

1 BRIAN S. HAUGHTON (SBN 111709; [bhaughton@bargcoffin.com](mailto:bhaughton@bargcoffin.com))  
2 R. MORGAN GILHULY (SBN 133659; [mgilhuly@bargcoffin.com](mailto:mgilhuly@bargcoffin.com))  
3 DAVID M. METRES (SBN 273081; [dmetres@bargcoffin.com](mailto:dmetres@bargcoffin.com))  
4 BARG COFFIN LEWIS & TRAPP, LLP  
5 600 Montgomery Street, Suite 525  
6 San Francisco, California 94111  
7 Telephone: (415) 228-5400  
8 Facsimile: (415) 228-5450

9 Attorneys for Petitioner  
10 Wine Institute

11  
12 BEFORE THE HEARING BOARD OF THE SANTA BARBARA COUNTY  
13  
14 AIR POLLUTION CONTROL DISTRICT  
15

16 IN RE: PETITION OF WINE  
17 INSTITUTE FOR REVIEW OF ATC  
18 ISSUED TO CENTRAL COAST WINE  
19 SERVICES

20 FINAL AUTHORITY TO CONSTRUCT  
21 15044; FID 11042; SSID 10834.

22 IN RE: PETITION OF WINE  
23 INSTITUTE FOR REVIEW OF ATC  
24 ISSUED TO CENTRAL COAST WINE  
25 SERVICES

26 FINAL AUTHORITY TO CONSTRUCT  
27 MODIFICATION 15044-01; FID 11042;  
28 SSID 10834.

H.B. Case No. 2017-21-AP;  
H.B. Case No. 2017-24-AP

**PETITIONER WINE INSTITUTE'S  
OPENING BRIEF**

Date: TBD  
Time: TBD  
Place: TBD

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1       **I.       Introduction**

2               In this hearing, Wine Institute challenges a specific legal determination that the Air  
3       Pollution Control District made in issuing a permit to Central Coast Wine Services (CCWS). The  
4       District determined that the emissions controls that it required in the permit were “achieved in  
5       practice.” That determination means that the emissions controls have been conclusively  
6       determined to be effective in reducing emissions over an adequate testing period, and that no  
7       further examination of their feasibility or cost is required—they may now be required at every  
8       similar facility in California that applies for a similar permit.

9               The problem with this determination is that the emissions controls in question have never  
10       been used at any winery, anywhere, in the manner that the District is requiring them to be used at  
11       CCWS. And they have certainly not been used or studied sufficiently to reach a conclusion that  
12       they are “achieved in practice” such that no further study of their effectiveness or cost is  
13       necessary. CCWS’s application for its permit, the negotiations between the District and CCWS  
14       over the permit, and the permit itself all demonstrate that the District does not know whether the  
15       emissions controls will perform as required, because they have never been used as the District  
16       has required them to be used in the permit.

17              It is important to note that Wine Institute does *not* challenge the District’s authority to  
18       require CCWS to use the emissions controls. The District has authority, under the law and its  
19       rules, to require CCWS to use the emissions controls as the Best Available Control Technology  
20       (BACT), without making an “achieved in practice” determination. If the District had issued the  
21       permit to CCWS without making an “achieved in practice” determination, the District could have  
22       required the use of the same emissions controls and placed exactly the same limits on CCWS’s  
23       emissions as under the permit that Wine Institute challenges here. There would be no additional  
24       emissions in this District.

25              The District’s unnecessary “achieved in practice” determination should be reversed  
26       because it will have a dramatic and negative effect on the wine industry in California. Wine  
27       Institute estimates that the District’s determination could impose costs of hundreds of millions of

dollar or more on winemakers in California. Those costs would be incurred implementing emissions controls that have never been used over a full fermentation cycle at any California winery, and that have not been shown to be “achieved in practice.”

The Hearing Board should grant Wine Institute’s petitions, and direct the District to revoke the permit issued to CCWS and issue a new permit that does not contain an “achieved in practice” determination. The Hearing Board should also direct staff to remove the “achieved in practice” determination from the California Air Resources Board’s BACT Clearinghouse.

## **II. Factual Background**

### **A. Wine Production and Emissions Requirements**

In the winemaking process, yeast metabolizes and ferments the sugar in grape juice to produce ethanol, an alcohol. Some of that ethanol evaporates and is emitted into the air. The California Air Resources Board (CARB) has calculated “emissions factors” that predict the average ethanol emissions from the winemaking process. However, there is substantial variation in emissions when different types of wine are made. Red wine fermentation, for example, produces ethanol emissions that are approximately two and a half times higher than emissions from white wine fermentation.<sup>1</sup>

Ethanol is a “volatile organic compound” or “VOC”—a carbon-based chemical that evaporates readily. Some VOCs, in the presence of sunlight, promote the formation of ozone, a pollutant that is regulated under state and federal law. These VOCs are called “Reactive Organic Compounds” or “ROCs.” The District limits the amount of ROCs that any new or modified facility may emit before the facility is required to use emissions controls to reduce those emissions.

There is a specific standard that applies to the emissions controls that a new or modified facility must implement if it emits ROCs above a threshold. Because the District has not met the

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<sup>1</sup> Exhibit 41, California Air Resources Board, Wine Fermentation Emissions Factors (2005) at 5.1-1, WI0997 (providing estimated emissions factors of 6.2 pounds of ethanol per 1000 gallons produced for red wine fermentation, and 2.5 pounds of ethanol per 1000 gallons produced for white wine fermentation).

1 State standard for ozone (the District is in “non-attainment”), new or modified facilities are  
2 required to implement the “Best Available Control Technology” or “BACT.” (A less stringent  
3 standard applies to districts that meet the State and federal ozone standards.)

4 BACT is defined in the District’s Rule 802.D.2 as follows:

5 2. For any stationary source subject to a nonattainment pollutant Best  
6 Available Control Technology requirement, Best Available Control  
7 Technology shall be the more stringent of:

8 a. The most effective emission control device, emission limit, or  
9 technique which has been *achieved in practice* for the type of  
10 equipment comprising such stationary source; or

11 b. The most stringent limitation *contained in any State*  
12 *Implementation Plan*; or

13 c. Any other emission control device or technique determined after  
14 public hearing to be *technologically feasible and cost-effective* by  
15 the Control Officer.<sup>2</sup>

16 Note that there are three “prongs” to the BACT definition, the first based on an “achieved  
17 in practice” determination; the second (which is not relevant here) based on the  
18 requirements of a State Implementation Plan; and the third based on a determination by  
19 the Control Officer that emissions controls are “technologically feasible and cost-  
20 effective.”

21 **B. CCWS**

22 CCWS is a “custom-crush winery” where grape growers bring their harvest to process,  
23 ferment, and bottle their wines. CCWS does not produce its own wines, but instead charges fees  
24 to growers that use its facilities.

25  
26  
27 <sup>2</sup> Exhibit 33, Rule 802.D.2, WI0917 (emphasis added).

