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IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON  
IN AND FOR COUNTY OF PIERCE

ADVOCATES FOR A CLEANER TACOMA;  
SIERRA CLUB; WASHINGTON  
ENVIRONMENTAL COUNCIL; WASHINGTON  
PHYSICIANS FOR SOCIAL RESPONSIBILITY;  
STAND.EARTH and THE PUYALLUP TRIBE OF  
INDIANS,

Petitioners,

vs.

PUGET SOUND CLEAN AIR AGENCY and  
PUGET SOUND ENERGY, and WASHINGTON  
POLLUTION CONTROL HEARINGS BOARD,

Respondents.

NO.

PETITION FOR JUDICIAL REVIEW  
(PCHB No. P19-087c)

**INTRODUCTION**

Pursuant to RCW 43.21B.180, RCW 34.05.546, and WAC 371-08-555, Advocates for a Cleaner Tacoma et al. (“Petitioners”) respectfully petition for judicial review of two orders of the Pollution Control Hearings Board (“PCHB”) arising from Petitioners’ appeal of a project approval for a liquified natural gas facility in Tacoma, Washington.

**(1) Name and mailing address of the petitioners:**

Advocates for a Cleaner Tacoma  
2661 N. Pearl Street, #409

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(206) 343-7340

1 Tacoma, WA, 98407  
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2  
3 Sierra Club, Washington Chapter  
180 Nickerson Street, Suite 202  
Seattle, WA, 98109  
4 Tel: 206-378-0114

5 Washington Environmental Council  
1402 Third Ave, Suite 1400  
6 Seattle, WA 98101  
Tel: (206) 631-2600

7  
8 Washington Physicians for Social Responsibility  
4500 9th Ave NE, Suite 300  
Seattle, WA 98105  
9 Tel: (206) 547-2630

10 Stand.earth  
1329 N State St #302  
11 Bellingham, WA 98225  
Tel: (360) 734-2951

12  
13 **(2) Name and mailing address of the petitioner's attorney:**

14 Jan Hasselman  
15 Jaimini Parekh  
Earthjustice  
810 Third Avenue, Suite 610  
Seattle, WA 98104  
16 Tel. (206) 343-7340  
jhasselman@earthjustice.org  
17 jparekh@earthjustice.org

18 **(3) Name and mailing address of the agency whose action is at issue:**

19 Pollution Control Hearings Board  
20 Environmental Hearings Office  
1111 Israel Road SW, Suite 301  
Tumwater, WA 98501

21 (mailing address)  
22 P.O. Box 40903  
Olympia, WA 98504-0903

1 **(4) Identification of the agency action at issue:**

2           Petitioners seek review of two orders issued by the PCHB in petitioners’ administrative  
3 appeal of an air pollution permit and accompanying supplemental environmental impact  
4 statement (“SEIS”) issued by the Puget Sound Clean Air Agency (“PSCAA”) for Puget Sound  
5 Energy’s Tacoma Liquefied Natural Gas (“LNG”) facility (the “Project”). First, on March 26,  
6 2021, the Board issued an order granting summary judgment to respondents on Issue 1 in  
7 Petitioners’ appeal, which asked whether the Permit was ultra vires and invalid under state law.  
8 In that order, the Board also dismissed as a matter of law petitioners’ challenge to a separate EIS  
9 previously issued by the City of Tacoma, covering other attributes of the Project. Second, on  
10 November 19, 2021, the Board issued its final Findings of Fact, Conclusions of Law and Order  
11 on the State Environmental Policy Act (“SEPA”) issues, which largely affirmed the Permit and  
12 underlying EIS.

13           True and correct copies of both decisions are attached to this Petition.

14 **(5) Identification of other parties:**

15           Puget Sound Clean Air Agency  
16           c/o Jennifer Dold, General Counsel  
17           1904 3rd Ave # 105  
18           Seattle, WA 98101  
19           jenniferd@psccleanair.gov

20           Puget Sound Energy  
21           Erin L. Anderson  
22           Tadas A. Kisielius  
23           1191 Second Avenue, Suite 1800  
24           Seattle, WA 98101  
25           Tel. 206-623-9372  
26           eanderson@vnf.com  
              tak@vnf.com

              Puyallup Tribe of Indians  
              Lisa A.H. Anderson  
              Law Office of the Puyallup Tribe of Indians  
              3009 East Portland Avenue

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1 Tacoma, WA 98404  
2 Tel. 253-573-7876  
3 Lisa.anderson@puyalluptribe-nsn.gov

4 Geoff Bridgman  
5 Nicholas G. Thomas  
6 Andrew S. Fuller  
7 OGDEN MURPHY WALLACE, PLLC  
8 901 Fifth Avenue, Suite 3500  
9 Seattle, WA 98164  
10 Tel: 206-447-7000  
11 gbridgman@omwlaw.com  
12 nthomas@omwlaw.com  
13 afuller@omwlaw.com

14 **(6) Facts entitling petitioners to judicial review:**

15 1. In September 2014, the City of Tacoma initiated an environmental review for a  
16 shoreline substantial development permit for the Tacoma LNG project. The project was to store  
17 natural gas for Puget Sound Energy’s (“PSE”) customers for use during periods of peak demand,  
18 known as “peak shaving.” Additionally, the project would provide LNG as a fuel for marine  
19 vessels and trucks.

20 2. Subsequent to environmental review and permitting by the City of Tacoma, PSE  
21 submitted a notice of construction, pursuant to state and federal clean air laws, seeking  
22 authorization from the Puget Sound Clean Air Agency (“PSCAA”) for the facility. Because the  
23 City’s Final Environmental Impact Statement (“FEIS”) did not consider lifecycle greenhouse gas  
24 (“GHG”) emissions, and because it relied on guidance that had later been withdrawn, PSCAA  
25 prepared a Supplemental Environmental Impact Statement (“SEIS”) to assess lifecycle GHGs,  
26 but in other respects relying on the FEIS in its permitting.

1 3. PSCAA issued a draft SEIS in late 2018. The comment period generated nearly  
2 15,000 comments, many of them deeply critical of the GHG analysis, which found that the  
3 project would result in a net *reduction* in GHG emissions on an annual basis. On March 29,

1 2019, PSCAA finalized the SEIS. The SEIS concluded that the project’s GHG emissions were  
2 substantial but that the emissions under the “no action” scenario were the same or even higher—  
3 meaning the project would have an insignificant impact on GHG emissions over the project’s  
4 anticipated 40-year lifespan. On December 10, 2019, PSCAA issued the final Order of Approval  
5 No. 11386 (“Approval Order”), to Construct, Install, or Establish the Tacoma LNG facility.

6 4. The Approval Order was signed by staff at the agency. The Board of PSCAA  
7 took no action with respect to the Approval Order.

8 5. Advocates for a Cleaner Tacoma (“ACT”) and the Puyallup Tribe separately  
9 appealed the Approval Order to the Pollution Control Hearings Board (“PCHB”) on December  
10 19, 2019. The appeals were consolidated, and each petitioner joined the other petitioners’  
11 appeals.

12 6. ACT’s appeal raised a number of challenges to the Approval Order and the SEIS  
13 on which it relied. ACT challenged the permit as *ultra vires*, challenged PSCAA’s reliance on  
14 the Tacoma FEIS, and raised several challenges to the validity of the SEIS addressing  
15 greenhouse gases (“GHGs”).

16 7. On March 26, 2021, the Board issued an order on Puget Sound Energy’s motion  
17 to dismiss and summary judgment, which had been joined by PSCAA. That decision dismissed  
18 several of ACT’s issues, while preserving others for hearing.

19 8. The hearing on ACT’s and the Tribe’s appeal took place in April 2021 and lasted  
20 two weeks. The first week was devoted to the SEPA, GHG, and safety issues in the consolidated  
21 appeals. The second week was focused on technical challenges to the Approval Order under  
22 clean air laws.

1           9.       On November 19, 2021, the Board issued two separate orders addressing the  
2 SEPA issues and the Approval Order issues. With one exception with respect to the need for  
3 additional monitoring, the Board affirmed the Approval Order and the SEIS it relied on.

4           10.       Construction of the project appears to be complete. On information and belief,  
5 operations at the facility have not yet started. At the time of the April 2021 hearing, PSE had no  
6 customers for marine fuel from the project.

7 **(7) Jurisdiction and standing:**

8           11.       This Court has jurisdiction over this matter pursuant to RCW 43.21B.180 and  
9 RCW 34.05.510. Venue is proper in the Superior Court for Pierce County under 43.21B.514.

10          12.       Petitioners Advocates for a Cleaner Tacoma, Sierra Club, Stand.earth,  
11 Washington Physicians for Social Responsibility, and Washington Environmental Council are  
12 non-profit organizations that represent thousands of members and supporters dedicated to  
13 protecting the environment and communities living in and around the Port of Tacoma.  
14 Petitioners' members and supporters work, and live near to the Port of Tacoma, where the  
15 Tacoma LNG facility would be built. Many members are also ratepayers of Puget Sound  
16 Energy. The Project would undermine local and regional efforts to protect air quality and reduce  
17 the causes and effects of climate change.

18          13.       Issuance of the Approval Order injures Petitioners in several ways. First,  
19 operation and construction of the Tacoma LNG facility would store highly explosive methane  
20 gas in close proximity to densely populated urban neighborhoods, and would pose a risk of fire  
21 or explosion that threatens the safety of Petitioners' members and supporters. Second, operation  
22 of the facility would cause emission of hazardous pollutants including, but not limited to  
23 benzene, a carcinogen, and other criteria pollutants that contribute to smog formation. Emission  
24 of these pollutants would worsen air quality in and around the Port of Tacoma, which already has

1 poor air quality, and would thereby expose members living near to the Project to higher levels of  
2 dangerous pollutants that could adversely affect their health. Finally, the Project maintains and  
3 even increases Washington State’s contribution to global emissions of greenhouse gases and  
4 other pollutants. Operation of the Project would result in increased transportation and production  
5 of fracked gas, increased drilling and refining of fracked gas, and storage and combustion of  
6 liquefied methane, which in turn contributes to human induced climate instability that harms  
7 Petitioners’ commercial, recreational, aesthetic, spiritual, and other interests.

8 14. Members of ACT and the Puyallup Tribe already suffer from air pollution in their  
9 communities, and construction and operation of the LNG project would add further pollution and  
10 increase traffic impacts to the community. Moreover, PSE has never fully disclosed the safety  
11 risks of storing eight million gallons of gas in proximity to homes, schools, and businesses.

12 **(7) Reasons that relief should be granted:** The Board’s summary judgment and final orders  
13 contain a number of specific errors that should be corrected on appeal. These include but are not  
14 limited to the following:

15 *The Approval Order is Ultra Vires.*

16 15. The governing body of any air pollution control authority is a “board of directors”  
17 whose membership is dictated by state law. RCW 70.94.100. The statute vests regulatory  
18 authority in the board, declaring that “the board shall exercise all powers of the authority except  
19 as otherwise provided.” RCW 70.94.130 (emphasis added).

20 16. The Approval Order for the Tacoma LNG Facility was issued pursuant to RCW  
21 70.94.152, which governs applications to construction of new sources of air pollution. The  
22 statute directs the board of the local air authority to make a final decision on whether to approve  
23 applications to construct new sources. RCW 70.94.152(1), (3), (9).

24 17. However, the board of PSCAA did not issue the Approval Order for this facility

1 or otherwise take any action to approve it. Instead, it was issued by agency staff. This renders  
2 the permit *ultra vires* and invalid.

3 18. The PCHB rejected Petitioners' arguments about the proper authorization of  
4 pollution sources and upheld the Approval Order. The PCHB's decision was incorrect as a  
5 matter of law and should be reversed.

6 *The PCHB Had Jurisdiction to Review Petitioners' Challenge to the FEIS.*

7 19. The Tacoma FEIS evaluated a preliminary design of the Tacoma LNG Project,  
8 noting that the City of Tacoma would further consider the issue of safety risks and hazards once  
9 the facility completed its design plans. However, the City never prepared any further SEPA  
10 analysis, even after PSE changed its design in substantial ways. Petitioners flagged this issue as  
11 a matter of grave concern in their comments to PSCAA on the Supplemental EIS and proposed  
12 order. Yet PSCAA ignored these comments as irrelevant, expressing a belief that its review  
13 under SEPA was limited to analyzing greenhouse gas emissions, and otherwise deferring to the  
14 findings of the FEIS. Petitioners challenged PSCAA's failure to analyze such impacts.

15 20. In its March 26, 2021 Summary Judgment Order, the Board dismissed all appeal  
16 issues related to the Final EIS. The Board reasoned that RCW 43.21C.080(2)(a) imposed a time  
17 limit on any challenges to the FEIS that had run several years earlier.

18 21. The Board's rationale was incorrect as a matter of law. *See STAND.earth v. Wash.*  
19 *Shoreline Hearings Bd.*, Case No. 18-2-05991-34 (Thurston Co. Sup. Ct., Dec. 19, 2019)  
20 (“Nothing in the statute requires that a SEPA appeal be brought within the timeframe for  
21 challenging the first permit that relies on the Environmental Impact Statement.”). Because  
22 PSCAA relied on the FEIS in issuing its permit, and Petitioners timely appealed that permit,  
23 Petitioners' challenge to the FEIS was not time barred.

24 *The SEIS Erroneously Deems Status Quo GHG Emissions to be “Insignificant.”*



1           22.     The evidence before the Board was undisputed that the current science shows that  
2 drastic and immediate reductions in GHG emissions are needed to prevent a global climate  
3 catastrophe.

4           23.     Washington state has adopted a number of laws and policies explicitly calling for  
5 sharp reductions in GHG emissions. For example, Washington has by statute adopted a goal to  
6 reduce GHG emissions to 95 percent below 1990 levels and achieve net zero emissions by 2050,  
7 well within the lifetime of this project. RCW 70A.45.020. PSCAA has its own GHG reduction  
8 targets, calling for an 80 percent reduction in GHG emissions by 2050.

9           24.     This project sharply collides with those targets. It will maintain existing high  
10 emissions for decades, in contravention of the science as well as state and agency policies. Even  
11 so, the SEIS deemed the project’s emissions “insignificant,” and otherwise failed to disclose the  
12 conflict with state and agency policies, thereby sidestepping the full disclosure that SEPA  
13 required and depriving the agency of the ability to limit or mitigate those admissions, or deny the  
14 project altogether.

15           25.     The Board upheld the SEIS in this regard, finding its assessment of GHG  
16 emissions to be generally “reasonable.”

17           26.     This decision was wrong as a matter of law. In making a significance  
18 determination, agencies must consider whether a proposed action “conflict[s] with local, state or  
19 federal laws” for the protection of the environment. WAC 197-11-330(3)(e)(iii). Pursuant to  
20 WAC 197-11-030(2)(a), the agency must “[i]nterpret and administer the policies, regulations,  
21 and laws of the state of Washington in accordance with the policies set forth in SEPA and these  
22 rules.” The SEIS did not satisfy either standard.

23 *The SEIS Relies on an Arbitrary Comparison to a Speculative “No Action” Scenario.*

1           27.     The SEIS concluded that the project’s GHG emissions were considerable. It then  
2 compared those emissions to those that it claims would occur under a “no action” scenario, to  
3 determine “net” emissions. To enable this comparison, the SEIS assumes that 100 percent of the  
4 LNG produced by the facility will displace conventional fossil marine fuel, for the 40-year  
5 lifespan of the project.

6           28.     Petitioners demonstrated during the hearing that this comparative net approach  
7 was fundamentally misleading. For example, it compares a reasonably certain estimate of  
8 project emissions against an entirely speculative and uncertain estimate of “no action” emissions,  
9 without ever disclosing the asymmetry between the two estimates. It also considered such  
10 uncertain offsets to be mitigation, when SEPA specifically prohibits speculative mitigation.

11           29.     During the development of the SEIS, this problem was repeatedly criticized in  
12 public comments. In the final SEIS, PSCAA did not respond to or address these comments  
13 except to declare that PSCAA’s analysis was generally reasonable.

14           30.     The Board upheld the SEIS in the face of these challenges. It said nothing at all  
15 about the arbitrary comparison between the known project emissions and speculative no action  
16 emissions, and barely mentioned PSCAA’s response to comments. Its decision was arbitrary and  
17 capricious and contrary to law. Agencies must fully disclose “scientific uncertainty concerning  
18 significant impacts” in SEPA documents. WAC 197-11-080(2); WAC 197-11-330(3)(d); WAC  
19 197-11-060(4)(a) (SEPA requires consideration of impacts that are “likely” and not  
20 “speculative”).

21 **(8) Request for relief:** Petitioners respectfully request the following relief:

22           (A)     Declare the Approval Order *ultra vires* and invalid, vacate the Approval Order,  
23 and remand to PSCAA for further proceedings;

1 (B) Declare the SEIS arbitrary and invalid, vacate the SEIS, and remand to PSCAA to  
2 initiate a new SEIS;

3 (C) Find and declare that the PCHB invalidly dismissed ACT's challenges to the FEIS  
4 based on an incorrect legal conclusion as to timeliness, and remand to the PCHB for further  
5 proceedings;

6 (D) Enjoin PSE from operating the project without a valid Approval Order from  
7 PSCAA;

8 (E) Award Petitioners their attorneys' fees pursuant to RCW 4.84.350; and

9 (F) Grant any further relief deemed just and appropriate.

