government has accepted Professor Balmforth's recommendations and will carry out reform of the reservoir safety regime and modernisation of the Reservoirs Act 1975. Defra and the regulator - the Environment Agency - will commence a programme of work now, with a view to consultation in 2023/24. Once the consultation has concluded, the Government will then work to develop legislative proposals. The Government would then legislate when Parliamentary time allows.

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The Government considers that the review has made a strong case for improving safety practice, strengthening roles and . .

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responsibilities for owners, engineers, and the regulator, and for modernising the legal framework.

The following principles will be applied to shape and guide the reforms. We will aim to:

- Reduce risk to life as low as reasonably practical
- Take early action to address risks where possible
- Fairly apportion costs for risk management with reservoir owners
- Take a proportionate, risk-based and customer-friendly approach

The Government has been considering whether small raised reservoirs, which are between 10,000m3 and 25,000m3 in volume and are currently unregulated, should be brought under the scope of the Reservoirs Act 1975. We are minded that, subject to a consultation, such reservoirs should be regulated in future and will develop proposals as part of the reform of the safety regime. Research suggests that there are around 500 small raised reservoirs which pose risks for local communities if the structures were to fail. At least 5 incidents a year occur where emergency measures are needed to prevent dams and embankments from breaching or failing which indicates a strong need to regulate such reservoirs to ensure public safety. During 2022/23 the Environment Agency plans to introduce a free registration scheme for owners of small raised reservoirs, which will collect data about these reservoirs and help inform a proportionate approach to regulation.

The reform programme will be taken forward collaboratively, with owners and engineers being involved in shaping the details. It will include:

• reforms that can be done through existing powers, secondary legislation, guidance, training and Codes of Practice during 2022/23 and 2023/24, including:

o improving enforcement options and flexibility using civil sanctions;

o introducing review of engineers' reports by the Environment Agency;

o developing proposals for a proportionate charging scheme to improve recovery of regulatory costs; and

o introducing a free registration scheme for owners of small raised reservoirs during 2022/23.

• preparing for modernising the Reservoirs Act 1975 with a view to consulting on proposals during 2023/24, including:

o developing a new risk/hazard classification and how it could operate;

o developing proposals to make the future supply of reservoir engineers more sustainable;

o developing proposals for regulating small raised reservoirs within the new safety regime, for consultation.

This will build on actions that have already been taken to strengthen reservoir safety, for example:

- a Ministerial Direction in April 2021 requiring reservoir owners to prepare on site emergency flood plans for all their large raised reservoirs. Owners were given a year to do this and the Environment Agency report that 94% of registered reservoirs now have plans certified by reservoir engineers;
- guidance issued to reservoir owners about having inspection information packs for their reservoirs;
- guidance developed in collaboration with engineers and issued by the Environment Agency to improve spillway inspection and management; and
- the Institution of Civil Engineers, at my request, is carrying out research to improve the future supply of engineers.

The reform programme will be spread over several years so that changes can be managed alongside ongoing reservoir safety management in a proportionate and reasonable way. The Welsh Government and the other UK administrations will be kept informed and involved with the development of the safety regime because the Reservoirs Act covers England and Wales, and reservoir engineers work across the UK. The Reservoirs Act 1975 as amended by the Flood and Water Management Act 2010 will remain in force until legislative changes are made.

The Government's planned actions in response to individual recommendations in the review are summarised in Table 1 below.

Our reforms will bring the reservoir safety regime for England into line with other high risk sectors such as the nuclear industry and rail. It will lead to a modernised safety regime that protects the lives and livelihoods of those living downstream of reservoirs, while preserving the important role of these crucial assets in safeguarding our water supply in a changing climate.

Table 1 Summary of Reservoir Safety Review Recommendations and Actions

https://questions-statements.parliament.uk/written-statements/detail/2022-07-20/hcws246

Consultation on proposed reforms is anticipated in 2023/24.

