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8	BEFORE THE HEARING BOARD OF THE	
9	SOUTH COAST AIR QUALITY M	IANAGEMENT DISTRICT
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11	In the Matter of	CASE NO. 1262-115
12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT,	[PROPOSED] FINDINGS AND DECISION FOR AN ORDER FOR
13	Petitioner,	ABATEMENT
14 15	vs.	District Rule 1470
16	SOUTHERN CALIFORNIA EDISON – PEBBLY BEACH GENERATING STATION	Date: January 25, 2024 Time: 9:30 a.m. Place: Hearing Board
17 18	Facility ID No. 4477 Respondent.	South Coast Air Quality Management District 21865 Copley Drive Diamond Bar, CA 91765
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20	FINDINGS AND DECISION OF	THE HEADING BOADD
21	FINDINGS AND DECISION OF THE HEARING BOARD This patition for a Stimulated Order for A betament was beard on January 4, 2022. Sontember	
22	This petition for a Stipulated Order for Abatement was heard on January 4, 2022, September	
23	1, 2022, January 24, 2023, July 25, 2023, and January 25, 2024, pursuant to notice and in accordance with the provisions of California Health and Safety Code Section 40823 and District Rule 812. The	
24	following members of the Hearing Board were present: Cynthia Verdugo-Peralta, Chair; Robert	
25	Pearman, Vice-Chair; Mohan Balagopalan; Dr. Allan Bernstein (1/4/22, 9/1/22, 1/24/23); Dr. Jerry	
26	P. Abraham (7/25/23, 1/25/24); and Micah Ali. Petitioner, Executive Officer, was represented by	
27	Mary J. Reichert, Senior Deputy District Counsel. Respondent, Southern California Edison – Pebbly	
28	1	-
	SCE – Pebbly Beach – Findings and I	Decision (Case No. 1262-115)

Beach Generating Station (hereinafter referred to as "Respondent" or "SCE"), was represented by 1 2 Kelly Henderson. The public was given the opportunity to testify. The matter was submitted, and 3 evidence received. The Hearing Board finds and decides as follows:

FINDINGS OF FACT

1. Petitioner is a body corporate and politic established and existing pursuant to Health 6 and Safety Code §40000, et seq. and §40400, et seq., and is the sole and exclusive local agency with 7 the responsibility for comprehensive air pollution control in the South Coast Basin.

2. Respondent owns and operates the facility located at 1 Pebbly Beach Road, Avalon, 8 9 CA 90704 ("Facility") within the District's jurisdiction and subject to the District's regulations.

10 3. Respondent maintains and is responsible for the operation of equipment described in SCAQMD A/N 595203 as INTERNAL COMBUSTION ENGINE, LEAN BURN, NON-11 EMERGENCY, UNIT NO. 15, DIESEL FUEL, EMD, MODEL 16-710G4B, TWO CYCLE, WITH 12 AFTERCOOLER, TURBOCHARGER, 3900 HP WITH GENERATOR, 2800 KWA, hereinafter 13 14 "Unit 15." Unit 15 is vented to air pollution control equipment consisting of a selective catalytic 15 reduction module and a CO oxidation catalyst module, operated pursuant to SCAQMD A/N 548965. 16 Unit 15 is one of six diesel engines providing electric power to Santa Catalina Island.

4. 17 In 2017, Respondent performed a zero-time overhaul on Unit 15, which resulted in a "reconstruction" of the engine. Under various federal and SCAQMD rules, including Rule 18 19 1470(b)(47)(B), a reconstructed engine is considered a "new" engine if the costs of reconstruction 20 equal 50% or more of the lowest-available purchase price of a new, comparably equipped engine. 21 The costs of the 2017 zero-time overhaul of Unit 15 exceeded this 50% threshold, and thus Unit 15 22 was subject to the emission limits and other requirements for "new" engines under those federal and SCAQMD rules. 23

24 5. When the permit to construct was issued for the zero-time overhaul in 2017, the permit 25 conditions related to Rule 1470 were not changed from those in the then-existing permit to operate, 26 and the 0.01 g/bhp-hr particulate matter (PM) emission limit for new engines under Rule 27 1470(c)(4)(A) was inadvertently omitted from the emission limits applicable to Unit 15 in the permit.