10 Respectfully submitted this 17th day of December, 2021.

11 s/ Jan E. Hasselman

12 Jan E. Hasselman, WSBA #29107

13 Jaimini Parekh, WSBA #53722

14 EARTHJUSTICE

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20 *Attorneys for Petitioners Advocates for a*  
21 *Cleaner Tacoma; Sierra Club; Washington*  
22 *Environmental Council; Washington*  
23 *Physicians for Social Responsibility;*  
24 *Stand.earth*

1 **POLLUTION CONTROL HEARINGS BOARD**  
2 **STATE OF WASHINGTON**

3 ADVOCATES FOR A CLEANER  
4 TACOMA, SIERRA CLUB,  
5 WASHINGTON ENVIRONMENTAL  
6 COUNCIL, WASHINGTON PHYSICIANS  
7 FOR SOCIAL RESPONSIBILITY,  
8 STAND.EARTH, and THE PUYALLUP  
9 TRIBE OF INDIANS,

10 Appellants,

11 v.

12 PUGET SOUND CLEAN AIR AGENCY  
13 and PUGET SOUND ENERGY,

14 Respondents.

PCHB No. 19-087c

ORDER ON MOTION TO DISMISS AND  
FOR PARTIAL SUMMARY JUDGMENT

15 **I. INTRODUCTION**

16 On December 19, 2019, Advocates for a Cleaner Tacoma, Sierra Club, Washington  
17 Environmental Council, Washington Physicians for Social Responsibility, and Stand.Earth  
18 (collectively, ACT) appealed Puget Sound Clean Air Agency's (PSCAA) Order of Approval to  
19 Construct No. 11386 (Permit) the Tacoma Liquefied Natural Gas project (Tacoma LNG) issued  
20 to Puget Sound Energy (PSE) on December 10, 2019.

21 On December 19, 2019, The Puyallup Tribe of Indians (Tribe) also appealed the Permit.  
The two appeals were consolidated.<sup>1</sup> ACT and the Tribe will be referred collectively as  
Appellants.

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<sup>1</sup> To avoid issues related to possible improper service, ACT also intervened in the Tribe's appeal of the Permit. *See* Order Granting Intervention, PCHB No. 19-087c (January 24, 2020).

1 PSE filed a Motion to Dismiss and for Partial Summary Judgment (PSE's Motion).  
2 PSCAA joined PSE's Motion. The Tribe opposed PSE's Motion. ACT joined the Tribe's  
3 opposition and filed a cross motion for partial summary judgment on Issue 1 (ACT's Cross  
4 Motion).

5 Attorneys Jan E. Hasselman and Jaimini Parekh represented ACT. Attorneys Andrew S.  
6 Fuller, Geoff Bridgman and Nicholas G. Thomas represented the Tribe. Attorneys Erin L.  
7 Anderson, Tadas A. Kisielius, Sara Leverette and Clara Park represented PSE. Attorneys  
8 Jennifer A. Dold and Jennifer Elias represented PSCAA. The Pollution Control Hearings Board  
9 (Board) considering the motions was comprised of Board Chair Neil L. Wise and members  
10 Carolina Sun-Widrow and Michelle Gonzalez. Heather C. Francks, Administrative Appeals  
11 Judge, presided for the Board.

12 The Board reviewed the following materials in deliberating on the Motions:

- 13 1. Puget Sound Energy's Motion to Dismiss and for Partial Summary Judgment (*PSE's*  
14 *Motion*);
- 15 2. Declaration of Tadas A. Kisielius in support of Puget Sound Energy's Motion to  
16 Dismiss and for Partial Summary Judgment and Exhibits 1-18 (*Kisielius Decl.*);
- 17 3. Puget Sound Clean Air Agency's Joinder in Puget Sound Energy's Motion to Dismiss  
18 and for Partial Summary Judgment (*PSCAA's Joinder*);
- 19 4. Appellant the Puyallup Tribe of Indians' Response to Respondent Puget Sound  
20 Energy's Motion to Dismiss and for Partial Summary Judgment (*Tribe's Response*);  
21

- 1           5. Declaration of Ranajit Sahu in support of Appellant the Puyallup Tribe of Indians’  
2           Response to Respondent Puget Sound Energy’s Motion to Dismiss and for Partial  
3           Summary Judgment and Exhibits A-B (*Sahu Decl.*);
- 4           6. Declaration of Andrew S. Fuller in support of Appellant the Puyallup Tribe of  
5           Indians’ Response to Respondent Puget Sound Energy’s Motion to Dismiss and for  
6           Partial Summary Judgment and Exhibits A-Q (*Fuller Decl.*);
- 7           7. Declaration of Nicholas G. Thomas in Support of Appellant The Puyallup Tribe of  
8           Indians’ Response to Respondent Puget Sound Energy’s Motion to Dismiss and for  
9           Partial Summary Judgment;
- 10          8. [ACT’s] Opposition to Motion to Dismiss and for Partial Summary Judgment (*ACT’s*  
11          *Opp. / Cross Motion*);
- 12          9. Declaration of Jaimini Parekh in support of Opposition to Motion to Dismiss and for  
13          Partial Summary Judgment and Exhibits 1-20 (*Parekh Decl.*);
- 14          10. Puget Sound Clean Air Agency’s Reply in support of Puget Sound Energy’s Motion  
15          to Dismiss and for Partial Summary Judgment (*PSCAA Reply*);
- 16          11. Declaration of Jennifer A. Dold and Exhibits A-F (*Dold Decl.*);
- 17          12. Puget Sound Energy’s Response to ACT’s Cross Motion and Reply in support of  
18          Motion to Dismiss and for Partial Summary Judgment (*PSE Response/Reply*);
- 19          13. Declaration of Tadas A. Kisielius in support of Puget Sound Energy’s Reply in  
20          support of Motion to Dismiss and for Partial Summary Judgment and Exhibits A-J  
21          (*Second Kisielius Decl.*);

1 14. [ACT's] Reply in support of Cross Motion for Partial Summary Judgment and sur-  
2 reply in support of Opposition to Respondent's Motion to Dismiss (*ACT*  
3 *Reply/Surreply*);

4 15. Appellant the Puyallup Tribe of Indians' surreply, objections and Motion to Strike  
5 Improper reply arguments by PSE and PSCAA in support of Respondent Puget Sound  
6 Energy's Motion to Dismiss/Partial Summary Judgment (*Tribe Surreply/ Strike*  
7 *Motion*)<sup>2</sup>;

8 16. Puget Sound Energy's and Puget Sound Clean Air Agency's Joint Response to  
9 Puyallup Tribe's Motion to Strike (*PSE/PSCAA Response to Strike Motion*);

10 17. Puyallup Tribe's Reply in support of Motion to Strike Improper reply arguments by  
11 PSE and PSCAA in support of Respondent Puget Sound Energy's Motion to  
12 Dismiss/Partial Summary Judgment (*Tribe Strike Reply*);

13 18. Declaration of Nicholas G. Thomas in support of Puyallup Tribe's Reply in support  
14 of Motion to Strike Improper reply arguments by PSE and PSCAA in support of  
15 Respondent Puget Sound Energy's Motion to Dismiss/Partial Summary Judgment and  
16 Exhibit A (*Thomas Decl.*);

17 19. Puget Sound Energy's Notice of Partial Withdrawal of Motion to Dismiss and for  
18 Partial Summary Judgment with respect to Issue 4(b) and limited reply to Puyallup  
19

20 \_\_\_\_\_  
21 <sup>2</sup> The Tribe filed a motion to strike improper reply arguments by PSE and PSCAA. The presiding officer hereby denies the motion on the grounds that the replies responded to arguments raised by Appellants in their responses and cross motion.

1 Tribe of Indian's supplemental response;<sup>3</sup> second motion for CR 56(f) continuance  
2 (*PSE Withdrawal Notice*);

3 20. Declaration of Tadas A. Kisielius in support of Puget Sound Energy's Withdrawal of  
4 Motion to Dismiss and for Partial Summary Judgment with respect to Issue 4(b) and  
5 reply to Puyallup Tribe's supplemental response and Exhibits 1-2 (*Third Kisielius*  
6 *Decl.*);

7 21. Puget Sound Clean Air Agency's Joinder in Puget Sound Energy's Notice of  
8 Withdrawal of Motion to Dismiss and for Partial Summary Judgment with respect to  
9 Issue 4(b) (*PSCAA Withdrawal Joinder*);

10 22. Van Slyke Decl. in Support of PSCAA's Response to Motions for Stay; (*Van Slyke*  
11 *Stay Decl.*); and

12 23. The Board's file in the matter.

13 Based upon the evidence submitted and the written materials filed, the Board enters the  
14 following decision:

## 15 **II. BACKGROUND**

16 PSE proposes to construct Tacoma LNG, a liquefaction, storage and marine bunkering  
17 facility and marine fueling system, on land leased from the Port of Tacoma. The purpose of the  
18 project is to receive natural gas from PSE's distribution system, chill the natural gas to produce  
19 approximately 250,000 to 500,000 gallons of LNG daily, and to store up to 8 million gallons of

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20  
21 <sup>3</sup> As PSE withdrew its motion as to Issue 4(b), the Board did not consider Puyallup Tribe of Indian's Supplemental Response to PSE's Motion to Dismiss and/or Partial Summary Judgment re Issue 4(b) and second Motion for CR 56(f) continuance or the related declarations.



1 LNG on site. PSE planned to distribute LNG for use as marine transportation fuel by Totem  
2 Ocean Trailer Express (TOTE) at its Port of Tacoma Facility, along with other potential future  
3 regional LNG marine fuel customers. During times of peak gas demand, 66,000 dekatherms of  
4 LNG would be regasified and reinjected into PSE's distribution system. PSE is also proposing to  
5 load LNG onto trucks and barges for use by other regional markets seeking an alternative fuel  
6 source. As of December 2020, the TOTE vessel conversion to LNG was delayed until early  
7 2022. *Bridgman Decl., Ex. 9 (Littauer Dep. p. 20)*. PSE is seeking other marine customers as  
8 well as trucking companies who would use LNG to fuel their vehicles. *Id., (Littauer Dep. pp.*  
9 *21-22)*. PSE has a customer, Potelco, who anticipates using LNG to fuel its fleet of trucks.  
10 *PSE's Response to Puyallup Tribe's Motion to Bifurcate the Issues, p. 11*.

11 Tacoma LNG is located on the peninsula between the Blair and Hylebos waterways  
12 adjacent to the Puyallup Indian Reservation. *Advocates for a Cleaner Tacoma v. Puget Sound*  
13 *Clean Air Agency*, PCHB No. 19-087c, p. 5 (March 16, 2020).

14 Tacoma LNG required a number of permits from various agencies and jurisdictions.  
15 Among them was a shoreline substantial development permit that PSE sought from the City of  
16 Tacoma. In September 2014, the City of Tacoma, acting as lead agency under the State  
17 Environmental Policy Act (SEPA), ch. 43.21C RCW, determined that Tacoma LNG required an  
18 Environmental Impact Statement to assess the potential environmental impacts of the project.  
19 The review resulted in a Final Environmental Impact Statement (FEIS) in 2015. *Advocates for a*  
20 *Cleaner Tacoma*, PCHB No. 19-087c, pp. 5-6.

1           Meanwhile, construction of the project proceeded and is expected to be completed in the  
2 second quarter of 2021. In early 2020, the remaining work included construction of foundations  
3 and installation of equipment that was subject to the Permit; completion of plant-wide piping,  
4 electrical and controls systems; final site civil work and landscaping; frontage improvements;  
5 plant commissioning and testing. In 2017, PSE applied to PSCAA for a Notice of Construction  
6 (NOC) for Tacoma LNG. During PSCAA’s review of PSE’s Permit application, PSCAA  
7 concluded that the FEIS did not account for “upstream” greenhouse gas (GHG) emissions  
8 associated with natural gas extraction and transmission. PSCAA decided that a supplemental  
9 EIS using the “lifecycle” approach to characterizing GHG emissions was needed. Lifecycle  
10 analysis identifies and quantifies all GHG emissions associated with natural gas extraction and  
11 transmission, on site LNG production and storage, and “downstream” end uses of the LNG.  
12 PSCAA initiated a Final Supplemental Environmental Impact Statement (SEIS) process and  
13 hired consultants to assess lifecycle GHG emissions. Since the FEIS process, the Tacoma LNG  
14 project had changed to primarily supply fuel for marine and other uses rather than the peak  
15 shaving (supplying additional gas for PSE’s customers during periods of peak demand)  
16 addressed in the FEIS. PSCAA issued a draft SEIS for public comment in late 2018. *Advocates*  
17 *for a Cleaner Tacoma* PCHB No. 19-087c, pp. 6-7.

18           The draft SEIS compared a No Action alternative to PSE’s Proposed Action, construction  
19 of the Tacoma LNG facility to produce 250,000 to 500,000 gallons per day of LNG for use by  
20 marine customers, including TOTE, as well as regasification into the PSE natural gas system for  
21 peak shaving purposes. Additional uses would include providing LNG to other industries or

1 merchants such as fuel for long haul trucks or other marine transportation uses. Two scenarios  
2 were included in the SEIS lifecycle analysis: Scenario A (based on a PSE facility production rate  
3 of 250,000 gallons per day) and Scenario B (based on a PSE facility production rate of 500,000  
4 gallons per day). The draft SEIS concluded that the use of LNG produced by the Proposed  
5 Action, instead of petroleum based fuels for marine vessels, trucks and peak shaving, is predicted  
6 to result in an overall decrease in GHG emissions in the Puget Sound region, a net beneficial  
7 impact compared to the No Action alternative. In response to comments, PSCAA had its  
8 consultants perform various new analyses to confirm the findings of the draft SEIS and to update  
9 the sensitivity analysis with new assumption comparisons including global warming and  
10 methane leakage.<sup>4</sup> The SEIS was finalized in March 2019. PSCAA issued a draft Permit  
11 Approval for public comment in July 2019. PSCAA issued the final Permit in December 2019.  
12 *Advocates for a Cleaner Tacoma*, PCHB No. 19-087c pp. 7-8. The Permit was signed by  
13 PSCAA staff, Ralph Munoz, Reviewing Engineer, and Carole Cenci, Compliance Manager.  
14 *Kisielius Decl., Ex. 9, p. 9.*

15 ACT and the Tribe separately appealed the Permit, challenging the SEIS and the Permit  
16 on numerous grounds. The Board consolidated the appeals for hearing.

### 17 III. ANALYSIS

18 The issues before the Board in this Motion are as follows:  
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21 <sup>4</sup> The sensitivity analysis illustrates in a summary fashion how different variables could affect the overall GHG emissions in the lifecycle analysis, both up and down. *Advocates for a Cleaner Tacoma*, PCHB No. 19-087c, p. 8 n.4.

- 1 1. Whether the Puget Sound Clean Air Agency's ("PSCAA") December 10, 2019 Order  
2 of Approval ("Order of Approval") is ultra vires and invalid because it was issued by  
PSCAA staff and not the PSCAA Board.
- 3 2. Whether the supplemental environmental impact statement ("SEIS") assessing  
4 lifecycle greenhouse gas emissions that supported the Order of Approval was  
arbitrary, unreasonable, incorrect, or otherwise not in compliance with the State  
5 Environmental Policy Act ("SEPA"), including but not limited to the following:
  - 6 a. The SEIS relies on an incorrect and unsupported claim of 1-for-1 fuel  
displacement, and an assumption that fuel use will not change over 40 years, that  
7 masks the greenhouse gas ("GHG") impacts of the Order of Approval.
  - 8 b. The SEIS fails to utilize best available science in assessing GHG impacts.
  - 9 c. The SEIS fails to acknowledge that maintenance of high-GHG-emissions status  
quo for the lifetime of the project is a "significant" impact under SEPA.
  - 10 d. The SEIS relies on displacement and/or mitigation that is unavailable under the  
project as currently configured, and otherwise fails to assess the current  
11 configuration of the project.
  - 12 e. The SEIS fails to properly address the facility's emissions of N2O, a potent  
greenhouse gas.
  - 13 f. The SEIS relies on scenarios that have not undergone SEPA review.
- 14 3. Whether the final environmental impact statement ("FEIS"), produced by the City of  
Tacoma, was arbitrary, unreasonable, incorrect, or otherwise not in compliance with  
15 SEPA, including but not limited to the following:
  - 16 a. PSCAA's reliance on the FEIS is erroneous when the project has changed  
substantially in scope and purpose since issuance of the FEIS in November of  
17 2015.
  - 18 b. The FEIS fails to adequately disclose and analyze all non-GHG air and water  
emissions and impacts.
  - 19 c. The FEIS fails to adequately disclose and analyze project safety and accident risk,  
and deliberately withheld key documentation related to safety.
  - 20 d. The FEIS fails to evaluate the direct, indirect, and cumulative impacts of trains,  
vessels, and trucks traveling to and from Tacoma LNG.
  - 21 e. The FEIS fails to adequately disclose cumulative effects.
  - f. The FEIS did not follow mandatory SEPA procedures in the FEIS process,  
including but not limited to inadequate notice.
4. Whether the Puget Sound Clean Air Agency's ("PSCAA") December 10, 2019 Order  
of Approval ("Order of Approval") violates PSCAA Regulations, the Washington  
Clean Air Act (RCW Ch. 70.94), and/or the federal Clean Air Act, including but not  
limited to the following:

- 1 a. Whether PSCAA's conclusions concerning Tacoma LNG's emissions and the  
2 impacts from those emissions are erroneous when PSCAA relied on modeling  
3 using non- representative meteorological data.
- 4 b. Whether PSCAA's Order of Approval is premature when the design of Tacoma  
5 LNG was not yet complete and continued to change at the time PSCAA  
6 determined PSE's NOC Application was complete and when the Order of  
7 Approval was issued, and it was likely that the facility's design and its operations  
8 would need to undergo revisions, which would likely result in changes to facility  
9 details having bearing on the facility's emissions.
- 10 c. Whether PSCAA's Order of Approval is invalid, when PSCAA's decision to grant  
11 the Order of Approval was made in reliance on performance specification and  
12 process details that were not provided to PSCAA, including those from Chicago  
13 Bridge & Iron and other unidentified "vendors."
- 14 d. Whether PSCAA erred in concluding that Tacoma LNG is not a Major Source of  
15 one or more pollutants, including volatile organic compounds (VOCs)?
- 16 e. Whether PSCAA erroneously concluded that Tacoma LNG's emissions are below  
17 the Clean Air Act's regulatory thresholds, emission, and air quality standards.
- 18 f. Whether PSCAA erroneously concluded that the emissions from Tacoma LNG  
19 will not violate WAC 173-400-111, WAC 173-400-112, and WAC 173-400-113  
20 (i.e., not cause or contribute to a violation of any ambient air quality standard).
- 21 g. Whether PSCAA erroneously concluded that Tacoma LNG's emissions will not  
exceed applicable acceptable source impact levels (ASIL).
- h. Whether PSCAA erroneously concluded that Tacoma LNG's emissions will not  
exceed applicable small quantity emission rate (SQER) limits.
- i. Whether PSCAA's Order of Approval is invalid, where a first-tier ambient  
concentration screening analysis was performed before all emissions of HAPs and  
TAPs from the flare were estimated.
- j. Whether PSCAA violated WAC 173-460-060 by failing to require a  
demonstration that Tacoma LNG will employ BACT for all TAPs for which the  
increase in emissions will exceed *de minimis* emission values found in WAC 173-  
460-150.
- k. Whether the Order of Approval's requirement that "the sole source of natural gas  
supply used in all operations at the Tacoma LNG facility comes from British  
Columbia or Alberta, Canada" is enforceable.
- l. Whether PSCAA's issuance of the Order of Approval is contrary to principles of  
environmental justice, including Executive Order 12898 as well as PSCAA's  
mandate concerning avoiding environmental injustices.
- m. Whether PSCAA's issuance of the Order of Approval violates its obligations  
under Title VI of the Civil Rights Act (42 U.S.C. § 2000d et seq.)?
- n. Whether PSCAA's issuance of the Order of Approval violates the Tribe's right to  
the equal protection of the laws?

