



Alamo Lake Dam, AZ

Operations & Maintenance

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG.

LOCATION AND DESCRIPTION: Located 25 miles North of Wenden, AZ & 120 miles NW of Phoenix, AZ. Placed in full operation, July 1968. Project condition is good and has a dam safety action class rating of IV. Project elements being operated & maintained include: Dam (earthfill: 283-ft high; 975-ft long) Outlet Works Spillway Service Roads Reservoir (1,045,300 acre-ft cap, spillway crest - 1977) One Recreation Area with 48,783 visitors in 2013.

AUTHORIZATION: Flood Control Act of 1944

ACTIVITIES FOR FY 2017: Funds will be used for: Legal or policy mandated Operational activities, including buildings, grounds, utilities; dam operations; issuance of bulkhead gate removal & inspection contract; environmental management & compliance; Real Estate compliance inspections; recreation management; service facilities; water control/quality management. Legal or policy mandated minimum level maintenance; Real Estate permits/out-granting; dam safety; issuance of solar panel energy sustainability contract & heavy equipment purchase/servicing.

FY18 PLANNED ACCOMPLISHMENTS: Optimal funds could be used for: Legal or policy mandated minimum level Operational activities, including periodic inspection of dam & associated facilities; further evaluations of bulkhead gate; water control & management, including data analysis & review of potential modifications to operations; environmental stewardship activities & recreation management. Legal or policy mandated Maintenance activities, including highest priority electrical rehabilitation & structural needs for elevators and dam facilities.

ISSUES AND OTHER INFORMATION: Latest studies indicate that during a probable maximum flood event the spillway could be incapable of handling the discharge, resulting in overtopping and possible failure of the Dam. Several protected species occur within the vicinity of Alamo Dam, including the endangered southwestern willow flycatcher, the threatened yellow billed cuckoo & northern Mexican garter snake. The Bill Williams River Corridor Steering Committee, consisting of stakeholder agencies concerned with operations of Alamo Dam, has made operational recommendations proposing to modify the 2003 water control manual. The Corps supports some of these recommendations and also desires to modify the water control manual for more efficient flood risk management purposes. After 50 years, there is a need to rehabilitate the dam operator compound structures as well as major dam components to reduce the risk of structural and/or component failure. A contract to remove the bulk head gate was issued. Efforts are underway to complete an inspection of the bulk head gate and the upper outlet works, which has not been inspected in more than 20 years. There is a high likelihood that either the gate, or the upper outlet works will require repair/rehabilitation. The ventilation system for the control hose needs to be redesigned and modified to provide adequate capacity and to discharge H2S gases away from the entrance to the tower. The stream-gage downstream from the dam cannot provide accurate flow measurements because the control weir was installed too low when it was rebuilt in the 1990s and it must be modified to become serviceable again. Electronic communication can be unreliable between the LA District office and operators at the Dam, particularly during inclement weather events.

CONGRESSIONAL INTEREST: Congressman Paul Gosar (AZ-4)



As of: 2 Feb 17

FINANCIAL SUMMARY:

	<u>O&M</u>
Estimated Federal Cost	1,457,000
Estimated Non-Federal Cost	0
Total Estimated Project Cost	1,457,000
Allocation thru FY16	1,457,000
Allocation for FY17	TBD
President's Budget for FY18	TBD
House Report for FY18	TBD
Senate Report for FY18	TBD
Balance to Complete After FY18	N/A

U.S. ARMY CORPS OF ENGINEERS – LOS ANGELES DISTRICT

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