



State Water Resources Control Board

January 18, 2022

Mr. Mark Miller
Market Business Leader, AES Southland
690 North Studebaker Road
Long Beach, CA 90803

Dear Mr. Miller:

RE: INVOICE FOR THE 2019-2020 INTERIM MITIGATION PERIOD FOR REDONDO BEACH GENERATING STATION - ONCE-THROUGH COOLING POLICY

This letter serves as an invoice for Redondo Beach Generating Station's interim mitigation payment for the operating period of October 1, 2019, through September 30, 2020 (2019-2020 interim mitigation period). The final determination calculating the interim mitigation payment is included as Attachment A.

The State Water Resources Control Board's (State Water Board) Statewide Water Quality Control Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling (Once-Through Cooling or OTC Policy) requires owners or operators of existing power plants to implement measures to mitigate interim impingement and entrainment impacts resulting from their cooling water intake structures. The interim mitigation period commenced on October 1, 2015, and continues up to and until owners or operators achieve final compliance with the OTC Policy. Section 2.C(3) of the OTC Policy provides options for demonstrating compliance with the interim mitigation requirements.

As stated in the 2015-2016 Final Determination for Redondo Beach Generating Station¹, AES Southland elected to comply with the interim mitigation requirements in Section 2.C(3)(b) of the OTC Policy. Under this option, AES Southland demonstrates compliance with the interim mitigation requirements by providing funding to the Ocean Protection Council or State Coastal Conservancy to fund appropriate mitigation projects.

The State Water Board calculated the interim mitigation payment for the 2019-2020 interim mitigation period using information provided by AES Southland in its January 12, 2021 information response letter. The annual interim mitigation payment is the sum of three components: an entrainment payment, an impingement payment, and a management and monitoring payment. The interim mitigation payment for Redondo Beach Generating Station for the operating period of October 1, 2019, through September 30, 2020, is \$301,726.84.

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

AES Southland has 60 days from receipt of this letter to make this payment to the Natural Resources Agency's Ocean Protection Council. When submitting this payment, include a cover letter that identifies the National Pollution Discharge Elimination System number for Redondo Beach Generating Station and copy Karen Mogus, Deputy Director of the Division of Water Quality at the State Water Board. Please make the check payable to the Natural Resources Agency and send to:

California Natural Resources Agency
Attn: Jenn Eckerle
715 P Street, 20th Floor
Sacramento, CA 95814
Reference Account: Ocean Protection Trust Fund

If you have questions regarding this invoice letter, please contact Jonathan Dolan at (916) 323-0880 (Jonathan.Dolan@waterboards.ca.gov), or Katherine Walsh at (916) 445-2317 (Katherine.Walsh@waterboards.ca.gov).

Sincerely,



Eileen Sobeck
Executive Director

Enclosure:
Attachment A - Final Determination for Redondo Beach Generating Station

cc via email:

Mr. Mark Gold, Mark.Gold@resources.ca.gov
Ms. Jenn Eckerle, Jenn.Eckerle@resources.ca.gov
Mr. Weikko Wirta, Weikko.Wirta@aes.com
Ms. Karen Mogus, Karen.Mogus@waterboards.ca.gov
Ms. Katherine Walsh, Katherine.Walsh@waterboards.ca.gov
Mr. Jonathan Dolan, Jonathan.Dolan@waterboards.ca.gov
Ms. Renee Purdy, Renee.Purdy@waterboards.ca.gov

ⁱ [2015-2016 Final Determination for Redondo Beach Generating Station.](#)

Attachment A – Final Determination for Redondo Beach Generating Station

**FINAL DETERMINATION TO APPROVE MITIGATION MEASURES
FOR THE WATER QUALITY CONTROL POLICY ON THE USE OF
COASTAL AND ESTUARINE WATERS FOR POWER PLANT COOLING:**

**REDONDO BEACH GENERATING STATION
OCTOBER 1, 2019, THROUGH SEPTEMBER 30, 2020**

Interim Mitigation Requirements and Determinations

The State Water Resources Control Board's (State Water Board) Water Quality Control Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling (also known as the Once-Through Cooling or OTC Policy) requires owners or operators of existing power plants to implement measures to mitigate interim impingement and entrainment impacts resulting from their cooling water intake structures. The interim mitigation period commenced on October 1, 2015, and continues up to and until owners or operators achieve final compliance with the OTC Policy.