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6. Petitioner and Respondent agree that the 0.01 g/bhp-hr PM emission limit for "new"
 engines under Rule 1470 should have been included in the permit conditions applicable to Unit 15
 after the 2017 zero-time overhaul. However, even if a permit were issued correcting the omission,
 Unit 15 would not have been able to meet the 0.01 g/bhp-hr PM emission limit, and still cannot.

7. Even though it cannot meet the applicable PM emission limit under Rule 1470, Unit
15 is the lowest-emitting engine for NOx and CO among the six engines at the Facility, and
preferential operation of Unit 15 allows the Facility to meet a lower facility-wide NOx limit than
would otherwise be possible. While Respondent could operate the other five engines located at the
Facility in lieu of Unit 15, this would increase overall emissions and Respondent would be unable to
comply with the facility-wide NOx limit in its Title V permit.

8. Petitioner and Respondent agree that a stipulated order for abatement should be issued
to assure that (i) operation of the Equipment be done with appropriate conditions, including
monitoring, recordkeeping, and reporting to the District; and (ii) a feasible plan for achieving
compliance be developed, approved, and implemented as expeditiously as practicable.

9. As part of the considerations impacting this Order for Abatement process is the Clean
Fuels Policy (CFP) of South Coast AQMD.

17 10. Respondent has complied with the conditions issued by this Board at the July 25,
18 2023, status update and modification hearing.

19 11. As of January 1, 2024, Rule 1135 prohibits the installation of new diesel internal 20 combustion engines on Santa Catalina Island. Therefore, under the current version of the rule, South 21 Coast AQMD cannot issue the permits for, and Respondent cannot install, any new diesel-fueled 22 internal combustion engines at the Facility. Rule 1135 is in the rule amendment process and is currently scheduled to go before the Governing Board in summer of 2024. The proposed amendments 23 24 are anticipated to address the January 1, 2024 diesel engine installation prohibition and the current 25 mass emission NOx limits for Santa Catalina Island electricity generating facilities, including the Facility. 26

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CONDITIONS AND INCREMENTS OF PROGRESS

FROM ORDER ISSUED JANUARY 4, 2022

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SCE – Pebbly Beach – Findings and Decision (Case No. 1262-115)

- Respondent shall provide the following to South Coast AQMD (cperri@aqmd.gov)
 no later than January 4, 2022:
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- a. The manufacturer specification sheet showing the maximum allowable back pressure for Unit 15:
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- b. The current measured back pressure on Unit 15 at minimum, average, and maximum load;

c. All correspondence to date from Johnson Matthey and EMD concerning SCE's inquiry as to the feasibility of a diesel particulate filter (DPF) on Unit 15.

9 2. Respondent shall begin to investigate the feasibility of installing an active DPF on 10 Unit 15 by contacting at least one active DPF manufacturer no later than January 4, 2022. 11 Respondent shall provide South Coast AQMD (cperri@aqmd.gov) with all correspondence from 12 the DPF manufacturer concerning that inquiry within one week after the initial contact and every 13 two weeks thereafter as long as discussions with the DPF manufacturer are continuing. Respondent 14 shall provide a report to South Coast AQMD (cperri@aqmd.gov) by January 18, 2022, detailing the 15 findings of the investigation of the feasibility of installing an active DPF on Unit 15, including all 16 technical details relating to the conclusion as to feasibility, any supporting documentation, and any 17 other information necessary for South Coast AQMD to evaluate the validity of the conclusion.

If either an active or passive DPF is jointly determined by South Coast AQMD and
 SCE to be technically feasible for Unit 15, Respondent shall submit required permit applications no
 later than 14 days after the feasibility determination is made, with expedited processing requested
 and paid for. Respondent shall place a purchase order for the DPF within 7 days of receipt of the
 South Coast AQMD permit, and shall request and pay for expedited processing by the manufacturer,
 if available. Respondent shall commence installation of the DPF on Unit 15 within 10 days of receipt
 of the DPF and shall achieve final compliance no later than 60 days after installation is commenced.