1 The wine-making season lasts only about two to three months each year. During the  
2 harvest, wine makers bring their grapes to CCWS where they are crushed and then fermented in  
3 large metal tanks. CCWS has approximately 148 storage and fermentation tanks at its facility.  
4 The tanks range in size from a few hundred gallons to just over 20,000 gallons. CCWS refers to  
5 these tanks by number, and the permits at issue address primarily the larger 400-series tanks.

6 Although CCWS is one of the larger wine-making facilities in Santa Barbara County, it is  
7 much smaller than the large wine-making operations in the Central Valley, where some facilities  
8 have tanks exceeding 300,000 gallons in size.

### 9 C. The Emissions Control Systems

10 Beginning in 2013, CCWS began to use emissions control systems at its winery. CCWS  
11 used two types of emissions control devices. The first was manufactured by NohBell and is called  
12 NoMoVo (presumably short for “no more VOCs”). The NoMoVo system is connected to a  
13 fermentation tank with a hose. Gases escaping from the tank pass through the hose to a wet  
14 scrubber, which uses a slurry to capture ethanol. The slurry is shipped off-site for disposal.

15 CCWS began using its first NoMoVo system in September 2013 and a second in 2015.  
16 The NoMoVo systems are portable. CCWS used them on an as-needed basis, switching from  
17 tank to tank, to maintain ROC emissions below a District-imposed limit of 55 pounds per day.  
18 According to the District’s AIP Determination memorandum,<sup>3</sup> the NoMoVo systems have  
19 operated 147 cumulative days at CCWS. However, the NoMoVo systems were used on only a  
20 few tanks at a time. They were not used during the beginning or end of the wine fermentation  
21 season, and were never used on any tank over a full fermentation cycle. The NoMoVo systems  
22 were never used for red wine fermentation in 400-series tanks.

23 The second emissions control system was manufactured by EcoPAS, LLC. The EcoPAS  
24 system is also connected to fermentation tanks with a hose, and uses a chiller to condense water  
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26 <sup>3</sup> Exhibit 3, ATC 15044, Attachment E, Achieved in Practice Determination for Wine Fermentation Emission  
27 Control Technologies, Memorandum from D. Harris (District) to M. Goldman (District) (Aug. 18, 2017), at p. 5,  
WI0181.



1 and ethanol emitted from the tanks. The condensate is captured and shipped off-site for disposal.  
2 The EcoPAS system is not portable. It is connected through a manifold to several tanks at once,  
3 and may be connected or disconnected from any of those tanks by opening or closing manifold  
4 valves.

5 The EcoPAS system operated at CCWS during the 2015 and 2016 fermentation seasons  
6 for 108 cumulative days on approximately 20 fermentation tanks.<sup>4</sup> As with the NoMoVo system,  
7 the EcoPAS system was not used during the beginning or end of the wine fermentation season,  
8 and was never used on any tank over a full fermentation cycle. According to the District's AIP  
9 Determination memorandum, the EcoPAS system was never used for red wine fermentation or on  
10 smaller 100-series tanks.

11 **D. The Permits**

12 By 2016, ten of CCWS's 400-series tanks were permitted for white-wine fermentation or  
13 wine storage only, and 30 others were permitted for wine storage only. None of the 400-series  
14 tanks were permitted for red wine fermentation. These limits were imposed so that CCWS could  
15 remain below a District-imposed emissions limit, but they were having a negative effect on  
16 CCWS's business.<sup>5</sup>

17 On April 26, 2017, CCWS applied for an "authority to construct" (ATC) permit to  
18 authorize modifications to its facility. CCWS applied for authority to use all 40 of its 400-series  
19 tanks for red or white wine fermentation, as well as storage. CCWS also sought permission to  
20 build a barrel-storage room for up to 2500 oak barrels.

21 In preparing its permit application, CCWS began to prepare an analysis of whether there  
22 were "technologically feasible and cost-effective" emissions controls that should be considered  
23 as BACT. That process was cut short, however, when the District informed CCWS that it would

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25 <sup>4</sup> Exhibit 3, ATC 15044, Attachment E, Achieved in Practice Determination for Wine Fermentation Emission  
26 Control Technologies Memorandum from D. Harris (District) to M. Goldman (District) (Aug. 18, 2017) at p. 6,  
27 WI0182.

<sup>5</sup> Exhibit 45, Declaration of Marianne F. Strange in Support of Wine Institute's Petition for Review at 3-4, WI1032-  
33.

1 require CCWS to use the NoMoVo and EcoPAS systems (the “Emissions Control Systems”) as  
2 BACT to control ethanol emissions. At a meeting on March 28, 2017, District staff stated that  
3 they believed the Emissions Control Systems were “achieved in practice” and therefore the  
4 appropriate BACT for the project.<sup>6</sup> CCWS’s permit application reflects the District’s instructions  
5 and states that the District “has given instructions that CCWS should consider these technologies  
6 as BACT for this project.”<sup>7</sup> The District’s “achieved in practice” determination was the first such  
7 determination by any Air Pollution Control District in the State.

8 Using the Emissions Control Systems as BACT would be a significant change from the  
9 manner in which CCWS had used the Emissions Control Systems previously. CCWS would  
10 have to use the systems at all times on all tanks, from the beginning of fermentation until the end.  
11 And CCWS would have to use the systems for red wine fermentation in the larger 400-series  
12 tanks, something CCWS had never done before.

13 On August 18, 2017, the District issued ATC 15044, which incorporates the District’s  
14 “achieved in practice” determination. ATC 15044 raised the facility’s emissions limit from 54.99  
15 pounds of ROCs per day to 124.98 pounds per day, and required the use of the Emissions Control  
16 Systems “at all times during fermentation operations in any tanks connected to the control  
17 equipment.”<sup>8</sup> ATC 15044 also included a 90-day “Source Compliance Demonstration Period” or  
18 “SCDP.” The SCDP is essentially a shake-down period during which a facility is permitted to  
19 operate while attempting to comply with the permit conditions.

20 To measure compliance with the permit, CCWS was required to estimate the daily  
21 emissions from the facility using emissions factors developed by CARB, and subtract the amount  
22 of ethanol captured by the Emissions Control Systems. The amount of alcohol captured, as a  
23 percentage of the total emissions, would then be averaged over a 30-day period. The permit  
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25 <sup>6</sup> Exhibit 45, Declaration of Marianne F. Strange in Support of Wine Institute’s Petition for Review at 7-9, WI1036-  
38.

26 <sup>7</sup> Exhibit 1, Central Coast Wine Services, Authority to Construct Application, Process Description, WI0009.

27 <sup>8</sup> Exhibit 3, Authority to Construct 15044, Condition 2.c, WI0129.

1 required the 30-day average to equal 67.0 percent or better. This performance standard was not  
2 based on any testing of the Emissions Control Systems to determine their efficiency or  
3 capabilities. Instead, it was proposed by CCWS based on an estimate of the emissions reductions  
4 that the systems would have to achieve in order for CCWS to remain within permit limits set by  
5 the District.<sup>9</sup> The District accepted this performance standard because it was guaranteed by the  
6 manufacturers of the Emissions Control Systems, who have a financial interest in obtaining an  
7 “achieved in practice” determination from the District.