- o. Whether PSCAA's Order of Approval incorrectly fails to include the requirements of NSPS Subpart OOOOa (40 C.F.R. § 60.5430a et seq.) relating to the handling of acid gas from the facility.
  - p. Whether PSCAA's Order of Approval incorrectly fails to include a requirement that Tacoma LNG monitor and control fugitive GHG and VOC emissions in accordance with NSPS Subpart OOOOa (40 C.F.R. § 60.5430a et seq.).
  - q. Whether PSCAA's Order of Approval incorrectly fails to require Tacoma LNG to comply with the National Emission Standards for Hazardous Air Pollutants (NESHAP) rules on marine tank vessel loading operations (40 C.F.R. § 63.560 et seq.).
  - r. Whether PSCAA's Order of Approval incorrectly fails to require the submission of risk management and hazard management plans as required under 40 C.F.R. Part 68.
  - s. Whether PSCAA's Order of Approval incorrectly fails to include the requirements of NSPS Subpart 1111 (40 C.F.R. 60.4200 et seq.) relating to the monitoring and performance of the facility's on-site emergency diesel generator.
  - t. Whether PSCAA's Order of Approval incorrectly fails to include the requirements of NSPS Subpart ZZZZ (40 C.F.R. 63.6580 et seq.) relating to the monitoring and performance of the facility's on-site emergency diesel generator.
  - u. Did PSCAA violate the Clean Air Act by allowing a known source of significant amounts of pollution to achieve BACT through "good combustion practices", when PSCAA fails to define that standard and when there are known and reasonably available methods which, if implemented, would better ensure the facility is not violating pollution standards?
  - v. Whether the Order of Approval is valid in light of PSCAA's failure to consider the impacts on the airshed of trains traveling to and from Tacoma LNG.
  - w. Whether PSCAA erred in claiming that it cannot consider cumulative effects of air pollution without "[n]ew legislation."
5. Whether respondents violated the Clean Air Act by constructing, and/or authorizing construction, prior to issuance of the Order of Approval.

In PSE's Motion, PSE moved to dismiss Issues 1; 3(b); 3(c); 3(d); 3(e); 3(f); 4(b)<sup>5</sup>; 4(f); 4(k); 4(l); 4(m); 4(n); 4(o); 4(p); 4(q); 4(r); 4(s); 4(t); 4(v); and 5. PSCAA joined PSE's Motion. The Tribe opposed PSE's Motion. In the course of briefing, the Tribe noted it did not

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<sup>5</sup> PSE sought summary judgment on Appellants' Issue 4(b) on the basis that it improperly asks for an advisory opinion from the Board. Later PSE withdrew its Motion as to Issue 4(b). *PSE Withdrawal notice*.

1 oppose dismissal of Issues 4(n), 4(q), 4(r), 4(s), 4(t) and 5. *Tribe's Response*, p. 2. ACT filed a  
2 cross motion for partial summary judgment on Issue 1 and joined the Tribe's opposition. In its  
3 response to ACT's cross motion, PSE clarified that it inadvertently listed Issue 4(v) as among  
4 those it sought summary judgment, and that it was not seeking to dismiss 4(v) in its motion.  
5 *PSE's Response/Reply*, p.1, n.2. ACT sought and was granted a continuance to obtain  
6 discovery on Issue 4(b). *Order on Motion for Continuance and to Consolidate* (July 16, 2020).  
7 After determining that additional relevant discovery remained outstanding on Issue 4(b), PSE  
8 withdrew its Motion as to Issue 4(b). *PSE Withdrawal Notice*.

9 The issues remaining for the Board to decide in this Motion are: 1; 3(b); 3(c); 3(d); 3(e);  
10 3(f); 4(f); 4(k); 4(l); 4(m); 4(o); and 4(p).

11 **A. Standard of review<sup>6</sup>**

12 Summary judgment is a procedure available to avoid unnecessary trials where there is no  
13 genuine issue of material fact. *Am. Express Centurion Bank v. Stratman*, 172 Wn. App. 667,  
14 675-76, 292 P.3d 128 (2012). The summary judgment procedure is designed to eliminate trial if  
15 only questions of law remain for resolution, and neither party contests the facts relevant to a  
16 legal determination. *Rainier Nat'l Bank v. Security State Bank*, 59 Wn. App. 161, 164, 796 P.2d  
17 443 (1990), *review denied*, 117 Wn.2d 1004 (1991).

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21 <sup>6</sup> Because the parties relied on evidence outside of the pleadings (i.e., numerous declarations and attachments) and the Board reviewed those materials in considering PSE's Motion, ACT's cross motion, and other pleadings, the Board will treat the motions as requests for summary judgment even though PSE's Motion is partially entitled a motion to dismiss. *See*, CR 12(b) and (c) (if on a motion to dismiss matters outside the pleadings are presented to and not excluded by the court, motion shall be treated as one for summary judgment and disposed of as provided in CR 56)

1           The party moving for summary judgment must show there are no genuine issues of  
2 material fact and the moving party is entitled to judgment as a matter of law. *Magula v. Benton*  
3 *Franklin Title Co., Inc.*, 131 Wn.2d 171, 182, 930 P.2d 307 (1997). A material fact in a  
4 summary judgment proceeding is one affecting the outcome under the governing law. *Eriks v.*  
5 *Denver*, 118 Wn.2d 451, 456, 824 P.2d 1207 (1992).

6           Summary judgment is subject to a burden shifting scheme. If the moving party satisfies  
7 its burden, then the non-moving party must present evidence demonstrating that material facts  
8 are in dispute. *Atherton Condo Ass'n v. Blume Dev. Co.*, 115 Wn.2d 506, 516, 799 P.2d 250  
9 (1990); *Tario v. Dep't of Ecology*, PCHB No. 05-091, p. 12 (March 2, 2006). In a summary  
10 judgment proceeding, all facts and reasonable inferences must be construed in favor of the non-  
11 moving party. *Jones v. Allstate Ins. Co.*, 146 Wn.2d 291, 300, 45 P.3d 1068 (2002).

12           **B. Issue 1—Validity of Order issued by PSCAA staff**

13           Issue 1 asks whether PSCAA's Permit is ultra vires and invalid under the Washington  
14 Clean Air Act, former ch. 70.94 RCW because it was issued by PSCAA staff and not the PSCAA  
15 Board.<sup>7</sup> PSE moves for summary dismissal on Issue 1, joined by PSCAA. PSCAA also  
16 separately filed a reply in support of PSE's Motion, in which PSCAA also urges dismissal of  
17 Issue 1 as a matter of law. ACT cross moves on Issue 1, joined by the Tribe. At bottom, Issue 1  
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21 <sup>7</sup> In 2020, the Legislature recodified former ch. 70.94 RCW as ch. 70A.15 RCW with no substantive changes. *See*  
Laws of 2020, ch. 20, (June 11, 2020). Because former ch. 70.94 RCW was in effect at the time of the relevant  
events here, citations will be to the former statute.



1 turns on interpretation of Clean Air Act statutes and implementing PSCAA regulations; thus, this  
2 issue can be decided as a matter of law as the parties urge.<sup>8</sup>

3 PSE and PSCAA both argue that Issue 1 should be dismissed as Clean Air Act statutes  
4 and implementing regulation authorize PSCAA staff to issue the Order of Approval at issue.<sup>9</sup>  
5 PSE further argues that because statute and implementing PSCAA regulation plainly authorize  
6 PSCAA staff to issue Order of Approvals, Appellants' challenge to the Order of Approval at  
7 issue amounts to a facial challenge to the statute and PSCAA regulation over which the Board  
8 lacks jurisdiction. *PSE's Motion, pp. 11-12; PSCAA Reply, pp. 21-26.*

9 ACT argues that the Permit is invalid because it was signed by PSCAA staff rather than  
10 the PSCAA Board, contending that former RCW 70.94.152 requires that the PSCAA Board issue  
11 the approval order on PSE's notice of construction application for a new source of air  
12 contaminant emission. The Board concludes that former RCW 70.94.170 and Agency Reg. I, §  
13 3.01 authorize PSCAA staff to issue the Order of Approval.

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16 <sup>8</sup> On March 16, 2020, the Board issued an Order Denying Motions to Stay the effect of the Permit. *Advocates for*  
17 *Cleaner Tacoma v. Puget Sound Clean Air Agency* (March 16, 2020). Appellants jointly petitioned for judicial  
18 review of the Order under RCW 43.21B.320(5), and for summary judgment (party aggrieved by denial or grant of  
19 stay by the Board may petition Thurston County Superior Court for review under the Administrative Procedure Act,  
20 ch. 34.05 RCW pending appeal on the merits before the Board). The superior court issued an Order Denying  
21 Summary Judgment and Motion for Expedited Relief in which the court rejected the Appellants' claim that the  
Permit is ultra vires and invalid, concluding that the plain terms of RCW 70.94.170 allows for issuance of the Permit  
in the manner done so here by PSCAA. *See Advocates for Cleaner Tacoma v. Puget Sound Clean Air Agency*, No.  
20-2-01371-34 (Thurston County Sup. Ct. Nov. 2, 2020). Appellants then appealed the decision to Court of Appeals,  
Div. II, Case No. 55448-8-II.

<sup>9</sup> Permits issued to sources of air contaminants under the state Clean Air Act are called Notice of Construction  
(NOC) Orders of Approval. Van Slyke Decl. in Support of PSCAA's Response to Motions for Stay, ¶4. A NOC  
application is required by the Act to establish a new source of air emissions, or to replace or substantially alter a  
source's control equipment that prevents or controls emission of any air contaminant. Former RCW 70.94.152-.153;  
PSCAA Reg. I, § 6.03, p. 6-3.

1           The fundamental purpose in interpreting statutes is to ascertain and carry out the intent of  
2 the legislature. *Quinault Indian Nation v. Imperium Terminal Servs., LLC*, 187 Wn.2d 460, 468,  
3 387 P.3d 670 (2017). If a statute’s meaning is plain on its face, courts give effect to that plain  
4 meaning as an expression of legislative intent. *Id.* The plain meaning of words in a statute is not  
5 gleaned from words alone but from “all the terms and provisions of the act in relation to the  
6 subject of the legislation, the nature of the act, the general object to be accomplished and  
7 consequences that would result from construing the particular statute in one way or another.”  
8 *State v. Evergreen Freedom Found.*, 192 Wn.2d 782, 790, 432 P.3d 805, 809 (2019).

9           The Clean Air Act authorizes creation of local air authorities like PSCAA to implement  
10 the requirements of the Act to regulate stationary sources of air contaminant emissions. Former  
11 RCW 70.94.053; former RCW 70.94.141. Former RCW 70.94.170 provides that:

12           [a]ny activated air authority which has adopted an ordinance, resolution, or valid  
13 rules and regulations . . . for the control and prevention of air pollution shall  
14 appoint a full time control officer, whose sole responsibility shall be to observe  
15 and enforce the provisions of this chapter and all orders, ordinances, resolutions,  
16 or rules and regulations of such activated authority pertaining to the control and  
17 prevention of air pollution.

18           Former RCW 70.94.170; *see also* former RCW 70.94.130 (air pollution control authority board  
19 “may appoint a control officer, and any other personnel,” and pay their salaries from authority  
20 funds).

21           Consistent with former RCW 70.94.170, PSCAA in 1968 adopted Regulation I, § 3.01,  
which mainly mirrors the statute. The regulation has been amended a few times, but the current  
regulation, which was in effect at the time relevant to the events of this case, provides that:

1 Pursuant to the provisions of the “Washington Clean Air Act” (Chapter 70.94  
2 RCW), the Board has appointed a Control Officer whose sole responsibility is to  
3 observe and enforce the provisions of the Act and all orders, rules, and regulations  
4 pursuant thereto, including but not limited to Regulations I, II, and III of the Puget  
5 Sound Clean Air Agency. The Control Officer is empowered by the Board to sign  
6 official complaints, issue citations, initiate court suits, or use other legal means to  
7 enforce the provisions of the Act.

8 PSCAA Reg. I, Art. 3, § 3.01 (“Duties and Powers of the Control Officer”).

9 The plain terms of RCW 70.94.170 authorize PSCAA to appoint a full time control  
10 officer responsible for observing and enforcing “all orders, ordinances, resolutions, or rules and  
11 regulations” of air authorities. In other words, once a local air authority has adopted rules and  
12 regulations consistent with the Clean Air Act, the control officer implements those rules and  
13 regulations. And PSCAA Regulation I, § 3.01, which implements former RCW 70.94.170,  
14 further specifies that the “orders” that a control officer is responsible for implementing include  
15 PSCAA “Regulations I, II, and III.” Because the PSCAA regulation addressing issuance of  
16 Orders of Approval for PSE’s Notice of Construction application is contained in Regulation I,  
17 Article 6 (New Source Review), Regulation I, § 3.01 specifically authorizes the control officer to  
18 issue orders of approval.

19 Here, the challenged Order of Approval for Notice of Construction 11386 was issued by  
20 a reviewing engineer and a compliance manager. *Kisielius Decl., Ex. 9*. Although “control  
21 officer” is only defined as the “air pollution control officer of any authority,” the parties do not  
dispute that PSCAA staff engineers constitute control officers.<sup>10</sup> They are therefore authorized

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<sup>10</sup> Former RCW 70.94.030(9).

1 to issue the order of approval here under former RCW 70.94.170 and PSCAA Regulation I, §  
2 3.01.<sup>11</sup>

3           Construing former RCW 70.94.170 as allowing PSCAA staff engineers to issue orders of  
4 approval also comports with the fact that notice of construction applications and resulting orders  
5 of approval involve a complex review of relevant law and many different types of sources and  
6 equipment to determine whether the new source of air contaminant will cause any exceedances  
7 of ambient air standards. *Van Slyke Stay Decl.*, ¶¶ 3-6, 8-10; former RCW 70.94.152(4). The  
8 Order of Approval here is indicative of the complexity, as it authorizes PSE to construct the  
9 following equipment: one 66 MMBtu/hr LNG vaporizer, an enclosed ground flare with four  
10 burners, one 9MMBtu/hr water propylene glycol pretreatment heater, one 1.6 MMBtu/hr  
11 regeneration pretreatment heater and one 8 million gallon LNG storage tank. *Kisielius Decl., Ex.*  
12 *9, p. 1*. Since the determination of whether to approve the air emissions from the listed new  
13 equipment, and whether to place conditions on the approval is a technical and complex one,  
14 Board staff with the required expertise are better suited than the PSCAA Board to issue orders of  
15 approval. *ACT's Opp. /Cross Mot., p. 8* (PSCAA Board members are elected officials under  
16 WAC 173-440-220(a)).

