Public Works
F. P. 242, Lower Moencopi Wash

5.5.1

District No. 5
Albuquerque, New Mexico
September 8, 1934

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

Lower Moencopi Wash Project, F. P. 242, which has been under construction for some time and nearly completed, was damaged by floods which occurred on August 27, 1934. Records of the discharge of the Moencopi Wash show that floods in the amount of 9,000 cubic feet per second might be expected. The spillway of the dam was designed for 10,000 cubic feet per second. Torrential rains fell on the watershed of the Moencopi Wash on the evening of August 27 and again on the morning of August 28. About noon on the 28th there were some eight to nine thousand feet of water flowing in the Moencopi Wash. Shortly after this an additional 8-foot wall of water came down the wash, causing one of the largest floods in the history of this area, estimated at 20,000 second feet. This is also evidenced by the fact that the flood waters reached a new high water mark at the highway bridge over the Moencopi Wash. At this point, water was at an elevation of the middle guard rail of the bridge and made a complete change of channel below the highway.

One of the engineers was witness to this flood as were a number of Indians who have resided continuously in this area and they have declared that this is the largest flood that they have ever witnessed.

No damage was done to the main structure; however, protective work was being placed at the west end of the dam, as contemplated in the original plans. Due to the fact that this was not completed, the floods cut around the end of the dam which will require an additional 60-feet of masonry to close the aperature. The material on which the new construction will rest is identical with that on which the dam was built and will only require the construction of a wall four feet in height. In addition to this it will be necessary to move the head gate structure downstream 60 feet and concrete line the canal section for at lest 100 feet. Considerable silt was deposited in the canal which should also be removed at this time.

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Funds in the amount of $5,675.00 are needed to make the necessary repairs to flood damages to prevent further erosion of the west bank. It is hoped that funds can be made available at an early date, thus eliminating further expense in the rehabilitation of this project.

The following is an estimate of the cost.

Estimated Yardage on Left End Wall - 90 Cu. Yds. @ $15.00	$1350.00
Estimated Yardage on Right End Wall - 10 Cu. Yds. @ $15.00	150.00
Estimated Cost of Sluice-box & Inlet Structure	600.00
Estimated Cost of Changing Gates	100.00
Estimated Cost of Changing Pipe	200.00
Estimated Yardage Concrete along Toe of Dam 15 Cu. Yds. @ $25.00	775.00
Estimated Cost of 100' Lined Ditch, - 2 1/2" @ $3.00	300.00
Estimated Yardage Silt to be Removed - 6200 @ .30	1860.00
Engineering & Contingencies	340.00
SUM TOTAL	$5675.00

Very truly,

H. C. NEUFFER
Supervising Engineer

CAB/KD
cc H. V. Clotts

U. S. INDIAN SERVICE
RECEIVED
SEP 10 1934
ASSISTANT DIRECTOR
OF IRRIGATION

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