4. If SCE and South Coast AQMD do not reach agreement as to whether either an active
or passive DPF is feasible, SCE and South Coast AQMD agree to bring the issue back to the Hearing
Board for consideration.

1	5. Beginning January 10, 2022, Respondent shall: (a) assess the feasibility and the	
2	environmental, service, and operational impacts of increasing the use of the microturbines that are	
3	both permitted and currently operational at the Pebbly Beach facility; and (b) shall report the results	
4	of that assessment to the South Coast AQMD by March 18, 2022. The assessment shall include a	
5	conclusion regarding whether at least 1,270,000 kWh of power can be generated by the	
6	microturbines each calendar year until Unit 15 is brought into compliance, and if not, the maximum	
7	kWh/year of electric power production that can be reasonably and reliably achieved using those	
8	microturbines.	
9	6. Respondent shall, by January 18, 2022, begin investigating the feasibility of the	
10	following:	
11	a. Using biodiesel or renewable diesel fuel for Unit 15 by contacting at least one	
12	biodiesel or renewable diesel supplier and provide South Coast AQMD with all	
13	correspondence from the biodiesel or renewable diesel supplier concerning that	
14	inquiry;	
15	b. Installing DPFs on all other engines at Pebbly Beach by contacting at least one DPF	
16	manufacturer and provide South Coast AQMD with all correspondence from the	
17	DPF manufacturer concerning that inquiry;	
18	c. Installing a 100kW-250kW fuel cell at the Pebbly Beach facility;	
19	d. Installing a 100kW-400kW PV solar system at the Pebbly Beach facility and provide	
20	South Coast AQMD with the preliminary results of that investigation.	
21	7. By April 1, 2022, Respondent shall submit to the South Coast AQMD	
22	(cperri@aqmd.gov and mreichert@aqmd.gov) a report and preliminary action plan describing	
23	options determined to be infeasible and evaluating feasible options resulting from the analyses	
24	described in Conditions 5 and 6 (and any other options or combinations of options considered by	
25	Respondent) and outlining the strategy selected from these options. In evaluating these options and	
26	designing a strategy, Respondent shall examine whether some subset or smaller version of the	
27	option(s) would be feasible and shall endeavor in good faith to find one or more options feasible for	
28	implementation. The report shall include for all options considered, whether determined to be	
	5 SCE - Debble Devel - Eindinger of Devision (Corr No. 12(2)115)	
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feasible or infeasible, all technical details relating to the analysis, all supporting documentation, and
 any other information necessary for South Coast AQMD to independently evaluate Respondent's
 determinations and conclusions.

8. By July 8, 2022, Respondent shall submit to the South Coast AQMD
(cperri@aqmd.gov and mreichert@aqmd.gov) a final plan including detailed descriptions of the
proposed solution and associated increments of progress and deadlines by which each of the stated
milestones shall be met. Respondent shall offer to consult with the South Coast AQMD by early
August 2022.

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9. If the South Coast AQMD does not object to Respondent's final selection by August
5, 2022, Respondent shall submit complete applications to South Coast AQMD no later than August
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19, 2022 for a Permit to Construct as necessary for any new equipment needed to achieve the
selection. Respondent shall request the application be reviewed on an expedited basis and pay all
applicable fees at the time the application is submitted. Respondent shall also submit and request
and pay for expedited processing, if available, any required applications to local, state, or federal
agencies for necessary permits by August 19, 2022.

16 10. Respondent shall complete and issue all necessary purchase orders for any equipment
17 necessary to achieve the strategy set forth in Conditions 8 and 9 within 30 days of the issuance of
18 the last of all required agency approvals, including the South Coast AQMD Permit to Construct.

19 11. If Respondent will be implementing a plan developed under Conditions 5-10,
20 Respondent shall install all necessary equipment and have the equipment fully operational within
21 six months of either receiving a South Coast AQMD Permit to Construct and all necessary permits
22 from other agencies, or receiving the required equipment, whichever comes later.