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18 <sup>11</sup> This Board has previously concluded that an air authority's control officer is authorized to issue order of  
19 approvals under former RCW 70.94.152 and former RCW 70.94.170. *Inland Foundry Co. v. Spokane County*  
20 *Pollution Control Auth.*, PCHB No. 98-279, p. 2 (Conclusions of Law and Order Granting SCPCA's Mot. for  
21 Summ. J., June 10, 1999) ("SCAPCA's control officer is authorized to approve a notice of construction and issue a  
letter of approval pursuant to RCW 70.94.152 and RCW 70.94.170"). The Board's decision was affirmed by the  
Court of Appeals in an unpublished decision. *Inland Foundry Co. v. Spokane County Pollution Control Auth.*, No.  
19210-5-III, 106 Wn. App. 1007, 2001 Wash. App. LEXIS 924, (Ct. App. May 1, 2001). In its Order denying Stay,  
the Board provided an incorrect cite to the unpublished decision affirming the Board's case. *Order denying Stay*, p.  
15 n. 6 (March 16, 2020) (incorrectly citing 98 Wn. App. 1019, 1999 WL 1080108, at \*2 (1999)).

1           The Board disagrees with Appellants’ arguments to the contrary. Specifically,  
2 interpreting former RCW 70.94.170 to allow control officers to issue orders of approval will not  
3 create a slippery slope where control officers would assume other PSCAA duties such as  
4 adopting regulations. As Respondents note, the language of former RCW 70.94.170 prevents  
5 such slippery slope by specifying that control officers only observe and enforce those rules and  
6 regulations that have first been adopted by an air authority.

7           Appellants rely on former RCW 70.94.152 to support their claim that only the PSCAA  
8 Board can issue order of approvals. That statute sets out the process to apply for a Notice of  
9 Construction Order of Approval for a new source of air contaminant, and states in relevant part  
10 that:

11           (3) Within thirty days of receipt of a notice of construction application, the  
12 department of ecology or board may require, as a condition precedent to the  
13 establishment of the new source or sources covered thereby, the submission of  
14 plans, specifications, and such other information as it deems necessary to  
15 determine whether the proposed new source will be in accord with applicable  
16 rules and regulations in force under this chapter. If on the basis of plans,  
17 specifications, or other information required under this section, the department of  
18 ecology or *board* determines that the proposed new source will be in accord with  
19 this chapter, and the applicable rules and regulations adopted under this chapter, *it*  
20 shall issue an order of approval for the establishment of the new source or  
21 sources, which order may provide such conditions as are reasonably necessary to  
assure the maintenance of compliance with this chapter and the applicable rules  
and regulations adopted under this chapter. Every order of approval under this  
chapter must be reviewed prior to issuance by a professional engineer or staff  
under the supervision of a professional engineer in the employ of the department  
of ecology or board.

RCW 79.94.152(3) (emphasis added). “Board” means the Board of Directors of PSCAA, and  
“Authority” means any air pollution control agency whose jurisdictional boundaries are

1 coextensive with the boundaries of one or more counties. Former 70.94.030(5), (8); PSCAA  
2 Reg. I, § 1.07(a), (e). Appellants emphasize the word “board” and “it” in former RCW  
3 70.94.152(3) to argue that the plain language of the statute required that only PSCAA Board, not  
4 staff, issue the order of approval. *ACT’s Opp./Cross Motion, p. 6*. Such an interpretation is not  
5 supported by the terms of the statute, ignores former RCW 70.94.170, and runs contrary to the  
6 principle that plain meaning is derived from reading “all the terms and provisions of the act in  
7 relation to the subject of the legislation, the nature of the act, the general object to be  
8 accomplished and consequences that would result from construing the particular statute in one  
9 way or another.” *State v. Evergreen Freedom Found.*, 192 Wn.2d 782, 790.

10       Indeed, other subsections of former RCW 70.94.152 also refer to “board” with respect to  
11 actions the board takes in connection with a notice of construction for a new source. Former  
12 RCW 70.94.152(9) (“board shall notify . . . applicant in writing that the application is  
13 complete”); former RCW 70.94.152(10) (notice of construction approval required under  
14 subsection (3) must include determination that new source achieve best available control  
15 technology). In arguing that PSCAA Board approval of notice of construction is not delegable to  
16 staff because it calls for exercise of discretion, Appellants agreed with PSCAA that sending  
17 application completeness letters is the kind of ministerial act that the PSCAA Board can and  
18 should delegate, whereas issuing approval orders cannot be delegated because it calls for the  
19 exercise of discretion. Appellants’ position that the board task of sending out letters to  
20 applicants (also stated as a task that the “board shall” do) in subsection (9) can be done by  
21 PSCAA staff undercuts their argument that the terms of subsection (3) plainly require that only

1 the PSCAA board can issue orders of approval. *ACT Reply, p.12*. All subsections of former  
2 RCW 70.94.152 must be read consistently.

3 Because the Board resolves Issue 1 on the basis of the plain meaning of former 70.94.170  
4 and former RCW 70.94.152, it need not consider whether the PSCAA board delegated its  
5 authority to issue orders of approval to its staff by way of resolution, or whether the claim that  
6 the order of approval is ultra vires is an impermissible facial challenge to former RCW 70.94.170  
7 and PSCAA Reg. I, § 3.01. The Board grants PSE’s Motion on Issue 1 and dismisses it.

8 **C. Issue 3(b)-(f) – Validity of City of Tacoma FEIS**

9 Issue 3 asks whether the 2015 City of Tacoma FEIS was arbitrary, unreasonable,  
10 incorrect, or otherwise not in compliance with SEPA, including but not limited to the following:

11 **3(b) —Adequacy of FEIS’ disclosure and analysis of non-GHG air and water  
emissions**

12 **3(c) —Adequacy of FEIS’ disclosure and analysis of project safety and  
accident risk, and deliberate withholding key documentation related to safety**

13 **3(d) —Failure of FEIS to evaluate of direct, indirect, and cumulative impacts  
of trains, vessels, and trucks traveling to and from Tacoma LNG**

14 **3(e) —Adequacy of FEIS’ disclosure of cumulative effects**

15 **3(f) —Failure of FEIS to follow mandatory SEPA procedures in FEIS  
process, including but not limited to inadequate notice.**

16 PSE moves for summary dismissal on Issues 3(b) – 3(f), joined by PSCAA. PSCAA also  
17 separately filed a reply in support of PSE’s Motion, in which PSCAA also requests dismissal of  
18 the same issues as a matter of law. Respondents PSE and PSCAA argue that challenges to the  
19 FEIS are barred as untimely under the SEPA provision requiring appeals to EIS be filed within  
20 21 days of issuance of a notice of action. RCW 43.21C.080(2)(a). Respondents further argue  
21 that challenges to the FEIS in Issues 3(b) – 3(f) are also barred by Appellants’ failure to exhaust

1 administrative remedies and by the prohibition on collateral attacks. *PSE's Motion*, pp. 15-19;  
2 *PSCAA's Reply*, pp. 33-40. ACT opposes summary dismissal on these issues, joined by the  
3 Tribe. *ACT's Opp./Cross Motion*, pp. 20-33.

4 SEPA establishes a "notice of action" procedure that, if used, imposes a 21-day time  
5 period for appealing a substantive governmental action and any accompanying procedural  
6 determination such as the City of Tacoma FEIS at issue. RCW 43.21C.080(2); RCW  
7 43.21C.075(8). The statute provides in relevant part that:

8 (1) Notice of any action taken by a governmental agency may be publicized by  
9 the acting governmental agency, the applicant for, or the proponent of such  
10 action, in substantially the form as set forth in rules adopted under RCW  
11 43.21C.110: . . . (a) [b]y publishing notice . . . in a legal newspaper . . .

12 (2)(a) Except as otherwise provided in RCW 43.21C.075(5)(a), . . . any action to  
13 set aside, enjoin, review, or otherwise challenge any such governmental action *or*  
14 *subsequent governmental action* for which notice [of action] is given as provided  
15 in subsection (1) of this section on grounds of noncompliance with the provisions  
16 of this chapter *shall be commenced within twenty-one days from the date of last*  
17 *newspaper publication of the notice pursuant to subsection (1) of this section, or*  
18 *be barred.*

19 (b) Any subsequent governmental action on the proposal for which notice has  
20 been given as provided in subsection (1) of this section shall not be set aside,  
21 enjoined, reviewed, or otherwise challenged on grounds of noncompliance with  
the provisions of RCW 43.21C.030(2)(a) through (h) unless there has been a  
substantial change in the proposal between the time of the first governmental  
action and the subsequent governmental action that is likely to have adverse  
environmental impacts beyond the range of impacts previously analyzed, or  
unless the action now being considered was identified in an earlier detailed  
statement or declaration of nonsignificance as being one which would require  
further environmental evaluation.

19 RCW 43.21C.080 (emphasis added). Here, the City of Tacoma published its FEIS for the  
20 Project on November 9, 2015. The City published a notice of action on November 19, 2015, on  
21 its action of administratively authorizing PSE to do demolition work at the Tacoma LNG site.



1 *Kisielius Decl., Ex. 7*. Under RCW 43.21C.080(2)(a), appeals of a SEPA determination like the  
2 City’s FEIS must be brought within 21 days of the last date of publication of the notice of action.  
3 The City’s notice of action itself stated that the 21-day deadline for any challenges was  
4 December 21, 2015. *Id.* Moreover, the notice of action procedure also precludes administrative  
5 or judicial challenges to the adequacy of SEPA review in any appeal of subsequent governmental  
6 action that rely on the same SEPA review. In other words, when notice of action has been  
7 issued, opponents must challenge the accompanying SEPA procedural determination (DNS,  
8 MDNS, or EIS) in relation to the action (here, the City authorizing demolition on Tacoma LNG  
9 site), and cannot wait to challenge the DNS, MDNS, or EIS in conjunction with an appeal of  
10 subsequent action on that proposal (here, PSCAA issuing order of approval). RCW  
11 43.21C.080(2)(a); R. Settle, *The Washington State Environmental Policy Act: A Legal and*  
12 *Policy Analysis*, § 20.05[3] (2019) (expiration of 21-day limitation period bars SEPA procedural  
13 challenges of any subsequent government action on same proposal unless two exceptions are  
14 met). Here, no party timely challenged the FEIS by the December 21, 2015, deadline. Thus, the  
15 challenges to the FEIS in issues 3(b) – 3(f) must be dismissed as time barred under RCW  
16 43.21C.080(2)(a), unless Appellants demonstrate exceptions to the notice of action’s preclusive  
17 effect in subsection 2(b) applies. *Wells v. Whatcom County Water Dist. No. 10*, 105 Wn. App.  
18 143, 152, 19 P.3d 453 (2001); *Walker v. Dep’t of Ecology*, PCHB No. 01-034 (June 5, 2001)  
19 (applying RCW 43.21C.080 to bar untimely SEPA challenge); *Millennium Bulk Terminals v.*  
20 *Cowlitz County*, SHB No. 17-017c, pp. 8, 19-21 (Apr. 20, 2018) (where notice of action had

1 been issued and no appeal filed, adequacy of previously unappealed FEIS could not be  
2 challenged in subsequent proceeding using earlier FEIS to deny a shoreline permits).

3 ACT nonetheless contends that PSCAA “reopened” SEPA review when it supplemented  
4 the FEIS with the SEIS on lifecycle greenhouse gas emissions, making the preclusive effect of  
5 the notice of action inapplicable. *ACT Opp./Cross Motion*, pp. 21-25. This is unsupported by  
6 the plain terms of RCW 43.21C.080(2)(b), case law, and the SEPA provisions on preparing  
7 supplemental EISs.

8 As stated, PSCAA determined that the FEIS did not account for “upstream” greenhouse  
9 gas (GHG) emissions associated with natural gas extraction and transmission and determined  
10 that a supplemental EIS using the “lifecycle” approach to characterizing GHG emissions was  
11 needed for its review of PSE’s NOC application. *Dold Decl., Ex. B*. PSCAA then followed its  
12 own regulation and SEPA regulations on supplementing EISs. When PSCAA is not the SEPA  
13 agency, as here, PSCAA regulation directs that PSCAA “shall not prepare or require preparation  
14 of a DNS or EIS in addition to that prepared by the lead agency, unless required under WAC  
15 197-11-600,” but in some cases, PSCAA “may conduct supplemental environmental review  
16 under WAC 197-11-600.” PSCAA Reg. I, § 2.04(b).

17 In turn, WAC 197-11-600 governs the use of existing environmental documents.  
18 Subsection (3) provides in part that an agency acting on the same proposal “shall use an  
19 environmental document unchanged except that for EISs, preparation of a supplemental EIS is  
20 required if there are “(i) [s]ubstantial changes . . . likely to have significant adverse  
21 environmental impacts . . . or (ii) [n]ew information indicating probable significant adverse

1 impact.” WAC 197-11-600(3). Subsection (4) then gives agency the discretion to use existing  
2 environmental documents by *one or more of the following*: adoption (where an agency may use  
3 all or part of an existing environmental document), incorporation by reference, addendum or  
4 preparation of a SEIS, if there are, among other things, substantial changes likely to have  
5 significant adverse environmental impacts or new information indicating a proposal’s probable  
6 significant adverse environmental impacts. WAC 197-11-600(4)(a)-(d). PSCAA was allowed  
7 under WAC 197-11-600(4) to use the FEIS and prepare an SEIS, thus refuting Appellants’ claim  
8 that PSCAA committed procedural error by not adopting or incorporating by reference the City’s  
9 FEIS.<sup>12</sup>

10 More importantly, Appellants provide no authority for the claim that by availing itself of  
11 the methods under WAC 197-11-600 of using an existing EIS and supplementing it, PSCAA  
12 somehow “reopened” SEPA review of the FEIS and bypassed the preclusive effect of the notice  
13 of action procedure in RCW 43.21C.080(2)(a). Indeed, the Court of Appeals in *Wells*  
14 differentiated between the standards for preparing an SEIS under WAC 197-11-600(3)(b)(ii) and  
15 the standard for applying the exception to RCW 43.21C.080(2)(b)’s preclusive effect.

16 In *Wells*, the water district had issued a SEPA notice of action to build a sewage  
17 interceptor for which an EIS had been prepared. No one appealed the EIS within the 21-day  
18 period triggered by the notice of action. *Wells*, 105 Wn. App. at 150. Later, the water district  
19 obtained a conditional use permit which opponents of the project challenged, arguing that a  
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21 <sup>12</sup> Furthermore, WAC 197-11-620(1) directs that the SEIS should not include analysis of actions, alternatives, or impacts that is in the previously prepared EIS.

1 supplemental EIS should have been prepared because of “new information” under WAC 197-11-  
2 600(4). The Court of Appeals held that opponents did not satisfy the “new information”  
3 standard, and that even if the standard was met, the claim that the EIS should have been  
4 supplemented was precluded by the notice of action unless the two exceptions to the notice of  
5 action’s preclusive effect under RCW 43.21C.080(2)(b) could be established. *Id.*, at 152-53.  
6 Since neither exception applied, the court rejected the claim that a supplemental EIS should have  
7 prepared. *Id.* In sum, the weight of authority does not support Appellants’ claim that PSCAA’s  
8 use of the City’s FEIS and preparation of the SEIS in reviewing PSE’s NOC application  
9 eliminates the preclusive effect of the notice of action. *See also, Settle, supra*, at § 20.05[3]; *May*  
10 *v. Robertson*, SHB No. 06-031 (Apr.16, 2007) (issuance of correction and addendum to  
11 environmental document did not justify reopening earlier environmental document unless  
12 challenger can establish exceptions to the preclusive effect of notice of action under RCW  
13 43.21C.080(2)(b)). The preclusive effect of the notice of action still applies unless Appellants  
14 can show that one of the two exceptions to the preclusive effect applies.

15 Two exceptions to the preclusive effect of the notice of action procedure are provided in  
16 RCW 43.21C.080(2)(b). Appellants only argue that the first of the two exceptions apply here: “a  
17 substantial change in the proposal between the time of the first governmental action and the  
18 subsequent governmental action that is likely to have adverse environmental impacts beyond the  
19 range of impacts previously analyzed.” RCW 43.21C.080(2)(b).

20 Specifically, Appellants contend that PSE made changes to the Tacoma LNG project  
21 after the City issued its FEIS that qualifies as a substantial change under RCW 43.21C.080(2)(b).

1 The change ACT identifies is eliminating bunkering on the Hylebos waterway (with ships  
2 refueling only on the Blair waterway) and the possible attendant increased risk of fire and  
3 explosion from concentrating refueling in one place. *ACT's Opp./Cross Motion*, pp. 25-27.  
4 ACT claims that neither the City nor PSCAA evaluated or further analyzed the possible risks  
5 associated with this change, and thus urges the Board “to review whether safety risks were  
6 adequately disclosed pursuant to SEPA” under the exception in RCW 43.21C.080(2)(b). *ACT's*  
7 *Opp./Cross Mot.*, p. 27.

