

GAVIN NEWSOM GOVERNOR JARED BLUMENFELD SECRETARY FOR ENVIRONMENTAL PROTECTION

State Water Resources Control Board

SEP 09 2019

Ms. Jennifer Didlo President, AES Southland 690 North Studebaker Road Long Beach, CA 90803

Dear Ms. Didlo:

RE: INVOICE FOR THE 2017-2018 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, 2017, through September 30, 2018 (2017-2018 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. This option 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 2017-2018 interim mitigation period using information provided by AES Southland in its December 26, 2018 information response letter². The annual interim mitigation payment is the

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



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, 2017, through September 30, 2018, is \$299,959.86.

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, 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 1416 9th Street, Suite 1311 Sacramento, CA 95814 Reference Account: Ocean Protection Trust Fund

If you have questions regarding this invoice letter, please contact Julie Johnson at (916) 341-5687 (Julie.Johnson@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:

Mr. Mark Gold Executive Director Ocean Protection Council 1416 9th Street, Suite 1311 Sacramento, CA 95814

Ms. Jenn Eckerle Deputy Director Ocean Protection Council 1416 9th Street, Suite 1311 Sacramento, CA 95814 cc via email:

Mr. Weikko Wirta, <u>Weikko.Wirta@aes.com</u> Mr. Jonathan Bishop, <u>Johnathan.Bishop@waterboards.ca.gov</u> Ms. Karen Mogus, <u>Karen.Mogus@waterboards.ca.gov</u> Mr. Michael Lauffer, <u>Michael.Lauffer@waterboards.ca.gov</u> Ms. Marleigh Wood, <u>Marleigh.Wood@waterboards.ca.gov</u> Mr. Phillip Crader, <u>Phillip.Crader@waterboards.ca.gov</u> Ms. Rebecca Fitzgerald, <u>Rebecca.Fitzgerald@waterboards.ca.gov</u> Ms. Renee Purdy, Renee.Purdy@waterboards.ca.gov

¹ 2015-2016 Final Determination for Redondo Beach Generating Station: <u>https://www.waterboards.ca.gov/water_issues/programs/ocean/cwa316/docs/redondobe</u> <u>ach_1516mitigation_letter.pdf</u>

² AES Southland's December 26, 2018 Information Response Letter: <u>https://www.waterboards.ca.gov/water_issues/programs/ocean/cwa316/docs/cwa_april/</u> <u>rb_im1718.pdf</u> 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, 2017 THROUGH SEPTEMBER 30, 2018

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 Determination¹ for the October 1, 2016 to September 30, 2017 interim mitigation period (2016-2017 Final Determination). Consistent with Resolution No. 2015-0057² and the recommendations in the Expert Review Panel's Final Report³, the interim mitigation payment is comprised of an entrainment payment, an impingement payment, and a management and monitoring payment.

In the sections below, the State Water Board has calculated Redondo Beach Generating Station's interim mitigation payment for October 1, 2017, through September 30, 2018 (also known as the 2017-2018 determination period). This calculation is consistent with the methods and calculations applied in the 2016-2017 Final Determination.

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 2016-2017 Final Determination to 2018 dollars to account for inflation. The resulting average default entrainment cost for October 1, 2017, through September 30, 2018 increased from \$4.87 per million gallons (MG) to \$5.02/MG:

(\$4.87/MG×0.03)+\$4.87/MG=\$5.02/MG

In its December 26, 2018 letter⁴, AES Southland provided the intake volume for Units 5 through 8 for the 2017-2018 determination period of 49,791.26 MG. The State Water Board verified 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:

\$5.02/MG×49,791.26 MG=\$249,952.13

Impingement Payment Calculation

In its December 26, 2018 letter, AES Southland provided the total fish impingement biomass for Units 5 through 8 for the 2017-2018 determination period of 18.019 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/pound×18.019 pounds=\$14.42

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×(\$249,952.13+\$14.42)=\$49,993.31

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, 2017, to September 30, 2018, is \$299,959.86.

\$249,952.13+\$14.42+\$49,993.31=\$299,959.86

<<u>https://www.waterboards.ca.gov/water_issues/programs/ocean/cwa316/docs/interim_mitigation/fdi1617_redondo.pdf</u>

¹ State Water Board 2016-2017 Final Determination for Redondo Beach Generating Station.

² State Water Board Resolution No. 2015-0057.

<<u>https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2015/rs2</u> 015_0057.pdf>

³ Final Report from the Expert Review Panel.

<<u>https://www.waterboards.ca.gov/water_issues/programs/ocean/desalination/docs/erp_i</u> <u>ntake052512.pdf</u>>

⁴ Letter from Weikko Wirta, AES Southland, to Karen Larsen, State Water Board on December 26, 2018.

<<u>https://www.waterboards.ca.gov/water_issues/programs/ocean/cwa316/docs/cwa_april</u>/rb_im1718.pdf>