

WATER RESOURCES PROJECTS TENNESSEE

Roller compacted concrete (RCC) has been used to construct large dams (dams over 50 feet high) in the United States since the first one was constructed in the early 1980's. Progress in design and construction over the ensuing decades have solidified RCC as an economical and resilient method to build large dams. See below for examples of successful large dam projects that have been completed in the state. Learn more by visiting [PCA's Dams Page](#).

● A red dot indicates RCC Dam project 50' and higher



Name	City	Date	Max Height (ft.)	Length (ft.)	RCC Volume (cy)	Cement (lb/cy)	Flyash (lb/cy)	Upstream Facing	Total Project Cost (\$ Millions) (2)	RCC Unit Cost (\$/cy) (2,3)	Owner	Designer	Contractor	River
Nickajack Auxiliary Spillway	Pittsburg	1991	55	1,316	103,000	143	200	Earth or Rock Fill Placed Concurrently with RCC	—	—	Tennessee Valley Authority	Vann A. Newell & Harry A. Mason	TVA Construction Forces, GUMBK, Sequatchie Concrete Services Inc.	Tennessee
Center Hill Auxiliary Backup Dam	Smithville	2019	136	960	145,000	157	157	Formed RCC (see comments)	43.0	—	US Army Corps of Engineers, Nashville District	USACE, Nashville District	Thalle Construction	Wolf Creek (Tributary)
Comments:	Rockfill placed against upstream face.													

Notes:	
1.	The information contained herein was compiled by the Portland Cement Association and published for informational purposes only. The user of this information is responsible for confirming the accuracy or completeness of the information.
2.	Cost information shown is nominal.
3.	RCC unit costs do not include mobilization costs.