8 PSCAA replies that ACT’s argument above falls under Issue 3(a), which ACT so  
9 acknowledges. *ACT Opp./Cross Mot.*, p. 25. Issue 3(a) is not the subject of dismissal in PSE’s  
10 instant motion. Issue 3(a) challenges the City’s FEIS on the basis that PSCAA’s reliance on the  
11 FEIS is erroneous when the project has changed substantially in scope and purpose since the  
12 FEIS was issued in November of 2015. *PSCAA Reply*, p. 40. Indeed, PSE states in its motion  
13 that “PSE does not seek to dismiss Appellants’ claim that PSE has made substantial changes in  
14 the proposal that are likely to have adverse environmental impacts beyond the range of impacts  
15 previously analyzed in the FEIS. PSE contests these assertions, but is not seeking to dismiss  
16 those claims in this motion.” *PSE’s Motion*, pp. 17, n.71.<sup>13</sup>

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19 <sup>13</sup> PSE’s position shifts and becomes unclear as briefing progressed. In a lengthy footnote in its reply, PSE  
20 characterizes Issue 3(a) as challenging PSCAA’s evaluation of the need for supplemental review under WAC 197-  
21 11-600 (requiring supplemental review when there are “substantial changes to a proposal so that the proposal is  
likely to have significant adverse environmental impacts”). *PSE’s Reply*, p. 43, n.161. PSE then states that the fact  
that Respondents did not seek to dismiss Issue 3(a) has no bearing on the Board’s resolution regarding the preclusive  
effect of the notice of action on Issues 3(b) – 3(f) since the standard for supplemental review under WAC 197-11-  
600 in Issue 3(a) is different than the standard for notices of action in RCW 43.21C.080(2)(b).

1           Regardless of how the parties characterize Issue 3(a), that issue is not before the Board in  
2 the instant motion. With respect to LNG project changes made after the FEIS, ACT is only  
3 arguing that the change of eliminating vessel fuel bunkering in the Hylebos waterway qualifies  
4 as an exception to the preclusive effect of the notice of action under RCW 43.21C.080(2)(b), i.e.,  
5 whether it's a substantial change that is likely to have adverse environmental impacts beyond the  
6 range of impacts previously analyzed in the FEIS. In the end, given PSE's statement in its  
7 motion that it was not seeking to dismiss such a claim, and ACT's acknowledgment that its  
8 argument falls under Issue 3(a), the Board does not consider it. To the extent Appellants claim  
9 that eliminating fuel bunkering at the Hylebos waterway or other changes to the project  
10 occurring after the issuance of the FEIS in November 2015 required supplemental environmental  
11 review under SEPA or otherwise violated SEPA, those arguments could be made under another  
12 issue.

13           Appellants also argue that that the City's notice of action was invalid, rendering its  
14 preclusive effect of RCW 43.21C.080(2)(b) inapplicable. *ACT's Opp./Cross Motion*, pp. 28-29.  
15 They contend that the City's notice of action was invalid because SEPA allows an agency to  
16 provide only one process for appealing a FEIS under RCW 43.21.075(3)(a), and the City had  
17 already provided such a process to the Shorelines Hearings Board when it issued its shoreline  
18 substantial development permit. *See* RCW 43.21.075(7) (shorelines hearings board has sole  
19 jurisdiction over both SEPA appeal and appeal under Shoreline Management Act). Given that  
20 under the City's municipal code and SEPA the shoreline permit already provided the sole basis  
21

1 for an EIS appeal, Appellants conclude that the City created an impermissible second, separate  
2 process for appealing the FEIS by issuing a notice of action on its demolition permits.

3 The Board rejects Appellants’ contention that the notice of action was invalid because it  
4 is premised on an incorrect understanding of when the shoreline permit was issued. At the time  
5 the City gave its notice of action on the demolition permits on November 19, 2015, no shoreline  
6 permit existed; and there was still no final shoreline permit at the expiration of the notice of  
7 action’s 21-day time period on December 21, 2015. *Kisielius Decl., Ex. E, p. 11; Puyallup Tribe*  
8 *of Indians v. City of Tacoma*, SHB No. 16-002, p. 5 (April 27, 2016) (after reconsideration, City  
9 issued final shoreline permit with amended conditions in December 2015). Thus, the City did  
10 not create a second impermissible FEIS appeal process at the time it issued its notice of action.

11 Additionally, assuming, without deciding, that it was invalid, RCW 43.21C.080(2)(a)  
12 bars Appellants’ invalidity challenge as untimely. The statute’s time limit for SEPA challenges  
13 applies to “*any action to set aside, enjoin, review, or otherwise challenge any such governmental*  
14 *action or subsequent governmental action for which notice [of action] is given . . . on grounds of*  
15 *noncompliance with the provisions of this chapter shall be commenced within twenty-one*  
16 *days[.]*” RCW 43.21C.080(2)(a) (emphasis added). Here, Appellants filed the instant action  
17 challenging, among other things, that the notice of action was invalid under SEPA. The plain  
18 terms of RCW 43.21C.080(2)(a) precludes this untimely action. *See* RCW 43.21C.080(8) (“[f]or  
19 purposes of RCW 43.21C.080, the words “action”, “decision”, and “determination” mean  
20 substantive agency action including any accompanying procedural determinations under [SEPA]  
21 (*except where the word “action” means “appeal” in RCW 43.21C.080(2)* (Emphasis added)).

1           Because the Board’s decision on these issues rests on the preclusive effect of the notice  
2 of action under RCW 43.21C.080(2)(a), the Board does not consider Respondents’ additional  
3 claims that collateral estoppel principles and Appellants’ alleged failure to exhaust  
4 administrative remedies bars their challenges to the FEIS in this proceeding.

5           The Board concludes that Issues 3(b)-(f) is dismissed; however, Appellants may raise the  
6 claim that changes PSE made to the LNG project after the issuance of the FEIS in November  
7 2015 required supplemental environmental review under SEPA or otherwise violated SEPA.

8           **D. Issue 4(f) —Violations of WAC 173-400-111, WAC 173-400-112, and WAC 173-**  
9           **400-113**

10          Issue 4(f) provides:

11          Whether PSCAA’s December 10, 2019 Order of Approval violates PSCAA  
12 Regulations, the Washington Clean Air Act (RCW Ch. 70.94), and/or the federal  
Clean Air Act, including but not limited to the following: ...

13          f. Whether PSCAA erroneously concluded that the emissions from Tacoma  
14 LNG will not violate WAC 173-400-111, WAC 173-400-112, and WAC 173-  
400-113 (i.e., not cause or contribute to a violation of any ambient air quality  
15 standard).

16          PSE moves to dismiss Issue 4(f), joined in by PSCAA. PSCAA also separately filed a  
17 reply in support of PSE’s Motion, in which PSCAA specifically requested that WAC 173-400-  
18 111 and WAC 173-400-112 be stricken from Issue 4(f). *PSCAA’s Reply*, pp. 43. The  
19 regulations referenced in this issue relate to the process for reviewing a notice of construction for  
20 a new source of air pollutant emissions. Appellant Tribe filed a response to PSE’s motion,  
21 joined in by ACT. In its response, the Tribe agreed with PSE that WAC 173-400-112 does not



1 apply. *Tribe's Response*, p. 6. Thus, Issue 4(f) only involves whether PSCAA erroneously  
2 concluded that Tacoma LNG emissions will not violate WAC 173-400-111 and WAC 173-400-  
3 113.

4 Entitled "Processing notice of construction applications for sources, stationary sources  
5 and portable sources," WAC 173-400-111 provides requirements for processing notice of  
6 construction applications, including: requirements for a complete application, coordination with  
7 ch. 173-401 WAC, criteria for approval, final determination, appeals, revisions, fees, and  
8 enforcement. WAC 173-400-111(1)-(10). Subsection (3) of the regulation states that order of  
9 approvals cannot be issued until the following criteria are met, and lists the requirements of  
10 WAC 173-400-113 as one of the criteria. WAC 173-400-111(3)(c). In turn, WAC 173-400-113  
11 establishes substantive requirements in reviewing new source applications. WAC 173-400-113  
12 (permitting authority reviewing new source application shall issue order of approval if the  
13 proposed project satisfies enumerated requirements). Those requirements include compliance  
14 with national and state emission standards for hazardous air pollutants, use of best available  
15 control technology, and compliance with ambient air quality standard. WAC 173-400-113.

16 PSE argues that PSCAA's order of approval on its notice of construction application  
17 cannot violate WAC 173-400-111 as a matter of law because the regulation establishes only  
18 procedural requirements that PSCAA must follow in processing its application for Tacoma LNG,  
19 and does not prohibit or limit any emissions from Tacoma LNG that could be violated. *PSE*  
20 *Motion*, pp. 24-25. The Tribe responds that WAC 173-400-111 is not merely "ministerial"  
21 because subsection (3) states that a notice of construction approval cannot be issued unless

1 substantive criteria are met, including requirements in ch. 173-460 WAC for control of new  
2 sources of toxic air pollutants which are in Issues 4(g)-(j) in this case. WAC 173-400-113(3)(h).

3 The Board concludes that WAC 173-400-111 does not limit or prohibit emissions except  
4 by reference in subsection (3) to other enumerated WACs that do contain emission requirements.  
5 Appellants have identified ch. 173-460 WAC as one such enumerated emission requirement,  
6 which they claim PSCAA erroneously concluded Tacoma LNG emissions will not violate.  
7 Appellants may raise such claim in the remaining issues. Neither PSE nor PSCAA addressed  
8 Issue 4(f)'s reference to WAC 173-400-113 in their briefing. Thus, PSE's motion to dismiss  
9 Issue 4(f) is granted only in part, with Issue 4(f) remaining for hearing solely as to compliance  
10 with WAC 173-400-113. Reference to other WACs in Issue 4(f) is stricken.

11 **E. Issue 4(k) —Enforceability of requirement that the sole source of natural gas**  
12 **supply used in all operations at the Tacoma LNG facility comes from British**  
13 **Columbia or Alberta, Canada**

14 Issue 4(k) asks whether PSCAA's December 10, 2019, Order of Approval violates  
15 PSCAA Regulations, the Washington Clean Air Act (RCW Ch. 70.94), and/or the federal Clean  
16 Air Act, including but not limited to the following: ... (k) the Order of Approval's requirement  
17 that "the sole source of natural gas supply used in all operations at the Tacoma LNG facility  
18 comes from British Columbia or Alberta, Canada" is enforceable. The requirement is contained  
19 in condition 41 of PSCAA's Order of Approval. PSE moves to dismiss this issue on two bases:  
20 (1) lack of Board jurisdiction over hypothetical future enforcement of a condition of approval "to  
21 the extent" that Appellants in this issue is challenging PSCAA's likelihood or manner of future

1 enforcement, and (2) Appellants' lack standing to raise the issue. PSCAA joins in PSE's motion,  
2 and also provided its separate arguments in its reply supporting PSE's motion. The Tribe and  
3 ACT oppose dismissal of Issue 4(k).

4 Condition 41 of the order of approval states that pursuant to provisions in SEPA statute  
5 and regulations, and PSCAA agency regulation relating to SEPA substantive authority to  
6 condition or deny a proposal, "[t]he owner and/or operator shall ensure" that Tacoma LNG's sole  
7 source of natural gas supply comes from British Columbia or Alberta, Canada." *Kisielius Decl.*,  
8 *Ex. 9*. It further states that compliance with the condition "shall be verified by the owner and/or  
9 operator maintaining the following records," and specifies in great detail the required  
10 records/reports: monthly records on natural gas purchasing, delivery, receipt, and flow; reporting  
11 requirements in case gas flow is not north to south (from Canada to Tacoma LNG); and  
12 semiannual reporting requirements. *Id.*

13 Respondents argue that Issue 4(k) is essentially a claim that condition 41 may be violated  
14 and therefore concerns PSCAA's future enforcement of the condition, which the Board lacks  
15 jurisdiction to consider. *PSE's Motion*, pp. 9-11; *PSCAA's Reply*, pp. 15-21. Respondents cite  
16 numerous Board cases generally stating that the Board lacks jurisdiction to consider future  
17 violations and enforcement of those violations. Alternatively, Respondents argue that Appellants  
18 lack standing to raise Issue 4(k) because the alleged injury is a threatened, future one and  
19 therefore fails to satisfy the injury in fact element of standing. *Green v. Dep't of Ecology*, PCHB  
20 No. 07-012 (Aug. 22, 2007); *Magnolia Neighborhood Planning Council v. City of Seattle*, 155  
21 Wn. App. 305, 312, 230 P.3d 190, *review denied*, 170 Wn.2d 1003 (2010).

1           The Board rejects the argument that Appellants lack standing to raise Issue 4(k) for  
2 failure to allege a concrete, immediate, and specific injury required to satisfy the injury in fact  
3 element of standing. This Board has repeatedly rejected claims that the Tribe lacked standing to  
4 challenge other permit approvals for Tacoma LNG. *The Puyallup Tribe of Indians v. Dep't of*  
5 *Ecology*, PCHB No. 16- 120C, pp. 16-17 (Jan. 16, 2018). Moreover, the Board agrees with  
6 Appellants that condition 41 is intertwined with Issue 2's challenge to the SEIS's analysis of  
7 greenhouse gas emissions that relies on mitigation such as condition 41 (discussed below).  
8 Respondents do not contest, and the Board does not find, that Appellants lack standing to  
9 challenge the SEIS.

10           As to whether Issue 4(k) is an improper order of approval enforcement matter, Appellants  
11 respond that the Board has jurisdiction over Issue 4(k) because it is essentially a SEPA issue in  
12 that it asks whether PSCAA can even rely on the condition as a means of ensuring SEPA  
13 compliance.<sup>14</sup> Respondents object to what they allege as the Tribe's recasting of Issue 4(k) from  
14 a future enforceability issue over which the Board lacks jurisdiction to a SEPA issue of whether  
15 PSCAA properly relied on condition 41 as mitigation to ensure compliance with SEPA and the  
16 Clean Air Act. However, both PSE and PSCAA agree that Appellants can indeed challenge  
17  
18

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19 <sup>14</sup> Appellants explain that condition 41 is central to PSCAA's conclusion in its SEIS that operating the Tacoma LNG  
20 facility will result in overall decrease in greenhouse gas emissions in the Puget Sound region compared to the no  
21 action alternative because one of the key assumptions underlying that conclusion is that gas sourced from BC and  
Alberta has a very low rate of methane loss. SEIS, pp. 4-11 (in Ex. 1 to Bridgman Decl. in support of Tribe's Opp'n  
to PSE's Second Dispositive Mot.). The Tribe provides evidence that the natural gas pipeline feeding into Tacoma  
LNG has multiple sources and therefore cannot be traced to ensure that only BC and Alberta natural gas arrives at  
Tacoma LNG. *Sahu Decl.*, ¶¶ 7-8.

1 condition 41 as part of their challenge to PSCAA’s exercise of SEPA substantive authority to  
2 condition a proposal in Issue 2(d).

3 Appellants also argue that Issue 4(k) presents a fact dispute as to whether condition 41  
4 can ensure that only British Columbia and Alberta natural gas arrives at Tacoma LNG. *Sahu*  
5 *Decl.*, ¶¶ 7-8. The Board agrees that material questions of fact remain in Issue 4(k) since  
6 PSCAA contests Dr. Sahu’s declaration, and contends that monthly records can prove the  
7 direction of natural gas flow to ensure that condition 41 is satisfied. *PSCAA Reply*, pp. 19-20.

8 Given that all parties agree that condition 41 is intertwined with the challenge to  
9 PSCAA’s exercise of SEPA substantive authority to condition a proposal in Issue 2(d), and the  
10 Board’s conclusion that genuine issues of material fact remain as to condition 41 of the Permit,  
11 the Board denies PSE’s motion to dismiss Issue 4(k).

12 **F. Issue 4(l) —Whether order of approval is contrary to principles of**  
13 **environmental justice, including Executive Order 12898 as well as PSCAA’s**  
14 **mandate concerning avoiding environmental injustices.**

15 PSE moves to dismiss Issue 4(l), joined in by PSCAA, on the basis that the Board lacks  
16 jurisdiction to consider it. PSCAA also separately argues in its reply that the Board lacks  
17 authority to consider this issue under RCW 43.21B.110. Executive Order 12898 is entitled  
18 “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income  
19 Populations,” and directs federal agencies to, among other things, identify and address  
20 disproportionately high and adverse human health or environmental effects of their actions on  
21

1 minority and low income populations, and develop a strategy for implementing environmental  
2 justice.<sup>15</sup> 59 Fed. Reg. 7629, § 6-609 (Feb. 11, 1994); *Dold Decl., Ex. F.*

3 The Tribe identifies a PSCAA report on “Highly Impacted Communities” within its  
4 jurisdiction as an example of PSCAA’s mandate to avoid environmental injustices. *Tribe’s*  
5 *Response*, p. 37, n.30.

6 The Board is a creature of statute and has only those powers expressly granted to it or  
7 necessarily implied therein. RCW 43.21B.010; *Skagit Surveyors and Engineers LLC v. Friends*  
8 *of Skagit County*, 135 Wn.2d 542, 558, 958 P.2d 962 (1998); *Kailin v. Clallam County*, 152 Wn.  
9 App. 974, 979, 220 P.23d 222 (2009). RCW 43.21B.110 defines the Board’s subject matter  
10 jurisdiction, conferring authority on the Board to hear and decide appeals from certain  
11 enumerated “decisions” of state agencies and air pollution control authorities related to “the  
12 issuance, modification, or termination of any permit, certificate, or license by . . . [any air  
13 authority].” RCW 43.21B.110(1)(d). The Board also has jurisdiction to review “[a]ny other  
14 decision by the department [of Ecology] or air authority which pursuant to law must be decided  
15 as an adjudicative proceeding under ch. 34.05 RCW [APA]” RCW 43.21B.110(1)(i). An  
16 adjudicative proceeding under the APA results in an order that is limited to resolving the rights  
17 and duties of specific persons. *Am. Waterways Operators v. Dep’t of Ecology*, 7 Wn. App. 2d  
18 808, 818-19, 435 P.3d 856 (2019). Accordingly, the Board’s jurisdiction to hear appeals of

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20 <sup>15</sup> Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color,  
21 national origin, or income, with respect to the development, implementation, and enforcement of environmental  
laws, regulations, and policies. United States Environmental Protection Agency, environmental justice webpage,  
<https://www.epa.gov/environmentaljustice>.