8 Wine Institute filed a petition for review of ATC 15044 on September 14, 2017,<sup>10</sup> but  
9 CCWS and the District were in discussions to modify the ATC nearly as soon as it issued.  
10 CCWS was apparently not satisfied with the 30-day averaging period or the 90-day SCDP. The  
11 District adopted the 30-day averaging period to address the variations in emissions and capture  
12 efficiency caused by the inherent variability of the wine-making process, and the constraints on  
13 measuring emissions from wine fermentation tanks: “A 30-day rolling average addresses these  
14 constraints, and is a reasonable approach to enable the BACT process to move forward without  
15 being bogged down by excessive analytical roadblocks.”<sup>11</sup> (The analytical roadblock in this case  
16 was, apparently, measuring the actual performance of the Emissions Control Systems.) But  
17 CCWS was concerned that, even over a period of 30 days, the Emissions Control Systems might  
18 not be capable of meeting the permit’s performance standard.

19 After negotiations with CCWS and a threat by CCWS to submit a petition for review if  
20 the 30-day averaging period and the 90-day SCDP were not extended,<sup>12</sup> the District relented, and  
21 issued modified ATC 15044-01 on September 15, 2017, the day after Wine Institute had filed its

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22 <sup>9</sup> Exhibit 45, Declaration of Marianne F. Strange in Support of Wine Institute’s Petition for Review at 6-7, WI1035-  
23 36.

24 <sup>10</sup> Exhibit 4, Wine Institute’s Petition for Review of Authority to Construct 15044, H.B. Case No. 2017-21-AP (filed  
25 Sept. 14, 2017), WI0254-0272.

26 <sup>11</sup> Exhibit 3, Authority to Construct 15044, Attachment M, District Responses to Wine Institute Comments on Draft  
27 Permit, Comment 2-9, WI0244.

<sup>12</sup> Exhibit 19, Letter from CCWS to M. Goldman (District) re: BACT Calculation (Sept. 13, 2017), WI0809-WI0811;  
Exhibit 22, Email from M. Goldman (District) to G. Rios and L. Yannayon (EPA) re: CCWS (Sept. 18, 2017),  
WI0814.

1 first petition for review. In the modified permit, the District agreed to extend the averaging  
2 period and the SCDP to the full wine-making season. These changes in effect give CCWS an  
3 entire year's shakedown period during which CCWS is protected from some potential violations  
4 and can determine whether it can comply with the requirements of the permit.

5 Wine Institute filed a petition for review of ATC 15044-01 on October 11, 2017.<sup>13</sup>

### 6 **III. The District's "Achieved in Practice" Determination Is Wrong**

#### 7 **A. An "Achieved in Practice" Determination Requires A Track Record Showing** 8 **That the Technology Works, Not an Expectation That It Will Work**

9 The term "achieved in practice," with respect to BACT determinations, is not defined in  
10 state or federal law. The District's BACT Policy states only that, to be considered "achieved in  
11 practice," emissions controls must have "a proven 'track-record' of reliability."<sup>14</sup>

12 The three-prong definition of BACT (quoted in Section II.A. above) provides context that  
13 gives additional meaning to the term "achieved in practice." That definition makes clear that an  
14 "achieved in practice" determination has a specific function: it is a substitute for an examination  
15 of the technological feasibility and cost-effectiveness of an emissions control system. The BACT  
16 definition requires the use of emissions control systems that are (1) required under a State  
17 Implementation Plan (in other words, required by federal law), (2) determined by the District to  
18 be technologically feasible and cost-effective, or (3) "achieved in practice." For those controls  
19 that are not required by federal law, a determination that an emissions control system is achieved  
20 in practice means that there is no need for an inquiry into its technological feasibility or cost-  
21 effectiveness. It can be required, in essence, because *we know from prior experience that it*  
22 *works*. The District's policies acknowledge this function: "[t]he fact that a particular control  
23 technology is 'achieved-in-practice' implies its inherent economic and technological  
24 feasibility."<sup>15</sup>

25 <sup>13</sup> Exhibit 6, Wine Institute's Petition for Review of Authority to Construct 15044-01, H.B. Case No. 2017-24-AP  
(filed Oct. 11, 2017), WI0508-0766.

26 <sup>14</sup> Exhibit 36, District Policy No. 6100.064.2017, § 5.1 (the "BACT Policy"), WI0952.

27 <sup>15</sup> See *id.* at § 5.0, WI0952.

1 The District's determination that the Emissions Control Systems are "achieved in  
2 practice" will have significant precedential effect far beyond this District: other Air Pollution  
3 Control Districts in California may rely on the District's "achieved in practice" determination to  
4 impose requirements to use similar Emissions Control Systems on new storage and fermentation  
5 tank at scores of wineries across California—with a potential impact of hundreds of millions of  
6 dollars. In fact, some Districts have already stated that they will require the Emissions Control  
7 Systems because of this District's finding that they are "achieved in practice."

8 Because an "achieved in practice" determination has such extraordinary impact, and  
9 because it will end any inquiry into the technological feasibility or cost-effectiveness of the  
10 emission controls, it should not be based on guesswork, surmise, or speculation. An expectation  
11 that the emissions controls will work is not enough. In order to determine whether emissions  
12 controls are "achieved in practice," the District should examine whether the emissions controls  
13 have been used exactly as they will be required to be used under the permit. At a minimum, that  
14 means that the emissions controls must have been used in the same manner as a BACT control  
15 technology.

16 Under the District's policies, BACT emissions controls must be "effective overall [sic]  
17 operating ranges."<sup>16</sup> BACT emissions controls must also be in use at all times: "If BACT is  
18 required, then the permit must have a BACT permit condition. ... The condition should ... state  
19 that the specified BACT *must be in place at all times of operation* during the life of the  
20 project/permit."<sup>17</sup> BACT emissions controls must also be implemented through the specification  
21 of a "performance standard" and not "solely through the specification of the BACT control  
22 technology being employed."<sup>18</sup> The performance standard must be stated as a concentration, rate,  
23 removal efficiency or other applicable, enforceable, numerical standard.<sup>19</sup>

24 \_\_\_\_\_  
25 <sup>16</sup> Exhibit 36, District Policy No. 6100.064.2017 at § 8.1, WI0957.

26 <sup>17</sup> *Id.* at § 8.8, WI0960 (emphasis added).

27 <sup>18</sup> *Id.* at § 8.1, WI0957.

28 <sup>19</sup> *Id.*

1           **B.       The Emissions Control Systems Do Not Have a Proven Track Record**

2           The ATCs require that the Emissions Control Systems be used on all storage and  
3 fermentation tanks at CCWS, operate over the full fermentation cycle, and achieve a combined  
4 capture and control efficiency of 67.0 percent. None of these three requirements has been  
5 “achieved in practice” at CCWS.