# Short Description of Recommendation	Proposed Actions for 2022/23 and 2023/24
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	Divide 'high risk' reservoirs into three hazard classes	Accept in principle and pressure for consultation by
1	a) More frequent inspection to be required for high hazard	Accept in principle and prepare for consultation by researching and developing an improved hazard
	a) More nequent inspection to be required for high hozdro	classification.
	b) Thresholds between classes to be determined by EA in consultation	
	c) Government should review threshold for high risk designation	Defra lead
\mid	Strengthen EA regulation	
	Strengthen LA regulation	
	a) EA to raise awareness of duties & responsibilities	Accept and begin to develop business case and options
0	b) EA to support owners in developing their capacity	for introducing a proportionate charging scheme.
	b) EA to support owners in developing their cupacity	
	c) EA to charge for regulation (& incentivise good behaviours)	EA lead
	d) EA to adjudicate disputes between engineers and owners	
\mid	Introduce Reservoir Safety Management Plans (RSMPs) reflecting class	
	Introduce Reservoir Safety Management Flans (RSMFS) reflecting class	
	a) Owners should prepare RSMPs reflecting hazard class	
	b) RSMPs should be kept as prescribed form of record	Accept in principle and prepare for consultation, by
3	b) RSMPS should be kept as prescribed form of record	developing proposals for prescribed, risk-based RSMPs.
	c) Supervising engineer to review and certify annually	Defra and EA joint lead
	d) Owners to ensure competent staff (certified for higher hazard class)	
	d) Owners to ensure competent stan (certined for higher huzdra class)	
	e) EA to produce guidance	
	Strengthen Supervising Engineer (SE) role	Accept principle of improved SE practice and develop
Δ	a) SEs to engage in surveillance, review records, check RSMP delivery	guidance and training.
	a) ses to engage in surveitance, review records, check home delivery	
	b) SEs to certify compliance with RSMP and approve RSMP for next year	EA lead
	Strengthen Inspecting Engineer (IE) role	
	a) IEs to identify potential failure modes as part of inspections	
		Accept and begin to develop improved good practice
5	b) IEs to require precautionary interim measures quickly if concerned	guidance for IEs.
	c) IEs to produce risk assessment for higher hazard classes	
	by it's to produce that assessment for higher hazara classes	EA lead
	d) Clear timescales to be attached to MIOS	

	(e) Precautionary measures to be ALARP[1] if they compromise operation	
		Improve management of Measures in the Interest of Safety (MIOS)	
	(a) MIOS to be clearly indicated in IE reports	
6		b) Owner to appoint construction engineer for MIOS within 14 days	Accept and begin to develop improved good practice guidance for MIOS.
ĺ		c) Urgent MIOS to be completed asap and by specified completion date	EA lead
	(d) Certification issued on completion of MIOS to provide details	
	(e) RSMP amendments to be specified with required dates	
		Improve supply of future panel engineers	Accept and continue existing work to explore options for
	,		implementing with Institution of Civil Engineers (ICE).

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	/	(Especially in light of small number of current engineers and aging	
		profile)	Defra lead
		Support career progression for panel engineers	Accept in principle and plan how to take forward
8	3	a) Revise designation of panels to introduce more responsibility tiers	following advice from ICE.
		b) ICE to provide more support with training, mentoring, guidance	Defra lead

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	Better knowledge sharing and learning for panel engineers	
	a) EA to provide more access to learning for engineers	Accept and begin developing guidance and other best
9	b) EA to ensure lessons from incidents are more comprehensive	practice sharing mechanisms.
	c) EA to introduce reporting of near misses and anonymous reporting	Defra and EA joint lead
	d) EA to update guidance for SEs, IEs and for risk assessments	
	Introduce risk assessments and manage reservoirs so risk is reduced to 'ALARP'	
10	a) Owners to manage risks to ALARP based on a risk assessment	Accept in principle and prepare for consultation by developing proposals for risk assessments
	b) Risk assessment to be based on good practice (& informs RSMP)	Defra lead
	c) MIOS should ensure risks are both tolerable and ALARP	Dena lead
	d) If risk cannot be reduced to tolerable levels, decommission	
	Strengthen EA duties and powers	
	a) EA and Defra to produce / commission a code of practice	
11	b) Expand EA duties to allow them to assure owners duties are fulfilled	Accept in principle and begin EA quality assurance of panel engineer's work.
	c) Expand EA duties to allow them to assure SE & IE reports & RSMPs	Defra and EA joint lead
	d) Expand EA powers to challenge SE & IE reports, RSMPs (etc)	
	e) Expand EA duties to spot check owners' activities	
	Strengthen EA enforcement	Accept in principle and plan for consultation and
10		implementation.
12	b) Expand EA powers to include fines	Develop business case and options for EA civil sanctions.
	c) Strengthen independence of EA regulator from role as operator	Defra and EA joint lead
13	Climate change research: a) current and b) future programme of	Accept and include in R&D programme
	research	EA lead
		Accept principle of data publication – EA to develop
14	Publication of data and transparency reports by a) EA and b) Owners	proposals
		EA lead
	Review and update legislation and regulations (includes concern that	Accept, engage with stakeholders, and develop programme of reform
115	current legislation is out-dated and inflexible for modern H&S practices)	
		Defra lead

Statement from

Department for Environment, Food and Rural Affairs

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Linked statements

This statement has also been made in the House of Lords

Department for Environment, Food and Rural Affairs	>
Reservoir Safety - reforming the safety regime and modernising legislation for England	
Image: Lord Goldsmith of Richmond Park Minister of State (Minister for Pacific and the Environment) Conservative, Life peer	
Statement made 20 July 2022	
HLWS249	ords

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