12. Respondent has complied with Condition/Increment of Progress Nos. 1 through 10
(inclusive) of the Findings and Decision and Order of this Board adopted January 4, 2022.
Respondent anticipates that it will be able to demonstrate compliance with Condition/Increment of
Progress No. 11 by December 31, 2022. After evaluation of the potential options, Respondent chose
to proceed with installing a catalyst on Unit 15 to meet the emission requirements of Rule 1470.
Respondent expects to begin the replacement of Unit 15's catalyst in September 2022, after which

two emissions source tests must be completed (the first within 90 days of installation and the second
 within 90 days of the first test). The permit expires on March 31, 2023. If the installation can be
 successfully completed in September 2022, Respondent expects to complete the required emissions
 source tests by December 31, 2022. If the installation is delayed beyond September 2022,
 Respondent will notify the District by September 30 and provide an estimated installation date.

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CONDITIONS AND INCREMENTS OF PROGRESS

FROM ORDER ISSUED JANUARY 23, 2023

1. Respondent shall complete installation of the catalyst on Unit 15 by September 30,
2022, unless it notifies the District by September 30, 2022, that it requires additional time. Such
notification shall be made to <u>cperri@aqmd.gov</u>, <u>mreichert@aqmd.gov</u>, and ishine@aqmd.gov and
shall include the reasons requiring an extension of time for installation. If such a notification is made,
Respondent shall complete installation of the catalyst on Unit 15 by October 21, 2022.

2. Respondent shall complete two emissions source tests on Unit 15 after the installation
of the catalyst. The first shall be completed within 90 days of installation of the catalyst, and the
second shall be completed at least 60 days, but no later than 90 days, of the first test (or re-test, if
such a re-test is performed under condition 4(a)).

Respondent shall request expedited preliminary results from both source tests of Unit
 15 with the newly installed catalyst. Respondent agrees to notify the District (cperri@aqmd.gov,
 mreichert@aqmd.gov, and ishine@aqmd.gov) of the results within 5 days of receipt of those
 preliminary results.

4. If the preliminary results from the first source test show that Unit 15 is not meeting
the requirements of Rule 1470, Respondent shall determine whether actions can be taken such that a
re-test may demonstrate compliance.

a) If Respondent believes steps can be taken such that a re-test would demonstrate
compliance, Respondent shall, within 10 days of the preliminary test results,
provide South Coast AQMD with evidence that the reason the catalyst did not
reduce emissions to the required level is due to an issue that can be resolved with
equipment modifications prior to the re-test. Respondent shall perform any

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necessary actions and shall make all reasonable efforts to complete a re-test within 15 days of the original source test. Respondent shall request expedited preliminary test results from this re-test. If the preliminary results of the repeated source test show that Unit 15 is still not meeting the requirements of Rule 1470, within 60 days of receipt of the preliminary re-test results, Respondent shall comply with condition 4(c).

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 b) If Respondent believes no steps can be taken such that a re-test may demonstrate compliance, within 60 days of receipt of the preliminary test results, Respondent shall comply with condition 4(c).

c) If triggered, Respondent shall submit to the District (cperri@aqmd.gov, mreichert@aqmd.gov, and ishine@aqmd.gov) within 60 days Respondent's proposed plan and timeline to bring Unit 15 into compliance with District Rule 1470(c)(4)(A). Respondent shall not be obligated to commence procurement of a unit that cannot comply with Rule 1135 or the conditions of the Permit to Construct issued by the District. [Condition 4c was triggered and Respondent has submitted an application for a Permit to Constrict for a replacement generator for Unit 15].

17 5. If the first source test results (including a retest) show that Unit 15 is in compliance
18 with Rule 1470, but the second preliminary test results show that Unit 15 will not meet the
19 requirements of 1470, Respondent shall determine whether actions can be taken such that a re-test of
20 the second test may demonstrate compliance.

21 a) If Respondent believes steps can be taken such that a re-test would demonstrate 22 compliance, Respondent shall, within 10 days of the preliminary test results, 23 provide South Coast AQMD with evidence that the reason the catalyst did not 24reduce emissions to the required level is due to an issue that can be resolved, and 25 any equipment modifications planned for the re-test. Respondent shall perform 26 any necessary actions and shall make all reasonable efforts to complete a re-test 27 within 15 days of the second source test. Respondent shall request expedited 28 preliminary test results from this re-test. If the preliminary results of the repeated

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source test show that Unit 15 is still not meeting the requirements of Rule 1470, within 60 days of receipt of the preliminary re-test results, Respondent shall comply with condition 4(c).