6           **1.       The Emissions Control Systems have not been used on all tanks.**

7           First, the Emissions Control Systems have not been used on all of the types of tanks at  
8 CCWS. Neither system has been used to control emissions from red wine fermentation in the  
9 larger 400-series tanks. And the District’s “achieved in practice” determination does not cite any  
10 evidence that the EcoPAS system has ever been used at CCWS on red wine fermentation tanks at  
11 all. There is thus no basis for assuming, much less determining with precedential effect, that the  
12 use of the EcoPAS system for red wine fermentation is “achieved in practice.” The District  
13 acknowledges the absence of a track-record, and bases its determination on an *expectation* that  
14 the EcoPAS system will work:

15                   It is important to note that the EcoPAS system was only connected to  
16 series 400 tanks used for white wine fermentation during the 2015 and  
17 2016 seasons. Ethanol emissions from white wine fermentation are  
18 approximately 60% lower than ethanol emissions from red wine  
19 fermentation (2.5 lb/1000 gallon v. 6.2 lb/1000 gallon). The EcoPAS  
20 system *would be expected* to capture and control more ethanol if  
21 connected to tanks used for red wine fermentation.<sup>20</sup>

22           “Achieved in practice” means, at the very least, that the control system *has been used with*  
23 *success* and not just that the District *expects* it to be successful.<sup>21</sup> The District’s “achieved in  
24 practice” determination provides no basis for a determination that the NoMoVo and EcoPAS

25           <sup>20</sup> Exhibit 3, ATC 15044, Attachment E, Achieved in Practice Determination for Wine Fermentation Emission  
26 Control Technologies Memorandum from D. Harris to M. Goldman (District) (August 18, 2017) at p. 6, WI0182;  
Exhibit 41, California Air Resources Board, Wine Fermentation Emissions Factors (2005) at 5.1-1, WI0998.

27           <sup>21</sup> Exhibit 43, Declaration of Steven Branoff in Support of Wine Institute’s Petition for Review at 6, WI1014.

1 systems have been used on all types of tanks at CCWS. The District nevertheless determined that  
2 the Emissions Control Systems are “achieved in practice emission control technologies” for *all*  
3 “wine fermentation operations.”<sup>22</sup>

4 **2. The Emissions Control Systems have not been used for a full**  
5 **fermentation cycle.**

6 Second, there is no track record of using the Emissions Control Systems, as required by  
7 the ATC, to control emissions on any tank for a full fermentation cycle—from start to finish. The  
8 District’s Achieved in Practice Determination plainly acknowledges that the Emissions Controls  
9 Systems have not been used at CCWS on any tank for a full fermentation cycle.<sup>23</sup> This is  
10 especially significant in this case because the EcoPAS system is not guaranteed to work during  
11 the first quarter of the fermentation cycle or outside of certain vapor flow conditions.<sup>24</sup> The  
12 NoMoVo system is not guaranteed to work outside of “normal operational parameters.” There is  
13 thus no track-record *or* guarantee for the use of the Emissions Control Systems over the entire  
14 fermentation cycle.

15 **3. The permit’s performance standard is based on speculation.**

16 Third, the 67.0 percent performance standard that the District has specified is based on  
17 speculation—not real-world performance data. The 67.0 percent capture efficiency was  
18 calculated by CCWS’s consultant, M. F. Strange & Associates, Inc., during the ATC permitting  
19 process as the efficiency necessary to ensure that the CCWS facility remained below the level at  
20 which an Air Quality Impact Analysis would be required—it was not based on any measured  
21 control efficiency or established through testing.<sup>25</sup> The vendors of the Emissions Control Systems  
22 then agreed to “guarantee” this performance.<sup>26</sup> The District relies on these guarantees to support

23 <sup>22</sup> Exhibit 3, ATC 15044, Attachment E, Achieved in Practice Determination for Wine Fermentation Emission  
Control Technologies Memorandum from D. Harris to M. Goldman (District) (August 18, 2017) at p. 1, WI0177.

24 <sup>23</sup> *Id.* at 5-6, WI0181-82.

25 <sup>24</sup> Exhibit 1, Central Coast Wine Services, Authority to Construct Application (April 26, 2017), Attachment B  
(EcoPAS Performance Guarantee, Proposal #17102, Performance Guarantee (April 14, 2017) § 3.a), WI0018.

26 <sup>25</sup> Exhibit 45, Declaration of Marianne F. Strange in Support of Wine Institute’s Petition for Review at 6-7, WI1035-  
36.

27 <sup>26</sup> *Id.* at 7, WI1036.

1 the performance standard, but the manufacturers have a financial incentive to promise that their  
2 systems will work. If the systems work, they may be required by air pollution control districts  
3 across the State and the manufacturers will reap enormous profits. If the systems fail, the  
4 manufacturers' risk is limited to the purchase price.<sup>27</sup> The manufacturers' promises are not the  
5 same as proof that the systems have been "achieved in practice."

6 **4. There is insufficient data indicating that the Emissions Control**  
7 **Systems have achieved the required performance standard.**

8 Fourth, there is no data from CCWS, or from any other facility, to support a finding that  
9 CCWS could or would meet the 67 percent performance standard that the District has required.  
10 Indeed, CCWS's permit application candidly states that there is no demonstrated performance  
11 standard for the Emissions Control Systems. As the application notes in the BACT Analysis  
12 Summary Form for the EcoPAS system, the "Performance Standard" is "To Be Determined":

13 EcoPAS has provided CCWS with a performance guarantee of 67%.

14 **However this control efficiency has not been validated.** Limitations of  
15 the capture system were not taken into consideration. **Only with proper**  
16 **validation can a real control efficiency be assigned to this combination**  
17 **of vapor capture and ethanol extraction from the vapor stream....**<sup>28</sup>

18 The application also notes that "This technology is not effective over all operating ranges"—and  
19 therefore fails to meet one of the key requirements of the District's BACT Policy—and that  
20 "BACT will not be achievable during non-standard operations."<sup>29</sup> Under "Operating  
21 Constraints," the application states, "[t]o be determined."<sup>30</sup>

22 As noted by the District, the emissions control guarantee provided by EcoPAS does not

23  
24 <sup>27</sup> See, e.g., Exhibit 1, Central Coast Wine Services, Authority to Construct Application, Attachment B, WI0020  
(guarantee limited to purchase price).

25 <sup>28</sup> See Exhibit 1, Central Coast Wine Services, Authority to Construct Application, Attachment B, at 1 (emphasis  
added), WI0016.

26 <sup>29</sup> *Id.* at 2, WI0017.

27 <sup>30</sup> *Id.*



1 apply to the first quarter of the fermentation cycle, and only applies within a limited exhaust flow  
2 range.<sup>31</sup> Although the District acknowledges that the system is only guaranteed to operate at  
3 specific flow ranges, the permit contains no analysis of whether those flow ranges will be—or  
4 have been—achieved at CCWS.

5 CCWS's permit application also concedes that there is no demonstrated performance  
6 standard for the NoMoVo system. NoMoVo's manufacturer, NohBell, presents a range of  
7 possible capture efficiencies from 45 percent to over 90 percent. The application notes that the  
8 Performance Standard of the NoMoVo system is uncertain:

9 Performance Standard: To be Determined – NohBell has provided CCWS  
10 with a performance guarantee of 67.5%. **However this control efficiency**  
11 **has not been validated.** Limitations of the capture system were attempted  
12 to be taken into consideration. **Only with proper validation can a real**  
13 **control efficiency be assigned to this combination of vapor capture and**  
14 **ethanol extraction from the vapor stream be assessed.**

15 ....