1 decisions from PSCAA is limited to permits, certificates, licenses, or an order resolving  
2 addressing the rights and duties of specific persons.

3 Resolving whether PSCAA's order of approval is contrary to environmental justice  
4 principles, including Executive Order 12898 and PSCAA's mandates on environmental  
5 injustices, would require the Board to adjudicate and/or enforce a federal executive order and  
6 PSCAA plans and policies, matters which the Board has ruled that it lacks subject matter  
7 jurisdiction.<sup>16</sup> Such a conclusion compels the Board to dismiss Issue 4(1). *Inland Foundry Co.*  
8 *Inc. v. Spokane County Air Pollution Control Authority*, 98 Wn. App. 121, 123-24, 989 P.2d 102  
9 (1999) (without subject matter jurisdiction, administrative tribunal can only enter dismissal  
10 order). However, the Board's dismissal of Issue 4(1) is not a comment on environmental justice  
11 principles implemented or being implemented.

12 Because the Board concludes that it lacks jurisdiction to consider compliance with federal  
13 executive orders, broad principles of environmental justice, and PSCAA's mandate in the form  
14 of PSCAA reports and strategic plans, the Board does not decide the parties' dispute over  
15

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16 <sup>16</sup> *West v. Dep't of Ecology*, PCHB No. 09-077, p. 11 (Oct. 29, 2009) (Board had no authority under RCW  
17 43.21B.110 to consider claim that Ecology's issuance of NPDES permit violated National Environmental Policy  
18 Act, Open Public Meetings Act, and harbor improvement plan); *Kavanagh v. Spokane County Air Pollution Control*  
19 *Agency*, PCHB No. 89-127, p. 4 (Dec. 7, 1989) (Board lacked jurisdiction over claim that air permit violated county  
20 solid waste plan); *Devine v. Dep't of Ecology*, PCHB Nos. 09-075 and 09-082, p. 11. (Apr. 9, 2010) (Board lacked  
21 jurisdiction to consider water right transfer application's compliance with federal law; Board does not have  
jurisdiction to enforce federal law provisions); *Harrison v. Dep't of Ecology*, PCHB No. 04-074 (Nov. 10, 2004)  
(Board lacked jurisdiction over claim that water right transfer did not comply with Growth Management Act where  
water right transfer statute did not make compliance with Act a requirement); *West v. Weyerhaeuser Co.*, PCHB No.  
08-076, pp. 2-3 (Jan. 14, 2009) (Board had no jurisdiction over Ecology stormwater coverage determination under  
RCW 43.21B.110, which limits jurisdiction to orders issued pursuant to specific statutory provisions; referencing  
federal statutes does not confer jurisdiction absent showing that statutes provide right to adjudicate matter before  
Board).

1 whether Executive Order 12898 creates a right of action for judicial review or any other dispute  
2 under Issue 4(l) that does not concern the Board’s jurisdiction under RCW 43.21B.110.

3 **G. Issue 4(m) — Violation of PSCAA’s obligations under Title VI of the Civil**  
4 **Rights Act (42 U.S.C. § 2000d et seq.)**

5 Issue 4(m) asks whether PSCAA’s issuance of the order of approval violates Title VI of  
6 the Civil Rights Act, 42 U.S.C. § 2000d et seq. PSE, joined by PSCAA, contends the Board lacks  
7 jurisdiction to review the issue. The analysis and authorities discussed above on Issue 4(l) also  
8 compels the conclusion that the Board lacks jurisdiction to review compliance with federal civil  
9 rights law. Appellants have provided no authority to the contrary. Issue 4(m) is also dismissed.

10 **H. Issue 4(o) —Failure to include the requirements of NSPS Subpart OOOOa (40**  
11 **C.F.R. § 60.5430a et seq.) relating to the handling of acid gas from the facility.**  
12 **Issue 4(p) —Failure to include a requirement that Tacoma LNG monitor and**  
13 **control fugitive GHG and VOC emissions in accordance with NSPS Subpart**  
14 **OOOOa (40 C.F.R. § 60.5430a et seq.)**

15 Finally, Issues 4(o) and 4(p) concern the order of approval’s compliance with federal  
16 regulations establishing standards for controlling acid gas, GHG, and volatile organic  
17 compounds (VOC) from affected facilities in the crude oil and natural gas production source  
18 category. 40 C.F.R § 60.5360a. Appellants contend in Issue 4(o) that PSCAA’s order of  
19 approval incorrectly fails to include the requirements of new source performance standards  
20 (NSPS) Subpart OOOOa (40 C.F.R. § 60.5430a et seq.) relating to the handling of acid gas from  
21 the facility. In Issue 4(p) the Appellants argue that the order of approval incorrectly fails to



1 include a requirement that Tacoma LNG monitor and control fugitive greenhouse gas and  
2 volatile organic compounds (VOC) emissions in accordance with NSPS Subpart OOOOa (40  
3 C.F.R. § 60.5430a et seq.).<sup>17</sup>

4 PSE asserts that 40 C.F.R. Part 60, Subpart OOOOa (“Subpart OOOOa”), which  
5 establishes emission standards and compliance schedules for control of GHG, cannot apply to  
6 Tacoma LNG because it only applies to facilities in the “crude oil and natural gas source  
7 category” as defined in 40 C.F.R. § 60.5430a. PSE claims that Tacoma LNG is not a facility in  
8 the “crude oil and natural gas source category” (and therefore not subject to Subpart OOOOa)  
9 because the term is defined to include “natural gas production, processing, transmission and  
10 storage, which include the well and *extends to, but do not include, the local distribution company*  
11 *custody transfer station.*” Former 40 C.F.R. § 60.5430a (2019) (emphasis added).

12 Under this definition, PSE asserts that Subpart OOOOa does not apply to Tacoma LNG  
13 because it is downstream of the LDC custody transfer station, and the regulation does not apply  
14 to any equipment downstream of the LDC custody transfer station. *PSE Motion, p. 26-27.*

15 PSCAA, in its Reply, also argues that the Environmental Protection Agency (EPA) made clear in  
16 published presentation (with graphics) that Subpart OOOOa does not apply downstream of the  
17 “City Gate”, which PSCAA states is defined as the “*Local distribution company (LDC) custody*  
18 *transfer station.*” 40 C.F.R. §60.5430a. PSCAA explains that according to the EPA graphic,  
19 Tacoma LNG is a “Large Volume Customer,” which is depicted in the graphic as downstream of

---

20  
21 <sup>17</sup> These EPA regulations at issue were amended in September 2020, after briefing on the motions were completed.  
*See Oil and Natural Gas Sector: Emission Standards for New, Reconstructed, and Modified Sources*, 85 Fed. Reg.  
57018 (Sept. 14, 2020)].

1 the “City Gate” or LDC custody transfer station, making Subpart OOOOa inapplicable to  
2 Tacoma LNG. *PSCAA Reply*, pp. 45-46.

3 In response, the Tribe states that PSE’s interpretation is counter to EPA’s statements in  
4 proposed rulemaking on Subpart OOOOa that it is intended to regulate the natural gas sector  
5 “from the well to the customer.” *Tribe’s Response*, p. 9; *Fuller Decl.*, Ex. F, p. 50247; 84 Fed.  
6 Reg. 50247 (Sept. 24, 2019). In addition, the Tribe argues that such a reading would create an  
7 unlimited exemption when Subpart OOOOa already provides definitions of facilities and specific  
8 circumstances where those facilities may be exempt. *Tribe’s Response*, p. 9. The Tribe also  
9 claims other LNG facilities similar to the Tacoma LNG facility have been subject to Subpart  
10 OOOOa.<sup>18</sup>

11 Based on the evidence presented by the parties, the Board concludes there are material  
12 issues of fact regarding whether Tacoma LNG is downstream of the LDC custody transfer  
13 station, as defined under 40 CFR § 60.5430a, and whether it is part of the natural gas distribution  
14 segment. PSE’s motion to dismiss issue 4 (o) and (p) is denied.

15 In accordance with the analysis above, the Board issues the following Order:

#### 16 IV. ORDER

17 Puget Sound Energy’s Motion to Dismiss and for Partial Summary Judgment is  
18 **GRANTED in part and DENIED in part.** Issues 1, 3(b)-(f), 4(f) (as to WAC 173-400-111 and  
19

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20 <sup>18</sup> The Tribe claims the Texas, Freeport LNG facility is similar and regulated by Subpart OOOOa. The Freeport  
21 LNG facility, they claim, also includes an amine sweetening system; gas dehydration unit; natural gas liquids (NGL)  
extraction unit; liquefaction unit, storage vessels, and flare system. *Tribe’s Response*, p. 11; *Fuller Decl.*, Ex. C,  
Sections 2.1, 2.2 and 3.4.

1 -WAC 173-400-112), 4(l) and 4(m) are **DISMISSED**. Issues 4(n), 4(q), 4(r), 4(s), 4(t) and 5 are  
2 **DISMISSED** by agreement of the parties. Issues 4(b), 4(f) (solely as to WAC 173-400-113),  
3 4(k), 4(o) and 4(p) remain for hearing.

4 SO ORDERED this 26th day of March, 2021.

6 **POLLUTION CONTROL HEARINGS BOARD**

7 

8 NEIL L. WISE, Board Chair

9 

10 CAROLINA SUN-WIDROW, Member

11 

12 MICHELLE GONZALEZ, Member

13 

14 HEATHER C. FRANCKS, Presiding  
15 Administrative Appeals Judge

1 **POLLUTION CONTROL HEARINGS BOARD**  
2 **STATE OF WASHINGTON**

3 ADVOCATES FOR A CLEANER  
4 TACOMA, SIERRA CLUB, WASHINGTON  
5 ENVIRONMENTAL COUNCIL,  
6 WASHINGTON PHYSICIANS FOR  
7 SOCIAL RESPONSIBILITY,  
8 STAND.EARTH, and THE PUYALLUP  
9 TRIBE OF INDIANS,

Appellants,

v.

10 PUGET SOUND CLEAN AIR AGENCY and  
11 PUGET SOUND ENERGY,

Respondents.

PCHB No. 19-087c

FINDINGS OF FACT, CONCLUSIONS OF  
LAW AND ORDER ON STATE  
ENVIRONMENTAL POLICY ACT  
ISSUES 2a, 2c, 2d, 2e, 2f, and 9

12 **I. INTRODUCTION**

13 This case concerns challenges to a Permit and accompanying supplemental  
14 environmental impact statement (SEIS) issued by the Puget Sound Clean Air Agency (PSCAA)  
15 authorizing greenhouse gas and other emissions from a specific project. Against the backdrop of  
16 the pressing effects of climate change, the Pollution Control Hearings Board's (Board) resolution  
17 of the case is a narrow one: whether the Permit and SEIS complies with the State Environmental  
18 Policy Act (SEPA), ch. 43.21C RCW, and applicable federal and state Clean Air Act statutes and  
19 regulations. *See* 42 U.S.C. §§ 7401-7671q; ch. 70.94 RCW. Concluding that they do, the Board  
20 affirms the Permit and SEIS, but remands to add a condition to the Permit.  
21

1 On December 19, 2019, the Puyallup Tribe of Indians’ (Tribe) and Advocates for a  
2 Cleaner Tacoma, Sierra Club, Washington Environmental Council, Washington Physicians for  
3 Social Responsibility, and Stand.Earth (collectively, ACT) each separately appealed the Order of  
4 Approval for Notice of Construction (NOC) No. 11386 (Permit) issued to Puget Sound Energy  
5 (PSE) by PSCAA to construct the Tacoma Liquefied Natural Gas facility (TLNG) and related  
6 equipment. The Appeals challenged both the Permit and SEPA supplemental environmental  
7 impact statement supporting the Permit. On January 24, 2020, the Presiding Officer consolidated  
8 the Appeals. *Consolidation and Amended Prehearing Order*, PCHB No. 19-087c.

9 The administrative record in this case reflects the protracted discovery and voluminous  
10 motions filed. The ten-day hearing on the consolidated appeals took place before the Board via  
11 Zoom videoconference in April 2021. The Board was comprised of Board Chair Neil L. Wise,  
12 and Members Carolina Sun-Widrow and Michelle Gonzalez. Administrative Appeals Judge  
13 Heather C. Francks, presided for the Board.

14 At the hearing, the parties presented expert and fact witnesses for direct examination,  
15 cross-examination, and questioning by the Board members. The Board also viewed portions of  
16 certain video deposition testimony as part of the evidence in the case, and PSE counter-  
17 designated portions of deposition testimony. Approximately 1,500 exhibits were filed, of which  
18 around 350 exhibits were ultimately admitted.

19 At the hearing, attorneys Jan E. Hasselman and Jaimini Parekh appeared on behalf of  
20 ACT. Attorneys Geoff Bridgman, Nicholas G. Thomas, and Andrew S. Fuller appeared for the  
21 Tribe. Attorneys Tadas A. Kisielius, Joshua B. Frank, Allison Watkins Mallick, and Sterling

1 Marchand appeared for PSE. Attorneys Jennifer A. Dold and Jennifer Elias appeared on behalf  
2 of PSCAA.

3 The parties agreed to present evidence on the SEPA legal issues during the first five  
4 hearing days and to present the Permit legal issues during the remaining five hearing days. As  
5 the Board's Findings of Fact, Conclusions of Law, and Order on the consolidated appeals total  
6 180 pages, they are divided into two documents for ease of reading. The instant findings,  
7 conclusions, and order addresses the legal issues relating to whether PSCAA's SEIS adhered to  
8 SEPA requirements. A separate order issued the same day addresses the Permit issues. *See*  
9 *Findings of Fact, Conclusions of Law, and Order on NOC Issues 4, 4a, 4b, 4c, 4d, 4e, 4f, 4g, 4h,*  
10 *4i, 4j, 4k, 4o, 4p, 4u, 6, and 8.*

11 Together, they comprise the Board's sole decision in this case, which affirms the Permit  
12 and SEIS, but remands to add a condition in the Permit to install a continuous emission  
13 monitoring system to monitor SO<sub>2</sub> and VOC emissions from TLNG's enclosed ground flare.

## 14 **II. PROCEDURAL HISTORY**

15 On January 2, 2020, ACT filed a Motion for Stay seeking a stay of the effectiveness of  
16 the Permit. On January 10, 2020, the Tribe filed a Motion for Stay of the Permit, joining ACT's  
17 Motion for Stay and providing additional reasons for a stay. PSE opposed both Motions.  
18 PSCAA took no position on whether a stay should be issued in the consolidated appeal but filed  
19 a response on the issue of whether ACT or the Tribe has established a required element for  
20 obtaining a stay from the Board: the likelihood of success on the merits of the appeal. On March  
21 17, 2020, the Board denied the Appellants' Motions for Stay.

1 On May 6, 2020, PSE filed a Motion to Dismiss and for Partial Summary Judgment  
2 (PSE's Motion). PSCAA joined PSE's Motion. The Tribe opposed PSE's Motion. ACT joined  
3 the Tribe's opposition and filed a cross motion for Partial Summary Judgment on Issue 1. On  
4 March 26, 2021, the Board granted in part and denied in part PSE's Motion and denied ACT's  
5 cross motion. Issues 1, 3b-f, 4f (as to WAC 173-400-111 -WAC 173-400-112), 4l and 4m were  
6 dismissed. Issues 4n, 4q, 4r, 4s, 4t and 5 were dismissed by agreement of the parties.

7 On August 3, 2020, the Tribe moved to bifurcate the SEPA issues from the non-SEPA  
8 issues on the grounds that resolution of the SEPA issues may eliminate the need for a hearing on  
9 the non-SEPA issues. The Presiding Officer denied the motion on the grounds that bifurcation  
10 may result in piecemeal litigation and continued the case until March 2021. On January 6, 2021,  
11 the Tribe renewed its motion to bifurcate the SEPA issues from the Permit issues and continue  
12 the hearing on the Permit issues to allow time to complete discovery and for a stay of the Order  
13 of Approval. The Presiding Officer denied the motion on the grounds that bifurcation may result  
14 in piecemeal litigation. In the course of the briefing, a two-week block of hearing time became  
15 available in the Board's calendar and all parties agreed to continue the case from March 2021, to  
16 April 2021.

17 On November 30, 2020, PSE filed a Second Dispositive Motion. PSE moved to dismiss  
18 Issues 2a-2d and 2f, 3a, 4o, 4p, 4v and 4w. PSCAA joined the motion. ACT and the Tribe  
19 opposed the motion. On March 26, 2021, the Board granted in part and denied in part PSE's  
20 Second Dispositive Motion. Summary Judgment was granted as to Issues 2b and 3a and denied  
21

1 as to Issues 2a, 2c, 2d, 2f and 4o and p. Issues 4v and 4w were dismissed by agreement of the  
2 parties.

3 The parties filed numerous Motions in Limine prior to hearing including motions related  
4 to the order of witness testimony and the use of videotaped deposition testimony of corporate  
5 representatives and former employees.

6 The hearing took place April 12-16, 20-23, and 27, 2021, by Zoom videoconference. On  
7 May 28, 2021, the parties filed Closing Briefs. On June 30, 2021, ACT submitted *Washington*  
8 *State Dairy Federation v. Dept' of Ecology*, 18 Wn. App. 2d 259, 490 P.3d 290 (2021) as  
9 supplemental authority on consideration of climate change.