6. No later than September 30, 2022, Respondent shall submit to the District
(cperri@aqmd.gov, mreichert@aqmd.gov, and <u>ishine@aqmd.gov</u>) the results of the grid stability
study, which shall include an analysis of the maximum percentage of inverter-based technology is
feasible at the Facility. [Further conditions for the grid stability study are as set forth below in the
Order, paragraphs 3 and 4].

7. No later than October 1, 2022, Respondent shall submit to the District
(cperri@aqmd.gov, mreichert@aqmd.gov, and ishine@aqmd.gov) the status of the design and
installation of 100 kW of solar photovoltaic panels on new carports at two locations at PBGS (the
west side of the main building and the east side of the main building over existing parking spaces
along the shoreline). Respondent shall complete installation of these solar photovoltaic panels no
later than January 31, 2026.

8. Nothing in this Order requires SCE to withdraw its pending application for a Permit
to Construct a third U.S. EPA Tier 4 Final-certified diesel generator (if Unit 15 cannot be brought
into compliance with Rule 1470 and must be removed from service).

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CONDITIONS AND INCREMENTS OF PROGRESS

FROM ORDER ISSUED JULY 25, 2023 (ORDER SIGNED AUGUST 8, 2023)

1. Respondent shall confer with District staff regarding whether it is required to re submit its application for a Permit to Construct a replacement generator for Unit 15. If the
 application must be resubmitted, Respondent shall do so no later than August 15, 2023.
 [Completed.]

24 2. Respondent shall, no later than August 4, 2023, provide the District
25 (cperri@aqmd.gov, mreichert@aqmd.gov, and <u>ishine@aqmd.gov</u>) with the Building and Safety
26 Department, Fire Code, and State Fire Marshal regulations upon which it is relying regarding the
27 operation and limitations of its propane storage tanks and propane fuel deliveries, including but not
28 limited to required distance from buildings and water suppression requirements. To the extent

1 Respondent is relying on verbal representations from the Fire Chief or other Authority Having 2 Jurisdiction, Respondent shall request no later than July 28, 2023, a written determination, decision, 3 or explanation from that entity explaining their conclusions regarding the propane storage tanks and propane fuel deliveries at the Facility. Respondent shall ask that this written explanation be provided 4 5 as quickly as possible and shall provide it to the District no later than two (2) business days after 6 receipt. [Completed.] 3. Respondent shall, as part of its grid reliability study, perform the following repower 7 scenarios using HOMER Pro® microgrid software using these configuration descriptions and 8 9 assumptions: [Completed.] 10 a. Assumptions for both configurations: i. 10% minimum charge on the existing battery system 11 12 ii. Load demand forecasted data for 2026 reflecting a peak of 6 MW and 13 approximately 31 GWh annual loading iii. Existing NaS BESS modeled as 1 MW / 7 MWH with a round-trip-14 15 efficiency of 85% 16 iv. Annual consumption of 500,000 gallons of diesel 17 v. Annual consumption of 2.1 million gallons of propane vi. No minimum spinning reserve requirement 18

19b. Configuration 1

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- i. Utility Scale Renewable PV System (30% of annual load)
 - ii. Three Tier 4 Final Diesel Generators (1.825 MW each)
- 22 iii. Existing NaS Battery System
 - iv. Five new battery systems (1 MW each)
 - v. Propane near zero emission (NZE) technology with a combined rating of at least 2.25 MW (65% of annual load)
 - c. Configuration 2
 - i. Utility Scale Renewable PV System (30% of annual load)
 - ii. Three Tier 4 Final Diesel Generators (1.825 MW each)
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 - SCE Pebbly Beach Findings and Decision (Case No. 1262-115)