16 The performance of this technology is not consistent over the entire  
17 duration of a fermentation cycle. Absorption performance can vary from  
18 45% to 90+% depending upon the timing of the fermentation cycle.  
19 Compound that variability with the normal insistent operations of the  
20 capture manifold, and **the actual variability of the control efficiency**  
21 **across all operating ranges [is] indeterminable.**<sup>32</sup>

22 Just as with the EcoPAS system, the application notes that “Operating Constraints” are “[t]o be  
23 determined.”<sup>33</sup>

24 <sup>31</sup> Exhibit 3, Permit Evaluation for Authority to Construct 15044, at 3, WI0160; Exhibit 3, ATC 15044, Attachment  
25 D (BACT Determination), WI0175-76.

26 <sup>32</sup> Exhibit 1, Central Coast Wine Services, Authority to Construct Application, Attachment C, WI0051-52 (emphasis  
27 added).

<sup>33</sup> *Id.* at 2, WI0052.

Moreover, the District has apparently acknowledged that the performance standard is based more on hope than fact. In a letter to the District confirming discussions at a pre-application meeting about the permit, CCWS states that:

The meeting included a discussion on how the District would work with CCWS in the event that the percent reduction of ethanol documented in ATC 15044 could not be achieved during source compliance demonstration period (SCDP). **This concern was raised by CCWS because historically, neither EcoPas nor NoMoVo control devices had been used throughout a complete fermentation cycle.... It has been agreed that [this] is a first generation BACT determination and CCWS is requesting that the District works with us to ensure that it is achievable.** CCWS also wants to confirm that the District will not take enforcement action and that a clear avenue of modifying BACT and the permit will be available. Although not clearly stated in the ATC, CCWS is documenting in this letter our understanding of the process that was discussed at the pre-application meeting.

In the event that 67% BACT capture and efficiency cannot be met by either control device referenced above; the District will:

1. not issue a Notice of Violation (NOV),
2. not require a modification to CCWS's historical wine making practices,
3. work with CCWS to revise the BACT determination, and
4. allow a revision to the ATC to adjust to a new control efficiency or if necessary the mathematical methodology used to make the control efficiency determination that is being documented during SCDP.<sup>34</sup>

<sup>34</sup> Exhibit 15, Letter from M. Mather (CCWS) to M. Goldman (District) re: Central Coast Wine Services, Authority to Construct 15044 (September 5, 2017), WI0804 (emphasis added).

1 Although the record is unclear, the District apparently responded to this letter by disagreeing with  
2 CCWS's summary and stating that CCWS could seek a variance in the event of any non-  
3 compliance.<sup>35</sup> But regardless of that dispute, this record clearly demonstrates that both CCWS  
4 and the District were aware that it was uncertain whether the Emissions Control Systems could  
5 meet the 67 percent performance standard.

6 In short, the Emissions Control Systems have not been used on all tanks at CCWS, have  
7 not been used over a full fermentation cycle, and their performance efficiency is unknown. On  
8 this record, there is simply no reasonable basis for determining that the Emissions Control  
9 Systems have been "achieved in practice," have a "proven track record of reliability," or have  
10 been demonstrated to be "effective overall [sic] operating ranges," as required by the District's  
11 BACT Policy.

12 **5. The District's "achieved in practice" determination violates the**  
13 **District's established procedures.**

14 The District's "achieved in practice" determination also violates the District's own  
15 established procedures. The District's Engineering Division Manager wrote to the manufacturer  
16 of the EcoPAS system that, before issuing an "achieved in practice" determination, it was the  
17 District's policy to authorize the use of a control device as BACT (under the technological  
18 feasibility and cost effectiveness standards), and then perform verification testing.<sup>36</sup> The District  
19 should have followed that established procedure for the Emissions Control Systems. But it did  
20 not.

21 **C. The Proposed Performance Standard Is Based On A Theoretical Estimate**

22 Not only is the 67.0 percent performance standard unproven and speculative, it is also  
23 based on a theoretical estimate of facility emissions. The CARB emission factors that the District

24 <sup>35</sup> See Exhibit 19, Letter from M. Mather (CCWS) to M. Goldman (District) re: Central Coast Wine Services,  
25 Authority to Construct 15044 (September 13, 2017), WI0811 ("The current BACT compliance methodology  
26 includes the potential risk for repeated non-compliance that is not tied to actual emissions or control efficiency. The  
27 District's proposed recourse of requesting a variance and the District's unwillingness to grant a stay in any  
enforcement action, except as noted in [the District's Policy and Procedure] 3100 5.B. is not acceptable to CCWS.").

<sup>36</sup> Exhibit 25, Letter from M. Goldman (District) to P. Thompson (EcoPAS) re: BACT Determinations (January 21,  
2016), WI0842.

1 relies on to calculate CCWS's uncontrolled emissions are not designed to be used for facility-  
2 specific determinations. Rather, CARB developed those factors for use by California Air Districts  
3 to estimate *district-wide* emissions from wineries as part of region-wide planning efforts.<sup>37</sup> The  
4 CARB emission factors are theoretical estimates of expected emissions at an average winery. The  
5 factors were derived from a 1983 paper that demonstrated the relationship between fermentation  
6 temperature and sugar content in wines.<sup>38</sup> Since these factors can vary significantly, depending  
7 on the location and climate of the winery, the type of grape, and the type of wine being produced,  
8 among other factors, CARB calculated average values for use in district-wide planning. The  
9 emission factors do not reflect the specific types of wine, sugar content or temperatures at  
10 CCWS, and therefore may not accurately reflect emissions from CCWS's facility.

11       The lack of reliable data to support a performance standard may seem like a technicality  
12 (because the systems do capture *some* ethanol), but it is in fact very significant, for two reasons.  
13 First, the reason that District policy requires BACT conditions to be stated as a performance  
14 standard is because the law does not require regulated parties to use the exact same technology  
15 that has been found to be "achieved in practice" BACT.<sup>39</sup> If a regulated party can achieve the  
16 same emissions reductions with a different technology, then the law allows it to do so. In other  
17 words, the law is technology neutral, and stays out of the business of telling regulated parties  
18 exactly what controls they have to buy and from whom. But the law can only remain technology  
19 neutral if there is a documented and supported performance standard that regulated parties must  
20 meet. A guess, or an unsupported estimate, is not sufficient, and is not acceptable as BACT.

21       Second, the fact that the District cannot establish a reliable performance standard for the  
22 EcoPAS and NoMoVo systems means that one of them may perform significantly better or worse  
23 than the other. In that case, the one that performs worse would not be the "most effective"

25 <sup>37</sup> Exhibit 43, Declaration of Steven Branoff in Support of Wine Institute's Petition for Review at 4, WI1012.

26 <sup>38</sup> *Id.* at 4-5, WI1012-13.