The State Water Board approved Redondo Beach Generating Station's continued request to comply with the interim mitigation measures described in Section 2.C(3)(b) and Section 2.C(3)(e) of the OTC Policy in the Final Determination for the October 1, 2018 to September 30, 2019 interim mitigation period (2018-2019 Final Determination).

In the sections below, the State Water Board calculated Redondo Beach Generating Station's interim mitigation payment for October 1, 2019, through September 30, 2020 (also known as the 2019-2020 determination period). This calculation is consistent with the methods and calculations applied in the 2018-2019 Final Determination. Consistent with Resolution No. 2015-0057ⁱ and the recommendations in the Expert Review Panel's Final Reportⁱⁱ, the interim mitigation payment is comprised of an entrainment payment, an impingement payment, and a management and monitoring payment.

Interim Mitigation Payment Calculation for Redondo Beach Generation Station

Entrainment Payment Calculation

To calculate the portion of the interim mitigation payment to offset entrainment impacts, the State Water Board used the default average cost of entrainment determined in the Expert Review Panel's Final Report. Consistent with Resolution No. 2015-0057 and the Expert Review Panel's Final Report, the State Water Board used a three percent escalator to update the average cost of entrainment from the 2018-2019 Final Determination to 2020 dollars to account for inflation. The resulting average default entrainment cost for October 1, 2019, through September 30, 2020, increased from \$5.17 per million gallons (MG) to \$5.33/MG:

$$(\$5.17/MG \times 0.03) + \$5.17/MG = \$5.33/MG$$

In its January 12, 2021 letter, AES Southland provided the intake volume for Units 5, 6 and 8 for the 2019-2020 determination period of 47,173.69 MG. Unit 7 was retired on September 30, 2019. The State Water Board verified the intake volume with the data submitted in the National Pollution Discharge Elimination System permit monitoring reports for Redondo Beach Generating Station.

To calculate the entrainment payment, the State Water Board multiplied the intake volume by the updated average default cost of entrainment:

$$\$5.33/MG \times 47,173.69 \text{ MG} = \$251,435.77$$

Impingement Payment Calculation

In its January 12, 2021 letter, AES Southland provided the total fish impingement biomass for Units 5, 6 and 8 for the 2019-2020 determination period of 4.08 pounds. The State Water Board calculated the impingement payment using the total pounds of fish impinged multiplied by the average indirect economic value of the fisheries as determined in the Expert Review Panel's Final Report of \$0.80 per pound:

$$\$0.80/\text{pound} \times 4.08 \text{ pounds} = \$3.26$$

Management and Monitoring Payment Calculation

The State Water Board calculated the management and monitoring payment by taking twenty percent of the sum of the entrainment and impingement payments:

$$0.20 \times (\$251,435.77 + \$3.26) = \$50,287.81$$

State Water Board's Final Determination for Redondo Beach Generating Station

Based on the sum of the entrainment, impingement, and management and monitoring payment calculations, the total payment to fulfill the interim mitigation obligation for AES Southland's Redondo Beach Generating Station for the interim mitigation period of October 1, 2019, to September 30, 2020, is \$301,726.84.

$$\$251,435.77 + \$3.26 + \$50,287.81 = \$301,726.84$$

ⁱ State Water Board Resolution No. 2015-0057.

<https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2015/rs2015_0057.pdf>

ⁱⁱ Final Report from the Expert Review Panel.

<https://www.waterboards.ca.gov/water_issues/programs/ocean/desalination/docs/erp_intake052512.pdf>