10 The Board received sworn testimony of witnesses, admitted exhibits, and heard argument  
11 on behalf of the parties. Based upon the evidence presented, the Board makes the following  
12 Findings of Fact and Conclusions of Law.

### 13 III. LEGAL ISSUES

14 The following legal issues proceeded to hearing, grouped into SEPA issues and Permit  
15 issues:<sup>1</sup>

#### 16 SEPA Issues

- 17 2. Whether the supplemental environmental impact statement ("SEIS") assessing  
18 lifecycle greenhouse gas emissions that supported the Order of Approval was  
19 arbitrary, unreasonable, incorrect, or otherwise not in compliance with the State  
20 Environmental Policy Act ("SEPA"), including but not limited to the following:

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21 <sup>1</sup> Issue 2b was dismissed on summary judgment. See *Order on PSE's Second Dispositive Motion*, PCHB No. 19-087c (March 26, 2021).



- 1 a. The SEIS relies on an incorrect and unsupported claim of 1-for-1 fuel  
2 displacement, and an assumption that fuel use will not change over 40 years, that  
3 masks the greenhouse gas ("GHG") impacts of the Order of Approval.
- 4 c. The SEIS fails to acknowledge that maintenance of high-GHG-emissions status  
5 quo for the lifetime of the project is a "significant" impact under SEPA.
- 6 d. The SEIS relies on displacement and/or mitigation that is unavailable under the  
7 project as currently configured, and otherwise fails to assess the current  
8 configuration of the project.
- 9 e. The SEIS fails to properly address the facility's emissions of N<sub>2</sub>O, a potent  
10 greenhouse gas.
- 11 f. The SEIS relies on scenarios that have not undergone SEPA review.
- 12 9. Whether legally adequate environmental review under SEPA requires either denial or  
13 further mitigation of the Project or is a reviewable cause of action under SEPA.

14 Permit Issues

- 15 4. Whether the Puget Sound Clean Air Agency's ("PSCAA") December 10, 2019 Order  
16 of Approval ("Order of Approval") violates PSCAA Regulations, the Washington  
17 Clean Air Act (RCW Ch. 70.94), and/or the federal Clean Air Act, including but not  
18 limited to the following:
- 19 a. Whether PSCAA's conclusions concerning Tacoma LNG's emissions and the  
20 impacts from those emissions are erroneous when PSCAA relied on modeling  
21 using non-representative meteorological data.
- b. Whether PSCAA's Order of Approval is premature when the design of Tacoma  
LNG was not yet complete and continued to change at the time PSCAA  
determined PSE's NOC Application was complete and when the Order of  
Approval was issued, and it was likely that the facility's design and its operations  
would need to undergo revisions, which would likely result in changes to facility  
details having bearing on the facility's emissions.
- c. Whether PSCAA's Order of Approval is invalid, when PSCAA's decision to grant  
the Order of Approval was made in reliance on performance specification and  
process details that were not provided to PSCAA, including those from Chicago  
Bridge & Iron and other unidentified "vendors."

- 1 d. Whether PSCAA erred in concluding that Tacoma LNG is not a Major Source of  
2 one or more pollutants, including volatile organic compounds (VOCs)?
- 3 e. Whether PSCAA erroneously concluded that Tacoma LNG's emissions are below  
4 the Clean Air Act's regulatory thresholds, emission and air quality standards.
- 5 f. Whether PSCAA erroneously concluded that the emissions from Tacoma LNG  
6 will not violate WAC 173-400-113 (i.e., not cause or contribute to a violation of  
7 any ambient air quality standard).
- 8 g. Whether PSCAA erroneously concluded that Tacoma LNG's emissions will not  
9 exceed applicable acceptable source impact levels (ASIL).
- 10 h. Whether PSCAA erroneously concluded that Tacoma LNG's emissions will not  
11 exceed applicable small quantity emission rate (SQER) limits.
- 12 i. Whether PSCAA's Order of Approval is invalid, where a first-tier ambient  
13 concentration screening analysis was performed before all emissions of HAPs and  
14 TAPs from the flare were estimated.
- 15 j. Whether PSCAA violated WAC 173-460-060 by failing to require a  
16 demonstration that Tacoma LNG will employ tBACT for all TAPs for which the  
17 increase in emissions will exceed de minimis emission values found in WAC 173-  
18 460-150.
- 19 k. Whether the Order of Approval's requirement that "the sole source of natural gas  
20 supply used in all operations at the Tacoma LNG facility comes from British  
21 Columbia or Alberta, Canada" is enforceable.
- o. Whether PSCAA's Order of Approval incorrectly fails to include the requirements  
of NSPS Subpart OOOOa (40 C.F.R. § 60.5430a et seq.) relating to the handling  
of acid gas from the facility.
- p. Whether PSCAA's Order of Approval incorrectly fails to include a requirement  
that Tacoma LNG monitor and control fugitive GHG and VOC emissions in  
accordance with NSPS Subpart OOOOa (40 C.F.R. § 60.5430a et seq.).
- u. Did PSCAA violate the Clean Air Act by allowing a known source of significant  
amounts of pollution to achieve BACT through "good combustion practices",  
when PSCAA fails to define that standard and when there are known and  
reasonably available methods which, if implemented, would better ensure the  
facility is not violating pollution standards?

1 6. Whether PSCAA’s permitting decision is invalid in light of its failure to engage in  
2 formal government-to-government consultation with the Puyallup Tribe of Indians.

3 8. Does the Board have jurisdiction over issues raised in Advocates for a Cleaner  
4 Tacoma et al.’s appeal and the Puyallup Tribe’s appeal that are outside of the Board’s  
5 jurisdiction in this permit appeal, including: facial challenge to Agency regulations  
6 and/or provisions of the Washington Clean Air Act, Ch. 70.94 et seq. (“Act”); alleged  
7 constitutional, Civil Rights Act, or treaty-based claims; challenges to an alleged  
8 failure to pursue enforcement; challenge to elements of the City of Tacoma’s 2015  
9 Final Environmental Impact Statement (“2015 FEIS”) not properly before this Board;  
10 and/or issues outside of the Board’s jurisdiction established in Ch. 43.21B et seq.?

7 **IV. GENERAL FINDINGS OF FACT**

8 1.

9 The TLNG is generally located north of East 11th Street, east of Alexander Avenue,  
10 south of Commencement Bay, and on the west shoreline of the Hylebos Waterway, adjacent to  
11 the Puyallup Indian Reservation. The site is in an area zoned as Port Maritime Industrial. The  
12 site is composed of four separate parcels owned by the Port of Tacoma. *Ex. RA-51, p. 6.*<sup>2</sup>

13 2.

14 The purpose of the project is to receive natural gas from PSE’s distribution system, chill  
15 natural gas to produce approximately 250,000 to 500,000 gallons of liquefied natural gas (LNG)  
16 daily, and to store up to 8 million gallons of LNG on site. *Ex. RA-51, p. 18.* PSE hired Chicago  
17 Bridge & Iron Company (CB&I) to design and construct TLNG. *Stobart Testimony at 969-972.*<sup>3</sup>

21 <sup>2</sup> Page numbers in exhibit citations refer to the pdf page number.  
<sup>3</sup> Witness hearing testimony citations refer to the transcript pages.

1 3.

2 LNG from the facility would be distributed for use as marine transportation fuel by  
3 Totem Ocean Trailer Express (TOTE) at its Port of Tacoma Facility, along with other potential  
4 future regional LNG marine fuel customers. During times of peak gas demand, generally in the  
5 winter, 66,000 dekatherms per day of LNG would be re-gasified and re-injected into PSE's  
6 distribution system. This capability to vaporize LNG back into its gaseous state for injection into  
7 the PSE natural gas distribution system is referred to as "peak shaving." *Ex. RA-51, p. 5.* PSE is  
8 also proposing to load LNG onto trucks and barges for use by other regional markets seeking an  
9 alternative fuel source. *Ex. RA-51, p. 18.*

10 4.

11 LNG is a temporarily liquefied, naturally gaseous fossil fuel, mostly composed of  
12 methane. *Ex. ACT-107, p. 3 (Pratt Pre-filed Testimony).* As of 2019, 0.14 percent of ships were  
13 powered by LNG, but it is growing in popularity. *Id.* A significant driver of LNG adoption is  
14 the establishment of low pollution zones that require low emissions of sulfur and nitrogen  
15 oxides. *Id.* LNG contains only trace amounts of sulfur and its combustion processes produce  
16 lower nitrogen oxides than production of marine fuels. *Id.*

17 5.

18 The TLNG project requires several permits from various agencies and jurisdictions. *See*  
19 *Ex. RA-38, pp. 9-11.* Among them is a Shoreline Substantial Development Permit (SSDP). PSE  
20 formally applied to the City of Tacoma (City) for an SSDP for TLNG. In 2014, the City, acting  
21 as lead agency under SEPA, issued a SEPA Determination of Significance indicating the City's

1 intention to require an Environmental Impact Statement (EIS) to assess the environmental  
2 impacts of the facility. *Ex. RA-38, p. 29.* Upon issuance of the significance determination, the  
3 City solicited public comments regarding what issues should be addressed during environmental  
4 review and the City held a public scoping meeting. *Id.*

5 6.

6 The City issued a Draft EIS (DEIS), held a public meeting, and accepted comments. On  
7 November 9, 2015, the City published the Final EIS (FEIS) for TLNG. *Ex. RA-38, p. 29.*

8 7.

9 The FEIS found, *inter alia*, that the Project would enable TOTE vessels to meet new  
10 emissions standards, and that natural gas has been identified as a key resource to implement  
11 greenhouse gas (GHG) emission reductions for commercial truck, bus, rail, and marine  
12 transportation. *Ex. RA-38, p. 31.* In addition, the FEIS concluded the Proposed Action as  
13 mitigated would have nominal adverse effects on water resources, soils and geology, vegetation,  
14 climate and air quality, health and safety, socioeconomics, and cultural resources. *Id.*

15 8.

16 In 2017, PSE applied to PSCAA for a Permit for TLNG. In its review of a Permit  
17 application, PSCAA engineers are required to ensure that all the proposed processes and  
18 equipment will employ best available control technology (BACT), identify and confirm what air  
19 contaminants may be emitted, and confirm that all applicable agency, state and federal  
20 regulations, and all air quality standards will be met. *Ex. RA-68 (NOC).*

1 9.

2 In late 2017, during PSCAA’s review of PSE’s Permit application, PSCAA concluded  
3 that the FEIS did not account for “upstream” GHG emissions associated with natural gas  
4 extraction and transmission. *Ex. RA-39 (Jan. 24, 2018 Notice of SEIS)*. In addition, PSCAA  
5 determined that the Washington State Department of Ecology (Ecology) guidance document for  
6 identification and evaluation of GHGs, which the FEIS analysis relied upon, had been withdrawn  
7 for revision after completion of the FEIS. *Ex. RA-51, p. 17*. As a result, PSCAA required an  
8 SEIS using a life cycle analysis (LCA) to identify and analyze GHG emissions. *Ex. RA-39*. An  
9 LCA is a cradle-to-grave estimate of the emissions from a production process or a project.  
10 *Unnasch Testimony at 634*. LCAs generally look at direct emissions from the facility as well as  
11 indirect emissions upstream and downstream of the facility. *Ex. PSE-651, p. 10 (Couch Pre-filed*  
12 *Testimony)*.

13 10.

14 Upstream life cycle emissions are the emissions associated with production and transport  
15 of fuel to be used at the LNG production plant: natural gas feedstock, natural gas fuel, diesel  
16 fuel, and electricity. *Ex. RA-51, p. 24*. Direct emissions include all fuel combustion emissions,  
17 as well as fugitive emissions, at the plant. *Id.* The downstream or end-use emissions include the  
18 combustion of the fuels by the end-user as well as fugitive emissions from the equipment that is  
19 burning the fuel. *Id.* End use emissions refer to the final combustion of LNG for vessel/truck  
20 transportation, fugitive emissions from the equipment burning the fuel, and peak shaving  
21 applications. *Id.; Unnasch Testimony at 643*.

1 11.

2 PSCAA retained Life Cycle Associates, LLC to conduct the GHG LCA for the Proposed  
3 Action and No Action (no project) Alternative, and Ecology and Environment, Inc., to conduct  
4 SEIS research, analysis, and document preparation. *Ex. RA-51, p. 9.* Stefan Unnasch of Life  
5 Cycle Associates has over 25 years of experience conducting LCAs for the States of California  
6 and Washington and private entities, including experience in LCAs that involved fuel pathways  
7 such as diesel fuels and LNG. *Ex. RA-4 (Unnasch CV).* Unnasch has prepared hundreds of  
8 LCAs during his work and conducted the LCA for PSCAA. *Unnasch Testimony at 634-35.*

9 12.

10 An LCA has many different inputs. Each one of those inputs has a potential range of  
11 values. A sensitivity analysis is helpful in identifying which input was selected and what effect a  
12 different value would have on the model. *Couch Testimony at 736.*

13 13.

14 The sensitivity analysis for the TLNG LCA included variable assumptions that both  
15 increased and/or decreased the GHG emissions included in the LCA. *Ex. RA-51, p. 46.* A graph  
16 was included in the Final SEIS showing net GHG emissions when different key inputs are used  
17 to calculate GHG emissions. *Ex. RA-51, p. 136, Fig. 5.5.*

18 14.

19 The TLNG LCA identifies and quantifies all GHG emissions associated with natural gas  
20 extraction and transmission, on-site LNG production and storage, and downstream end uses of  
21 the LNG. *Ex. RA-51, p. 17.* The TLNG LCA analyzes the primary GHGs: water vapor, carbon

1 dioxide, methane, and nitrous oxide. *Id.*, p. 75. Carbon dioxide is the most abundant of these  
2 gases. *Id.*

3 15.

4 As part of the SEIS and LCA, several assumptions were made, including:

- 5 • 100 percent of the project’s LNG will displace conventional marine fuel. *Ex. RA-51,*  
6 *p. 94.*
- 7 • Fuel use will remain static over the 40-year lifetime of TLNG. *Ex. RA-51, pp. 31, 35.*
- 8 • Canada would be the source of natural gas for TLNG. *Ex. RA-51, p. 216.*
- 9 • Price induced displacement effects would be so small that they could be ignored  
10 when calculating GHG emissions. *Ex. RA-51, p. 74.*
- 11 • The amount of LNG used for trucking in Scenario A is zero. *Ex. RA-51, p. 29.*
- 12 • All of the project’s customers will have the same fuel efficiency as the TOTE LNG  
13 ships.

14 *Ex. RA-51, (SEIS App. B at 123, 126, 158, 189).*

15 16.

16 Using the LCA, the draft SEIS included a comparison between a No Action Alternative<sup>4</sup>  
17 to PSE’s Proposed Action, and production of 250,000 to 500,000 gallons per day of LNG for use  
18 by marine customers and peak shaving. *Ex. RA-51, p. 6.* The end use of the LNG processed at  
19

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20 <sup>4</sup> The SEIS defined the No Action Alternative as: Construction of the Tacoma LNG Facility, including upgrading of  
21 the natural gas distribution system, would not occur. Existing levels of maritime petroleum fuels use would  
continue. *Ex. RA-51, p. 6.*



1 the facility will go to TOTE marine to fuel their ships, other marine vessels, on-road trucks, and  
2 use by PSE residential and commercial natural gas users, long haul trucks or other marine  
3 transportation. *Ex. RA-51, pp. 6, 81.*

4 17.

5 The Proposed Action was defined as:

6 The Tacoma LNG Facility would be constructed and produce between  
7 approximately 250,000 and 500,000 gallons of LNG per day, for use by marine  
8 customers, including TOTE, as well as regasification into the PSE natural gas  
9 distribution system for peak-shaving purposes. Additional uses would include  
10 providing LNG to other industries or merchants, such as fuel for high-horsepower  
11 trucks used in long-haul trucking or other marine transportation uses. The Tacoma  
12 LNG Facility would operate and be staffed with approximately 16 to 18 full-time  
13 employees 24 hours per day, 365 days a year.

14 *Ex. RA-51, p. 6.* The Proposed Action included two scenarios in the SEIS lifecycle analysis:

15 Scenario A assumed an LNG production rate of 250,000 gallons per day and Scenario B assumed  
16 an LNG production rate of 500,000 gallons per day. *Ex. RA-49, p. 29.*

17 18.

18 Scenarios A and B both included the same count of TOTE marine vessels and peak  
19 shaving. *Ex. RA-49, p. 29.* Scenario B includes the use of more LNG for marine applications  
20 where the LNG is transferred by bunkering barge. *Ex. RA-49, p. 29.* Under the Scenario A, 55  
21 percent of the gas produced at the TLNG facility would be sold to other marine vessels. *Ex. RA-  
51, p. 29, Table 2-1.* Under Scenario B, 73 percent of the gas produced would be sold to other  
marine vessels, and two percent to trucks. *Id.* Other marine vessels are not defined in the SEIS.  
*See Ex. RA-51 generally.*

1 19.

2 The permitted production capacity for TLNG is 250,000 gallons per day, Scenario A in  
3 the SEIS. *Hogan Testimony at 377*. The facility is not currently permitted to produce up to  
4 500,000 gallons per day, and such an expansion would require a revised air permit. *Hogan*  
5 *Testimony at 377*.

6 20.