27 <sup>39</sup> *Id.* at 5, WI1013.

1 control,<sup>40</sup> and therefore would not be BACT. Thus, the absence of reliable performance data  
2 means that one of the Emissions Control Systems probably is not BACT—and the District does  
3 not know which one.<sup>41</sup>

4 **D. The Emissions Control Systems Have Not Been Tested Over A Sufficient**  
5 **Period Of Time**

6 Not only have the Emissions Control Systems never been used as required in the permit,  
7 they also have not been used under any circumstances for a sufficient period of time to make an  
8 “achieved in practice” determination. The District points to a 1997 EPA memo that states that an  
9 emissions control device must successfully operate over six months to be considered “achieved in  
10 practice.”<sup>42</sup> Another leading Air Quality Management District, the South Coast AQMD, requires  
11 at least 183 cumulative days of operation to meet the reliability criterion for “achieved in  
12 practice” determinations.<sup>43</sup> These time periods are *minimums*; an air district is *not* required to  
13 conclude that an emissions control device is “achieved in practice” after six months or 183 days  
14 of use. The District’s AIP Determination memo, without reference to any guidance or analysis,  
15 slashes that “successful operation” period from six months or 183 days to only 80 days—based  
16 on the assertion that the short wine fermentation season justifies a shorter demonstration period.  
17 But the District provides no reason why a shorter wine fermentation season would justify less  
18 study of the Emissions Control Systems, and there is no logical reason to conclude that a shorter  
19 “successful operation” period is reasonable.

20 The NoMoVo system has operated at CCWS for a total of 147 days over three wine  
21 fermentation seasons, and the EcoPAS system has operated at CCWS for a total of 108 days over

22 <sup>40</sup> See Exhibit 33, Rule 802.D.2.a, WI0917.

23 <sup>41</sup> See Exhibit 43, Declaration of Steven Branoff in Support of Wine Institute’s Petition for Review at 7, WI1015.

24 <sup>42</sup> Exhibit 3, ATC 15044, Attachment E, Achieved in Practice Determination for Wine Fermentation Emission  
25 Control Technologies Memorandum from D. Harris (District) to M. Goldman (District) (Aug. 18, 2017) at p. 2-3,  
WI0178-79 (citing letter from D. Howekamp (EPA) to M. Nazemi (South Coast AQMD) (Aug. 25, 1997)).

26 <sup>43</sup> Exhibit 37, South Coast AQMD, Best Available Control Technology Guidelines, Part A – Policy and Procedures  
27 for Major Polluting Facilities (Dec. 2016) at 19, WI0966 (“All control technologies must have been installed and  
operated reliably for at least six months. **If the operator did not require the basic equipment to operate daily,**  
**then the equipment must have at least 183 cumulative days of operation.**”) (emphasis added).

1 two seasons.<sup>44</sup> While the District tries to finesse the fact that the Emissions Control Systems have  
2 not been used for a total of six months by referring to various percentages of use over  
3 fermentation seasons,<sup>45</sup> the fact remains that neither Emission Control System has been used for a  
4 cumulative total of six months or 183 days.<sup>46</sup> As EPA and the SCAQMD have concluded, that is  
5 not enough time to justify an “achieved in practice” determination.

6 **E. The Emissions Control Systems Cannot be “Achieved in Practice” Because**  
7 **There Is No Evidence that CCWS Has Paid the Actual Cost of Acquiring and**  
8 **Operating the Emissions Control Systems**

9 As discussed above, an “achieved in practice” determination implies a determination that  
10 the emission control is cost effective. If the emission control has been successfully used by  
11 private parties as BACT, or in the same manner as a BACT control, over a substantial period of  
12 time, that implies that the cost of the emission control is not economically prohibitive for the  
13 affected industry.

14 Common industry practice is for companies to purchase emissions control systems, and  
15 EPA’s Air Pollution Control Cost Manual analyzes cost effectiveness with the assumption that  
16 the systems are purchased.<sup>47</sup> But, as discussed in the declaration of Marianne F. Strange, CCWS  
17 did not purchase the Emissions Control Systems. Instead, it leased them. The leasing of the  
18 Emissions Control Systems may provide CCWS with a “discount” from the fair market cost.<sup>48</sup>  
19 The District has never analyzed whether CCWS has paid a full market price for the systems or is  
20 instead receiving them at a discount as a promotion.

21 The sale or lease of an emissions control system at significantly reduced prices—as a  
22 “loss leader”—is a legitimate business and marketing strategy to promote a product. It also

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23 <sup>44</sup> Exhibit 3, ATC 15044, Attachment E, Achieved in Practice Determination for Wine Fermentation Emission  
24 Control Technologies Memorandum from D. Harris (District) to M. Goldman (District) (Aug. 18, 2017) at p. 5-6,  
WI0181-82.

25 <sup>45</sup> *Id.*

26 <sup>46</sup> *Id.*

27 <sup>47</sup> Exhibit 45, Declaration of Marianne F. Strange at 10, WI039.

28 <sup>48</sup> *Id.* at 9-11, WI1038-40.

1 benefits an early adopter of a product, who obtains it at a substantial discount below fair market  
2 price, in order to prove its functionality and attract future customers. But, because CCWS may  
3 have acquired and operated the Emissions Control Systems at below-market costs, it cannot be  
4 said that the use of those systems is “achieved in practice.” One of the premises of an “achieved  
5 in practice” determination is that cost considerations do not need further study because a business  
6 has been able to deploy the control systems without going out of business.<sup>49</sup> In other words, the  
7 proof is supposed to be in the successful use of the system acquired at fair market prices by a for-  
8 profit business.

9 But, if CCWS has not actually paid fair market prices for the Emissions Control Systems,  
10 then it cannot be said that the cost of acquiring and operating the Emissions Control Systems is  
11 reasonable. This point has been illustrated by the San Joaquin Valley Air Pollution Control  
12 District (San Joaquin Valley APCD) in a response to EPA regarding the use of the Emissions  
13 Control Systems:

14 In the letter, EPA referenced a 2013 source test of a NoMoVo scrubber  
15 system installed at a Kendall Jackson winery for a temporary experimental  
16 research operation that was funded by a grant from BAAQMD as evidence  
17 that this emission control technology can achieve emission reductions from  
18 wine fermentation operations. As explained in the AIR Memo, Kendall  
19 Jackson did not purchase the referenced NoMoVo system, and it is no  
20 longer being used at the winery. In a 1989 memorandum titled “Guidance  
21 on Determining Lowest Achievable Emission Rate (LAER)” EPA makes a  
22 statement “*If some other plant in the same (or comparable) industry uses a*  
23 *control technology, then such use constitutes de facto evidence that the*  
24 *economic cost to the industry is not prohibitive.*” In fact, this is the logic  
25 that allows air districts to require emission control technology that has

26 <sup>49</sup> Exhibit 37, SCAQMD BACT Guidelines, Part A - Policy And Procedures For Non-Major Polluting Facilities  
27 (Dec. 2016) at 19-21, WI0966-68.

