

# Dam Safety General Permit Authorization Table (General Permits Issued on 10-16-2015 and expire on 10-16-2025)

## Maintenance, Repair, Alteration, and Removal of Dams in Connecticut

Non-Filing Categories GP-014	Filing-Only Categories GP-015		Approval of Filing Categories GP-016
DAMS OF ANY SIZE AND STORAGE CAPACITY; <u>PROFESSIONAL ENGINEER OVERSIGHT IS NOT REQUIRED.</u> No filing form is required.	DAMS <= 15' HEIGHT AND <=50 AC-FT IN STORAGE, <u>PROFESSIONAL ENGINEER OVERSIGHT IS NOT REQUIRED</u> Use Form DEEP-IWRD-GP-015-3(a)1	DAMS OF ANY SIZE AND STORAGE CAPACITY; <u>PROFESSIONAL ENGINEER OVERSIGHT REQUIRED.</u> Use Form: DEEP-IWRD-GP-015-3(a)2	DAMS OF ANY SIZE AND STORAGE CAPACITY; <u>PROFESSIONAL ENGINEER OVERSIGHT REQUIRED.</u> Use Form DEEP-IWRD-GP-016-3(a)
Note that activities authorized by the Non-Filing Categories General Permit DEEP-IWRD-GP-014 may be conducted independently of or concurrently with any filings made under permits DEEP-IWRD-GP-015 and DEEP-IWRD-GP-016.			
3(a)1. Removing debris blocking spillways and intake areas.			
3(a)2. Removal of an annual limit of 50 cubic yards of recently accumulated sediment from spillways, intake areas, etc.			
3(a)3. Replacing failing weir boards.			
3(a)4. Installing security and safety fencing.			
3(a)5. Replacing elastomeric sealant in construction joints.			
3(a)6. Placing topsoil and establishing grass cover on existing riprapped embankments flatter than 1.75 to 1 slope.			
3(a)7. Maintenance of existing toe drain / filter systems & repairing or installing seepage measurement devices.		3(a)2a. Installation of up to 200 linear feet of engineered toe drain system per filing,	3(a)1. Installation of up to 400 linear feet of engineered toe drain system per filing,
3(a)8. Exercising and maintenance of gates and valves during seasonal high flow periods with principal spillway discharge and limited to opening the valve followed by closing it shortly afterwards to minimize the flushing sediments, prevent lowering the impoundment below the spillway level, and prevent high flow conditions downstream		3(a)2b. Minor repair of trash racks, gates and valves within inlet or outlet or drop inlet structures that can be completed without excavation into the dam.	3(a)2. Minor repair, removal, and replacement of trash racks, gate valves and sluice gates, as well as associated hardware.
3(a)9. Replacing up to 10 square yards of missing and storm scoured riprap annually on dams, along embankments, and within spillway discharge channel(s). Authorization includes adding new riprap only in areas where riprap already exists and includes moving displaced riprap back to its original location.	3(a)1a. Replacing up to 25 square yards of missing and storm scoured riprap on dams, along embankments, and within spillway discharge channel(s). Authorization includes adding new riprap only in areas where riprap already exists and includes moving displaced riprap back to its original location.	3(a)2c. Placing up to 75 square yards of riprap on dams, along embankments, and within spillway discharge channel(s). Authorization includes adding new riprap in areas where necessary and includes moving displaced riprap back to its original location.	3(a)3. Placing new or replacing up to 150 square yards of riprap on dams, along embankments, and within spillway discharge channel(s). Authorization includes adding new riprap in new areas where necessary and includes moving displaced riprap back to its original location.
3(a)10. Cutting and removing woody vegetation including brush and trees, from the top, the upstream and downstream embankment slopes, and within 25 feet of the downstream toe, and the abutment / embankment contacts. Removal of root systems of trees and brush three (3) inches and smaller in diameter at ground level is allowed.	3(a)1b. Restoring minor eroded areas. This would include tire ruts and damage from pedestrian traffic, and bare areas. Hand repair only, no heavy equipment. Does not include filling erosion caused by overtopping, filling sinkholes or depressions in the embankment as these anomalies must be properly investigated by a professional engineer.	3(a)2d. Removing tree root systems and restoration of dam embankment crests and slopes where the tree density is less than 1 tree per 100 square feet.	3(a)4. Removing tree root systems and restoration of dam embankment crests and slopes where the tree density is less than 2 trees per 100 square feet.
3(a)11. Restoration of grass cover where appropriate, on the top of a dam, the upstream and downstream embankment slopes, the dam's abutments, and to within 25 feet of the downstream toe of the dam & abutments. This includes placing topsoil, seed and hay mulch to repair tire ruts, footpaths, and bare areas. Does not include filling eroded areas, sinkholes or depressions.			The tree density on the crest and slope shall be computed by counting the number of trees greater than 3" diameter at ground level and dividing by the square footage of the areas of the dam where tree root system removal is proposed.
3(a)12. Filling of up to an annual limit of 10 animal burrows no more than three feet in depth with the bottom visible and dry located in downstream slopes. Work done only by hand.	3(a)1c. Filling of up to a per-filing limit of 15 animal burrows no more than three feet in depth with the bottom visible and dry located in downstream slopes. Work shall done by hand.	3(a)2e. Filling of up to a per-filing limit of 20 animal burrows located in upstream or downstream slopes.	3(a)5. Filling of up to a per-filing limit of 25 animal burrows located in upstream or downstream slopes.

