



690 North Studebaker Road
 Long Beach, CA 90803
 tel 562 493 7891
 fax 562 493 7320

February 8, 2018

Karen L. Larsen
 Director
 State Water Resources Control Board
 1001 I Street
 Sacramento, CA 95814

RE: Once-Through Cooling Interim Mitigation Requirements for the Alamos Generating Station

Dear Ms. Larsen,

This letter is in response to your December 11, 2017 correspondence requesting information for determining interim mitigation fees for Once-Through Cooling (OTC) impingement and entrainment impacts at the AES Alamos Generating Station (AES-AL). As stated in your letter, you requested the following information:

1. Monthly and total intake volume for October 1, 2016, through September 30, 2017; and
2. Actual annual impingement data in total pounds from October 1, 2016 through September 30, 2017, or newly available impingement data since October 1, 2016.

Our responses to your data request are detailed below:

1. **Monthly and total intake volume for October 1, 2016 through September 30, 2017**

Intake volumes for AES-AL are listed in the table below:

Month	Intake Volume ¹ Units 1 &2 (MGD)	Intake Volume ² Units 3&4 (MGD)	Intake Volume ³ Units 5&6 (MGD)	Intake Volume Total AES-AL (MGD)
October-16	1018.95	8845.03	1556.43	11420.41
November-16	1069.54	6501	1339.02	8909.56
December-17	1072.7	3074.22	571.75	4718.67
January-17	2032.75	2458.17	2109.87	6600.79
February-17	1457	4276.58	721.43	6455.01
March-17	2273.48	4928.83	787.8	7990.11

¹ Discharges to EFF-001

² Discharges to EFF-002

³ Discharges to EFF-003

April-17	2125.65	1160.6	574.86	3861.11
May-17	2227.14	4074.48	2189.09	8490.71
June-17	3062.09	4564.34	6469.58	14096.01
July-17	3300.2	5392.66	2807.13	11499.99
August-17	2159.85	8759.1	8928.26	19847.21
September-17	3212.72	6424.04	5457.39	15094.15
Total	25012.07	60459.05	33512.61	118983.73

There were no days during the period October 2016 through September 2017 when intake volume data was not available. Intake pumps were operational during the entire period. At least one circulating OTC pump was required for either power generation or critical system maintenance at all times at AES-AL.

2. Actual annual impingement data in total pounds of fishes impinged

Impingement data collected from October 1, 2016 to September 30, 2017 was used to derive the estimated pounds of fish impinged per volume of water for Units 1&2, Units 3&4, and Units 5&6. The actual cooling water flow data for the period from October 1, 2016 to September 30, 2017 for each generating unit pair was multiplied by the impingement rate to derive the estimated impingement biomass in pounds.

Using the method described above, the resulting fish impingement biomass from October 1, 2016 to September 30, 2017 is:

Units 1 & 2 Intake (to discharge EFF-001) = 144.7 lbs

Units 3 & 4 Intake (to discharge EFF-002) = 256.77 lbs

Units 5 & 6 Intake (to discharge EFF-003) = 42.63 lbs

AES-AL Station Total Estimate = 444.1 lbs

If you have questions regarding this submittal, please contact Coury McKinlay, AES Southland Environmental Manager at (562) 493-7863 or coury.mckinlay@aes.com.

Sincerely

Weikko Wirta

AES West Complex Operations Manager