1           been achieved in practice to be required regardless of cost. However, **this**  
2           **logic is only sound if the example facility actually incurred economic**  
3           **costs related to the use of that technology. Since Kendall Jackson did**  
4           **not purchase the NoMoVo emission control system, it did not incur**  
5           **any economic cost due to the use of this emission control system, so**  
6           **one cannot conclude that the use of this technology at this installation**  
7           **is de facto proof that the economic cost to the industry is not**  
8           **prohibitive.**<sup>50</sup>

9       As the Kendall Jackson example shows, an Emissions Control System acquired and operated by a  
10      winery at below-market costs cannot constitute “de facto evidence that the economic cost to the  
11      industry is not prohibitive.” Since CCWS may not have paid a fair market price for the  
12      installation or the operation of the Emissions Control Systems, there is no justification for a  
13      finding that the Emissions Control Systems have been “achieved in practice.” On this basis alone,  
14      the “achieved in practice” determination should be rescinded.

15           Moreover, not only has the District failed to assess whether the Emissions Control  
16      Systems were obtained at fair market prices, the Emissions Control Systems would not pass cost  
17      effectiveness analysis if they were evaluated. The declaration of Marianne F. Strange includes, as  
18      an exhibit, a Top Down BACT analysis performed according to EPA guidance by Marianne F.  
19      Strange and Associates.<sup>51</sup> That analysis demonstrates that the Emissions Control Systems would  
20      not meet cost effectiveness benchmarks when evaluated according to EPA standards.<sup>52</sup> The  
21      inability to demonstrate that CCWS has paid the actual cost of the Emissions Control Systems,  
22      and the further analysis that the Systems are not cost effective, further demonstrates that the

23  
24      <sup>50</sup> Exhibit 41, Final Authority to Construct (Significant Modification), Facility No. C-447, San Joaquin Valley Air  
25      Pollution Control District (Nov. 3, 2015), District Response to Environmental Protection Agency (EPA) Comments  
26      to SJVAPCD, submitted May 8, 2015, at \*3, WI1006 (emphasis added).

27      <sup>51</sup> Exhibit 45, Declaration of Marianne F. Strange in Support of Wine Institute’s Petition for Review, Exhibit A,  
28      WI1041-46.

29      <sup>52</sup> Exhibit 45, Declaration of Marianne F. Strange in Support of Wine Institute’s Petition for Review, at 9-11,  
30      WI1038-40



District's "achieved in practice" determination does not withstand scrutiny.

**F. The Emissions Control Systems Have Not Been "Achieved in Practice" Because There Has Been No Examination of Their Effect On Wine Quality**

One of the reasons why the District should not rush an AIP determination in this case is the question whether the Emissions Control Systems will have any effects on wine taste or quality. This is of course a critical issue to winemakers. As EPA has recognized in several policy statements,<sup>53</sup> and industry experts acknowledge,<sup>54</sup> changes in fermentation processes can significantly affect the quality of wine produced. Wines may be affected by bacteria, different types of yeast, and mold, all of which may grow in or be transmitted through the hoses and ducting that connect the Emissions Control Systems to the wine tanks. The Emissions Control Systems create the potential for contamination and connection, through their manifolded pipes, from one tank to another.<sup>55</sup> Although CCWS has not identified any quality issues given the limited use of the Emissions Control Systems thus far, this issue should be studied during a test of the Emissions Control Systems, used under BACT conditions. The District should not issue a de facto requirement for the use of the Emissions Control Systems throughout the State without any study of their effects on wine quality. No such study has been performed to date.

**G. The District's BACT Policy Plainly Requires Source Testing to Determine BACT, But No Source Testing Was Performed.**

The District's BACT Policy requires that source testing be performed to "ensure that the BACT performance standards and hourly mass emission rates are in compliance."<sup>56</sup> A source test is a precise measurement of the emissions from a source, using a District-approved protocol and testing method. No such source testing has ever been performed at CCWS.

<sup>53</sup> Exhibit 40, Emissions Factors for Wine, U.S. Environmental Protection Agency (Oct. 1985), § 9.12.2.2, WI0990 (noting effect of temperature, venting of CO<sub>2</sub>, water vapor, and ethanol, and malolactic fermentation on wine quality).

<sup>54</sup> Exhibit 44, Declaration by Christopher Savage in Support of Wine Institute's Opening Brief re: Wine Quality (Dec. 15, 2017), Exhibit A ("Microbiological Concerns Related to Potential Proposed Requirements of Alcohol Emission Fermenter Ducting" (Sept. 14, 2017)), WI1023-29.

<sup>55</sup> *Id.*

<sup>56</sup> Exhibit 36, District Policy 6100.064.2017, § 8.4, WI0958-59.

1 The District's BACT Policy provides that "[s]ource testing may not be applicable in some  
2 BACT determinations and other means of compliance may be used."<sup>57</sup> However, the District and  
3 manufacturers of the Emissions Control Systems have implicitly conceded that source testing of  
4 the Emissions Control Systems is possible. The District's Engineering Division Manager has  
5 acknowledged, in an email to CCWS, that EPA is considering conducting such testing:

6 Just wanted to share with you a conversation I had with EPA recently  
7 regarding winery emission control source testing. In particular, we  
8 discussed the CCWS question and options, *including a potential EPA*  
9 *study to evaluate source testing methodologies (a longer term project)*. In  
10 the meantime, EPA provided us guidance that source testing using the  
11 mass balance calculations currently in place would be an acceptable  
12 compliance tool in lieu of traditional inlet/outlet source testing. *Once*  
13 *complete, we would utilize EPA's test method for new projects ....*<sup>58</sup>

14 This email implicitly concedes that source testing is possible, and even under review by EPA.

15 The manufacturer of the EcoPAS system has similarly conceded that source testing is  
16 possible, stating that source testing "is long overdue." In an email to the District, EcoPAS sought  
17 funding for such testing:

18 *When you talk to EPA, can you support the concept that they fund a*  
19 *review of source testing for this category?* This may take a while (and  
20 even more if it is determined that new method(s) need validating), but it  
21 would be good to get it started. In the meantime, we can use mass balance,  
22 but *a solid assessment of actual emissions factors and inventory is long*  
23 *overdue.*<sup>59</sup>

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24 <sup>57</sup> *Id.*

25 <sup>58</sup> Exhibit 9, Email from M. Goldman (District) to R. Mather (CCWS) re: Source Testing (March 1, 2017), WI0783  
(emphasis added).

26 <sup>59</sup> Exhibit 5, Email from P. Thompson (EcoPAS) to M. Goldman (District) re: EPA Position on Winery VOCs (Jan.  
27 6, 2017) (emphasis added), WI0506.

1 These emails suggest not only that source testing is possible, but also that the reason it has not  
2 been conducted is the manufacturers' reluctance to pay for it. That is not a reason to waive the  
3 source testing requirement.

4 The District's BACT Policy also requires the approval of the Supervisor of the Permitting  
5 Section to waive the requirement for source testing. The permit contains no statement that the  
6 Supervisor has provided such waiver. The failure to perform source testing, without adequate  
7 justification, further demonstrates that the Emissions Control Systems have not been used as  
8 BACT and are not "achieved in practice."