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3(a)13(a). Patching of up to an annual limit of 100 square feet of spalling on and sealing of concrete surfaces done by hand.	3(a)1d. Patching of up to a per-filing limit of 500 square feet of spalling and sealing of concrete surfaces done by hand.	3(a)2f. Patching of up to a per-filing limit of 1000 square feet of spalling and sealing of concrete surfaces	3(a)6. Repairs to and construction of concrete structures on dams, spillways, and appurtenances requiring formwork and reinforcing steel using up to a per-filing limited volume of concrete based on formulas for concrete dams and earth embankment dams. This work may include patching of spalling, surface repairs, crack repairs, concrete structure repairs, and repair of intake and outlet structures, headwalls, endwalls, wingwalls, training walls, and new appurtenant structures that can be constructed without excavation into the dam.  Earth: Length X Height / 100 = Max cy of concrete Concrete : Length X Height / 50 = Max cy of concrete
3(a)13(b). Repair of up to an annual limit of 100 linear feet of cracks in concrete.	3(a)1e. Repair of up to a per-filing limit of 200 linear feet of cracks in concrete.	3(a)2g. Repair of up to a per-filing limit of 500 linear feet of cracks in concrete.	
3(a)13(c). Repair of concrete structures on the dam done by hand using up to an annual limit of ¼ cubic yards of concrete.	3(a)1f. Repair of concrete structures on the dam done by hand with formwork and reinforcing steel allowed using up to a per-filing limit of one cubic yard of concrete in total for the dam.	3(a)2h. Repair of concrete structures on dams, spillways, and appurtenances requiring formwork and reinforcing steel using up to a per-filing limited volume of concrete based on formulas for concrete dams and earth embankment dams.  Earth: Length X Height / 200 = Max cy of concrete Concrete : Length X Height / 100 = Max cy of concrete	
3(a)13(d). Repointing and repairing masonry on the dam using up to an annual limit of 1/8 cubic yard of mortar. Demolition and re-construction is not authorized.	3(a)1g. Repointing and repairing masonry on the dam using up to a per-filing limit of 1/4 cubic yard of mortar. Demolition and re-construction is not authorized.	3(a)2i. Repointing and repairing masonry on the dam using up to a per-filing limit of 1/2 cubic yard of mortar. Demolition and re-construction is not authorized.	3(a)7. Repointing and repairing up to a per-filing limit of 250 square feet of masonry on the dam using unlimited volume of mortar. Partial demolition and re-construction of walls less than six feet in height with sound footings is authorized.
		3(a)2j. Sliplining and grouting up to 100 linear feet of up to 36-inch diameter existing outlet pipes per filing where the existing pipe is not significantly deformed.	3(a)8. Sliplining and grouting existing outlet pipes (no size or length restriction) per filing where the existing pipe is not significantly deformed.
		3(a)2k. Grouting voids by means of gravity fed cement or pressure injection chemical grouting which is supervised by a CT licensed professional civil engineer.	3(a)9. Grouting voids by means of gravity fed cement or pressure injection chemical grouting which is supervised by a CT licensed professional civil engineer.
		3(a)2l. Installation of footbridges or vehicular bridges over spillways not requiring center support piers	3(a)10. Installation of footbridges or vehicular bridges over spillways that may require center support piers
		3(a)2m. Digging test pits, drilling soil borings, installing piezometers when necessary to investigate internal conditions within earth embankment dams.	3(a)11. Digging test pits, drilling soil borings, installing piezometers when necessary to investigate internal conditions within earth embankment dams.
		<b>DAM REMOVAL ACTIVITIES</b>	<b>DAM REMOVAL ACTIVITIES</b>
		3(a)3. Removal of Remnants of a dam which no longer impounds water or accumulates and retains sediment.	3(a)12. Removal of DEEP Dam Safety confirmed class A (Low) or class BB (moderate) downstream hazard dams
			3(a)13. Stabilization of naturally breached dams.
			3(a)14. Removal of weir boards or creation of a notch in a spillway to incrementally lower an impoundment.
			3(a)15. Installation of fishways at spillways.
			3(a)16. Improvements to spillway discharge channels for fish passage.