1	iii. Existing NaS Battery System		
2	iv. Five new battery systems (1 MW each)		
3	v. Propane NZE technology with a combined rating of at least 2 MW (50% of		
4	annual load)		
5	d. If both parties agree an assumption is in whole, or in part, infeasible, they may		
6	mutually agree to an appropriate modification thereof. [Completed.]		
7	4. Respondent shall complete the grid reliability study and submit it to the District		
8	(cperri@aqmd.gov, mreichert@aqmd.gov, and ishine@aqmd.gov) no later than August 30, 2023,		
9	but on good cause at the request of the Respondent, the District may grant an extension to September		
10	29, 2023. [Completed.]		
11	5. Respondent shall, no later than August 4, 2023, provide the District		
12	(cperri@aqmd.gov, mreichert@aqmd.gov, and ishine@aqmd.gov) with records demonstrating the		
13	amount of propane fuel used for utility purposes on Catalina Island for the last three years.		
14	[Completed.]		
15	CONCLUSION		
16	1. The operation of the Equipment will result in a violation of the PM limit for "new"		
17	engines in District Rule 1470 whenever Unit 15 is operated.		
18	2. The issuance of the prayed-for Stipulated Order for Abatement is not expected to		
19	result in the closing or elimination of an otherwise lawful endeavor, but if it does result in such		
20	closure or elimination, it would not be without a corresponding benefit in reducing air contaminants.		
21	3. This Stipulated Order for Abatement is not intended to be nor does it act as a		
22	variance.		
23	4. The issuance of this Stipulated Order for Abatement upon a fully noticed hearing		
24	will not constitute a taking of property without due process of law.		
25	5. There is good cause to issue this Stipulated Order for Abatement to assure that		
26	operation of the Equipment is done in a manner that will minimize and mitigate excess emissions		
27	and bring the Facility into compliance as expeditiously as practicable.		
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<u>ORDER</u>		
THEREFORE, based on these findings of fact and good cause appearing, the Hearing Board		
hereby orders Respondent to immediately cease and desist from violating District Rule 1470, or in		
the alternative comply with the following conditions and increments of progress:		
1. Respondent shall, no later than February 9, 2024, submit to the District		
(cperri@aqmd.gov, mreichert@aqmd.gov, and ishine@aqmd.gov) the following information:		
a. Data over the past five years related to daily temperature impacts on maximum		
propane storage tank fill.		
b. Information and/or documentation from the propane storage tank		
manufacturer(s), propane storage tank maintenance vendor(s), or other impartial		
third parties upon which SCE is relying regarding maximum propane tank levels		
during propane tank maintenance events and at elevated temperatures (with		
specific temperature reference points as relevant).		
c. Records of the three most recent propane tank maintenance events which		
required reduced propane tank levels performed at the facility.		
d. Records from the vendor(s) performing the propane tank maintenance of the		
date(s) of the last three propane tank maintenance events.		
e. Documents supporting the recommended and/or required schedule for propane		
tank maintenance provided by the propane tank manufacturer and/or other source		
relied upon by Respondent.		
f. Data and explanation as to why the propane tank levels were low in late 2022 if		
propane tank maintenance was not being performed at that time.		
2. The Parties shall return to the Hearing Board for a status and modification hearing		
on November 7, 2024, or as soon thereafter as a hearing may be scheduled.		
3. The Hearing Board may modify this Order for Abatement without the stipulation of		
the parties upon a showing of good cause therefore, and upon making the findings required by Health		
and Safety Code Section 42451(a) and District Rule 806(a). Any modification of the Order shall be		
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made only at a public hearing held upon 10 days published notice and appropriate written notice to
 Respondent.

4. Unless terminated earlier, the Hearing Board shall retain jurisdiction over this matter
until March 31, 2026, at which time this Order for Abatement, if it has not been properly extended,
shall expire.

5. This Order for Abatement does not act as a variance, and Respondent is subject to
all rules and regulations of the District, and with all applicable provisions of California law. Nothing
herein shall be deemed or construed to limit the authority of the District to issue Notices of Violation,
or to seek civil penalties, criminal penalties, or injunctive relief, or to seek further orders for
abatement, or other administrative or legal relief.

FOR THE BOARD: _____

DATED:

14 Reviewed by Kelly Henderson, Attorney for Respondent

16 Prepared by Mary J. Reichert, Attorney for Petitioner