#### 9 **IV. In Other Clean Air Act Contexts, "Achieved in Practice" Is a High Bar**

10 In a related area of law arising under the Clean Air Act, the courts have determined that  
11 an "achieved in practice" determination must be supported by actual, real world data. In cases  
12 regarding the standard that must be met by control equipment required to be the Maximum  
13 Achievable Control Technology (MACT)<sup>60</sup> which has been "achieved in practice," courts have  
14 determined that the control technology must "achieve" the MACT floor "in practice" and that  
15 theoretical projections of how the emission control systems will perform are not sufficient.<sup>61</sup> For  
16 the control technology to be "achieved in practice," it must have achieved the emission control  
17 "under the worst foreseeable circumstances."<sup>62</sup> Although this standard does not apply directly to  
18 the case before the Hearing Board, it demonstrates the high bar that should be met before making  
19 an "achieved in practice" determination.

#### 20 **V. The Only Statewide Review of the Emissions Control Systems Concluded That They 21 Are Not "Achieved in Practice"**

22 The San Joaquin Valley APCD conducted a statewide analysis in 2015 and 2016 of the

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23 <sup>60</sup> 42 U.S.C. § 7429(a)(2) (imposing requirement to use the MACT for solid waste incineration units, and requiring  
24 that the emissions control shall "not be less stringent than the emissions control that is achieved in practice by the  
best controlled similar unit.").

25 <sup>61</sup> *Michigan v. EPA*, 135 S. Ct. 2699, 2719, 192 L. Ed. 2d 674 (2015) ("Cost considerations are reflected in the  
26 selection of emissions limitations which have been *achieved in practice* (rather than those which are merely  
theoretical) by sources of a similar type or character." S. Rep. No. 101-228, pp. 168-169 (1989), 1990  
U.S.C.C.A.N. 3385, 3554 (emphasis added)).

27 <sup>62</sup> *Sierra Club v. EPA*, 167 F.3d 658, 665 (D.C. Cir. 1999).

1 use of the Emissions Control Systems at multiple facilities throughout California.<sup>63</sup> This  
2 comprehensive review found that the Emissions Control Systems were not “achieved in practice”  
3 because:

- 4 • “The [CCWS] permit [did] not require continuous operation of the [Emissions  
5 Control Systems].”
- 6 • “The effectiveness of the [Emissions Control Systems] has only been estimated  
7 using . . . a theoretical calculation of the quantity of ethanol that would be emitted  
8 if the tanks were uncontrolled. Inlet and outlet air quality testing has not been  
9 performed for this particular installation.”
- 10 • “[T]he overall effectiveness of the system, including any ethanol re-emitted into  
11 the atmosphere during [waste] disposal, has yet to be sufficiently determined.”
- 12 • “[T]he control technology has not been demonstrated to operate in a manner that  
13 would be required by BACT . . .”<sup>64</sup>

14 Despite the San Joaquin Valley APCD’s thorough statewide review, which was presented to the  
15 District before it issued the modified permit to CCWS, the District has not demonstrated, and  
16 cannot demonstrate, that the San Joaquin Valley APCD’s analysis is incorrect.

#### 17 **VI. EPA’s Views Regarding the Emissions Control Systems Are Not Conclusive**

18 In a series of letters cited by the District, an EPA staff person has expressed the opinion  
19 that the Emissions Control Systems are achieved in practice, and therefore constitute the “Lowest  
20 Achievable Emissions Rate” under federal law, which is similar to the District’s definition of  
21 “achieved in practice” BACT. EPA staff expressed those opinions in connection with federal  
22 permits sought by wineries in the Central Valley. Those letters, however, do not bind the  
23 District, nor do they bind EPA or other APCDs. EPA is free to revise them, and may do so at any  
24 time. They are not considered statements of EPA policy, or even official guidance.<sup>65</sup> In any  
25 event, CCWS’s permit is not a federal permit, and EPA has no say in whether any permit is  
26 issued to CCWS, or whether an “achieved in practice” determination should be included in any  
27

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28 <sup>63</sup> Exhibit 24, Achieved in Practice Analysis for Emission Control Technologies Used to Control VOC Emissions  
from Wine Fermentation Tanks, SJVAPCD (Feb. 9, 2015, revised May 9, 2016), WI0828.

<sup>64</sup> *Id.* at 11-12, WI0838-39.

<sup>65</sup> Exhibit 43, Declaration of Steven Branoff in Support of Wine Institute’s Petition for Review at 8-9, WI1016-17.

1 such permit.

2 **VII. Conclusion**

3 When CCWS first met with the District to discuss the permits at issue here, CCWS  
4 planned to apply for a permit that would include BACT technologies that were determined by the  
5 District to be “technologically feasible and cost-effective.” If the District had followed its own  
6 rules and procedures and made a determination that the Emissions Control Systems were  
7 “technologically feasible and cost-effective” for CCWS, there would have been no appeal.  
8 Instead, the District made a premature determination that the Emissions Control Systems were  
9 “achieved in practice”—without an adequate track record and without developing a reliable  
10 performance standard. That determination is both wrong and very damaging to the State’s wine  
11 industry. The Hearing Board should reverse it, and direct the Air Pollution Control Officer to  
12 issue a new permit to CCWS that does not contain an “achieved in practice” determination with  
13 respect to the Emissions Control Systems.

14  
15 Dated: January 9, 2018

Respectfully submitted,

16 BARG COFFIN LEWIS & TRAPP, LLP

17  
18 By:

  
R. MORGAN GILHULY

19 Attorneys for Wine Institute  
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**PROOF OF SERVICE**

I am a resident of the State of California, over the age of eighteen years, and not a party to the within action. My business address is Barg Coffin Lewis & Trapp, LLP, 600 Montgomery Street, Suite 525, San Francisco, California 94111. On January 9, 2018, I served the following document:

**PETITIONER WINE INSTITUTE'S OPENING BRIEF**  
**Case Nos. 2017-21-AP, 2017-24-AP**

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- ☐ by transmitting via facsimile the document(s) listed above to the fax number set forth below on this date before 5:00 p.m.
- ☒ by causing personal delivery overnight delivery by Federal Express of the document(s) listed above to the person at the address set forth below.
- ☐ by dispatching a messenger from my place of business with instructions to hand-carry the above and make delivery to the following during normal business hours, by leaving a true copy thereof with the person whose name is shown or the person who was apparently in charge of that person's office or residence.
- ☐ by placing the document(s) listed above in a sealed envelope with postage thereon fully prepaid, in the United States mail at San Francisco, California addressed as set forth below.
- ☐ by transmitting via email the document(s) listed above to the email address(es) set forth below on this date before 5 p.m.

Sara Hunt Clerk of the Hearing Board Santa Barbara County Air Pollution Control District 260 North San Antonio Road, Suite A Santa Barbara, CA 93110	William Michael Dillon County Counsel's Office 105 E. Anapamu Street Santa Barbara, CA 93101
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I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed on January 9, 2018, at San Francisco, California.

  
\_\_\_\_\_  
Carlotta Datanagan