7 The draft SEIS found that the project would generate 687,639 metric tons (tonnes) of  
8 CO<sub>2</sub>e/year<sup>5</sup> under Scenario A, and 1.387 million tonnes/year under Scenario B. *Ex. RA-49, pp.*  
9 *160 (Table 5.1), 164 (Table 5.3)*. The draft SEIS concluded that the Proposed Action would  
10 result in an overall decrease in GHG emissions in the Puget Sound region, a net beneficial  
11 impact compared to the No Action Alternative. *Ex. RA-49, pp. 18-19*.

12 21.

13 On October 8, 2018, PSCAA issued a draft SEIS and initiated a public comment period.  
14 *Ex. RA-51, p. 17*. Appendix C to the Final SEIS contains the comments received on the draft  
15 SEIS and PSCAA's responses to comments. *Ex. RA-51, pp. 199-283*. In response to comments,  
16 PSCAA confirmed the findings of the draft SEIS, and updated and expanded the sensitivity  
17 analysis with additional variables and assumptions that would both increase and/or decrease the  
18 GHG emissions, including: global warming potential, methane leakage and methane slip values,  
19 and a comparison of AR4 and AR5 values. *Van Slyke Testimony at 530-31; Ex. RA-51, pp. 46,*  
20

21 <sup>5</sup> Carbon dioxide equivalent means the number of metric tons of CO<sub>2</sub> emissions with the same global warming potential as one metric ton of another greenhouse gas.

1 136. Those additional variables included an additional Environmental Defense Fund study  
2 (referred to as “EDF” or “Alvarez”) value for the natural gas upstream calculation. *Van Slyke*  
3 *Testimony at 532; Ex. RA-51, p. 136.* Methane slip was also added to the updated sensitivity  
4 analysis. *Id.*

5 22.

6 The Final SEIS concluded overall reductions in GHG emissions are dependent upon the  
7 assumption that the sole source of natural gas supply to the facility is from British Columbia or  
8 Alberta but entering Washington through British Columbia. *Ex. RA-51, p. 19.* The Final SEIS  
9 recommended the Order of Approval, if issued, contain a condition that the source of natural gas  
10 supply to the facility be solely from British Columbia or Alberta, with specific permit terms and  
11 conditions specifying how compliance with this requirement would be demonstrated on a  
12 continuous basis. *Ex. RA-51, p. 48.* This requirement was set as Condition 41 of the Permit  
13 which requires the natural gas feeding the facility to come through British Columbia to ensure  
14 the facility would remain consistent with the LCA’s calculation of GHG emissions. *Ex. RA-51,*  
15 *pp. 216-218 (SEIS Response to Comments); Van Slyke Testimony at 525-526.*

16 23.

17 The Final SEIS also provided additional information on key aspects of the LCA,  
18 including: an explanation of how the amount of LNG produced by PSE would displace marine  
19 gas oil (MGO); explaining the displacement relationship created between LNG and MGO;  
20 identifying a range of GHG emissions that could be created by PSE’s project as compared to the  
21

1 no action alternative; and information regarding the State of Washington’s overall GHG  
2 emissions inventory. *Ex. RA-51, pp. 39-49.*

3 24.

4 On March 29, 2019, PSCAA finalized the SEIS. *Ex. RA-51, p. 1.* PSCAA issued a draft  
5 Permit Approval for public comment in July 2019 and issued the final Permit on December 10,  
6 2019. *Ex. RA-132.*

7 **1. Appellants’ Witnesses**

8 25.

9 The Appellants presented five witnesses who testified on the SEPA issues: Dr. Ranajit  
10 Sahu, a mechanical engineer and expert in environmental and energy issues; Peter Erickson, the  
11 Climate Policy Program Director at the Stockholm Environment Institute; Dr. Joseph Pratt, a  
12 mechanical engineer and expert in alternative energy technologies; Dr. Thomas Spicer, a  
13 professor of chemical engineering and expert in dispersion modeling; and Dr. David Layton, an  
14 economics professor.

15 26.

16 Dr. Sahu has a bachelor’s in mechanical engineering from the Indian Institute of  
17 Technology, a master’s in mechanical and combustion specialization from Caltech, as well as a  
18 Ph.D. in combustion from the same. Dr. Sahu is currently an independent consultant focusing on  
19 air quality requirements for private, public, and non-profit clients. *Ex. APTI-587, pp. 85-86*  
20 *(Sahu Amended Pre-filed Testimony)*. Relating to the SEPA issues, Dr. Sahu provided expert  
21 testimony that the SEIS underestimated TLNG’s emissions of N<sub>2</sub>O.

1 27.

2 Erickson provided opinion testimony on the methodologies and conclusions contained in  
3 the SEIS and the LCA. Erickson has been commissioned as a researcher by the United Nations,  
4 the World Bank, and the U.S. Environmental Protection Agency (EPA) to conduct and lead  
5 research projects on GHG emissions accounting and the role of policy mechanisms in reducing  
6 GHG emissions. Erickson has been published in peer-reviewed journals, including Nature,  
7 Nature Energy, and Climate Policy. *Ex. ACT-108, pp. 1-2 (Erickson Pre-filed Testimony).*

8 28.

9 Dr. Pratt has a bachelor's degree in mechanical engineering from the University of  
10 Washington, as well as a master's and a Ph.D. in mechanical and aerospace engineering from the  
11 University of California- Irvine. From 2010 to 2018, Dr. Pratt worked for the U.S. Department  
12 of Energy where he focused on transitioning to alternative energy technologies. Dr. Pratt is the  
13 founder of Golden Gate Zero Emission Marine which seeks to provide hydrogen fuel cell  
14 technology to the marine market. *Ex. ACT-107, pp. 1-2 (Pratt Pre-filed Testimony).* Dr. Pratt  
15 provided expert testimony challenging the GHG assumptions in the TLNG SEIS No Action  
16 Alternative and opined that correcting these assumptions would likely show that TLNG has a  
17 higher GHG impact than what was presented in the SEIS.

18 29.

19 Dr. Spicer has a bachelor's degree, a master's, and Ph.D. in chemical engineering from  
20 the University of Arkansas. Dr. Spicer's consulting clients include the American Petroleum  
21 Institute, U.S. EPA, U.S. Department of Justice, U.S. National Oceanic and Atmospheric

1 Administration, and the U.S. Department of Homeland Security. Dr. Spicer testified as an expert  
2 on the TLNG design changes and presented his opinion about potentially significant unexamined  
3 health and safety adverse consequences due to these design changes.

4 30.

5 Dr. Layton, a professor of economics and microeconomics, provided expert testimony  
6 challenging the 1-for-1 displacement analysis in the LCA. Dr. Layton is a Professor and  
7 Associate Dean at the University of Washington Evans School of Public Policy and Governance.  
8 *Ex. APTI-561, p. 3. (Layton Pre-Filed Testimony).* Dr. Layton’s research is primarily focused on  
9 applied econometrics, microeconomics, and environmental policy. *Id.*

10 **2. PSE Witnesses**

11 31.

12 PSE presented ten witnesses who testified on the SEPA issues: Patrick Couch, Senior  
13 Vice President of Technical Services at Gladstein, Neandross, and Associates; Jan Hagen  
14 Andersen, Senior Principal Engineer at DNV, an expert in global marine shipping and alternative  
15 and low carbon fuels for marine shipping; Dr. Armando Levy, an economist and professor of  
16 economics with extensive experience in fuels markets, GHG cap and trade issues in California  
17 and other GHG projects; Jim Hogan, LNG Project Manager for PSE’s project; Blake Littauer,  
18 Director of Business Development at Puget LNG, a sister company of PSE; Matthew Stobart,  
19 Project Engineering Manager with CB&I, with 37 years of experience working with LNG;  
20 William Donohue, Manager of Natural Gas Resources for PSE; Dr. Shari Libicki, a chemical  
21 engineer and principal at Ramboll US Corporation, Dr. Joseph Smith, a chemical engineer, and,

1 Dr. Filippo Gavelli, a mechanical engineer who performs safety studies for oil and gas facilities,  
2 particularly LNG facilities.

3 32.

4 Couch provided expert testimony in support of the LCA methodologies for calculating  
5 GHG emissions that Life Cycle Associates conducted on behalf of PSCAA. Couch is the Senior  
6 Vice President of technical services at Gladstein, Neandross, and Associates, a clean  
7 transportation consulting firm. *Ex. PSE-651, p. 6 (Couch Pre-filed Testimony)*. Couch has a  
8 bachelor's and master's in mechanical engineering from the University of California-Irvine, with  
9 specializations in combustion and propulsion technologies. His primary responsibilities include  
10 assisting members of the transportation sector, including fleets and regulators, to transition from  
11 traditional to alternative fuels. Couch was involved in approximately 25-50 LCAs over his  
12 career, with several involving marine fuels. *Couch Testimony at 725*. In the present case,  
13 Couch assisted PSE in responding to PSCAA's requests for information regarding the direct,  
14 indirect and cumulative GHG lifecycle emissions outlined in the SEIS for TLNG. *Ex. PSE-651,*  
15 *p. 8 (Couch Pre-filed Testimony)*.

16 33.

17 Andersen, a mechanical engineer in the maritime industry, testified as an expert in marine  
18 vessel fuels, including existing and emerging fuel alternatives that effectively decrease a ship's GHG  
19 emissions. Andersen advises maritime clients on alternative fuels for shipping, environmental  
20 compliance, energy efficiency, and novel maritime technologies. He has over 30 years of experience  
21 in the maritime industry, including expertise in the growing LNG bunkering industry. Andersen

1 provided an expert opinion as to why the assumptions and conclusions contained in the SEIS  
2 regarding marine fuel displacement and methane slip from marine vessel engines are reasonable to  
3 assess the foreseeable potential impacts of the TLNG Project over the Project's life. *Ex. PSE-652, p.*  
4 *5 (Andersen Pre-filed Testimony).*

5 34.

6 Dr. Levy is an economist and principal at The Brattle Group, an international economic  
7 consultancy that provides economic analysis on behalf of companies and governments, with a  
8 particular focus on energy and climate issues. *Ex. PSE-653, p. 2 (Levy Pre-Filed Testimony).*

9 Levy offered expert testimony as to why it was reasonable to use a 1-for-1 displacement analysis  
10 in the LCA. *Id.*

11 35.

12 Hogan is a project manager for PSE, has a Bachelor of Science in mechanical  
13 engineering, and has obtained certifications in project management and contract management.  
14 *Hogan Testimony at 363.* Hogan provided an overview of the purpose of TLNG and its design  
15 history. *Id. at 364-368.*

16 36.

17 Littauer is the Director of Business Development for Puget LNG, a sister company of  
18 PSE. Littauer is responsible for identifying potential customers and selling TLNG to potential  
19 customers. *Littauer Testimony at 420.*



1 37.

2 Stobart is a manager for CB&I, the company PSE contracted to handle the design and  
3 construction of TLNG, including identifying and selecting equipment vendors. *Stobart*  
4 *Testimony at 966, 1992.* Stobart serves as Project Engineering Manager for TLNG. *Id. at 971.*  
5 His primary responsibility is to serve as the technical liaison and point of contact between PSE  
6 and CB&I. *Id. at 972.* As part of his duties, Stobart reviewed siting studies prepared to  
7 determine whether TLNG complied with the applicable codes, regulations and laws required in  
8 the particular location TLNG is sited. *Id. at 973.*

9 38.

10 Donahue is responsible for managing PSE's entire portfolio of natural gas transportation  
11 contracts. As part of that responsibility, Donahue identifies and analyzes opportunities for PSE  
12 to provide energy services. Prior to working for PSE, Donahue was employed by the Northwest  
13 Pipeline. *Donahue Testimony at 1790-91.*

14 39.

15 Dr. Libicki has a Bachelor of Science in engineering and chemical engineering, and a  
16 master's and Ph.D. in chemical engineering. Dr. Libicki is currently a principal at Ramboll US  
17 Corporation, where she has been employed for 30 years as an air quality professional doing air  
18 quality permitting, dispersion modeling, exposure assessments for risk assessments, and  
19 emission estimates. *Ex. PSE-374, pp. 1-4 (Libicki Pre-filed Testimony).*

1 40.

2 Dr. Smith teaches courses on flare design and operation. Dr. Smith has a bachelor's and  
3 master's and Ph.D. in chemical engineering from Brigham Young University. During his Ph.D.  
4 studies, Dr. Smith was a researcher for the Advanced Combustion Engineering Research Center  
5 funded by the National Science Foundation. *Ex. PSE-649, p. 2 (Smith Pre-filed Testimony).*

6 41.

7 Dr. Gavelli is an engineering consultant with Blue Engineering and Consulting Company.  
8 His primary responsibility is to perform safety studies for oil and gas facilities, particularly LNG  
9 facilities. Dr. Gavelli has a bachelor's degree and Ph.D. in mechanical engineering. Dr. Gavelli  
10 works as a consultant, focusing on fires and explosion investigations, hazard analyses and risk  
11 assessments of LNG facilities. *Ex. PSE-645, p. 2 (Gavelli Declaration).* He has performed  
12 siting studies for numerous LNG facilities and has performed reviews of siting studies on behalf  
13 of the U.S. Department of Transportation-The Pipeline and Hazardous Materials Safety  
14 Administration (PHMSA). He is the principal investigator for a PHMSA-sponsored effort to  
15 develop model evaluation protocols for the Proposed TLNG Project. *Id., p. 3.* Dr. Gavelli  
16 testified regarding the TLNG facility design changes and addressed the safety and hazard issues  
17 raised by the Appellants. *Ex. PSE-645 (Gavelli Declaration).*

18 **3. Agency Witnesses**

19 42.

20 PSCAA presented four witnesses who testified on the SEPA issues: Steven Van Slyke,  
21 Agency Director of Compliance; Carole Cenci, Agency Senior Engineer and SEPA Responsible

1 Official; Ralph Munoz Agency Permitting Engineer, and Stefan Unnasch, Managing Director of  
2 Life Cycle Associates.

3 43.

4 Van Slyke is a registered professional engineer in Washington State with over 38 years of  
5 air quality experience. During his time with PSCAA, he has reviewed and approved over 1,500  
6 NOC applications. Van Slyke has a bachelor's degree in chemical engineering from the  
7 University of Idaho. *Ex. RA-1 (Van Slyke resume)*. As the Director of Compliance, Van Slyke  
8 provided oversight and technical support for PSCAA's review of PSE's application. *Van Slyke*  
9 *Testimony at 451*. Van Slyke testified regarding his familiarity and experience with calculating  
10 air emissions, equipment and processes in PSE's application; SEPA requirements, applicable  
11 regulatory thresholds, BACT determinations and NOC conditions. *Van Slyke Testimony at 1828-*  
12 *30, 1844-48, 1882-86*.

13 44.

14 Cenci has a bachelor's degree in mechanical engineering from the University of  
15 Minnesota and has been a licensed engineer since 1990. She serves as PSCAA's Manager of  
16 Compliance. *Ex. RA-2 (Cenci resume)*. Her responsibilities included reviewing Ralph Munoz's  
17 work as the permitting engineer on the TLNG Project. *Cenci Testimony at 1115*. Cenci testified  
18 regarding her review of the TLNG Project and ensuring SEPA requirements were met. *Id. at*  
19 *1109*.

1 45.

2 Munoz served as PSCAA's permitting engineer for TLNG. Munoz's responsibilities at  
3 PSCAA include reviewing incoming NOCs and making determinations as to the adequacy of  
4 proposed control technology as well as the applicability of various regulations. *Ex. RA-3 (Munoz*  
5 *resume)*. Munoz testified regarding his role as PSCAA's permitting engineer for TLNG and his  
6 experience and understanding with fugitive emissions, vaporizers and flares, and calculating  
7 emissions related to those types of control equipment. *Munoz Testimony at 2315-17.*

8 46.

9 As the Managing Director of Life Cycle Associates, Unnasch is experienced with  
10 alternative energy options and ventures to examine the potential for carbon emission reductions.  
11 He specializes in the life cycle assessment and economic evaluation of alternative and renewable  
12 fuel pathways. *Ex. RA-4 (Unnasch resume)*. He has performed fuel cycle analysis studies since  
13 1987 and has developed analytical approaches that adhere to California's environmental  
14 regulations. *Id.* He has also worked on projects involving economic analysis of alternative fuels  
15 in California and Washington. *Id.* Unnasch provided testimony about the LCA he conducted,  
16 the basis for the assumptions, the sensitivity analysis, and the response to public comments.

17 **V. GENERAL CONCLUSIONS OF LAW**

18 47.

19 The Board has jurisdiction over the subject matter and the parties pursuant to RCW  
20 43.21B.110. As the parties appealing the SEIS and order approving the Permit application, the  
21

1 Tribe and ACT have the burden of proof. WAC 371-08-485(3); *MYTAPN v. Dep't of Ecology*,  
2 PCHB No. 10-162, COL 1 (July 25, 2012).

3 48.

4 The Board's standard and scope of review is *de novo*. WAC 371-08-485(1). The Board  
5 makes findings of facts based on a preponderance of the evidence. WAC 371-08-485(2). The  
6 Board gives great weight to PSCAA's interpretation of the laws it is charged with administering,  
7 and deference to PSCAA's specialized knowledge and expertise on complex scientific or  
8 technical judgments. *Port of Seattle v. Pollution Control Hr'gs Bd.*, 151 Wn.2d 568, 592-93, 90  
9 P.3d 659 (2004); *Marine Vacuum Svcs. v. Puget Sound Clean Air Agency*, PCHB No. 16-130c,  
10 COL 2 (Feb. 8, 2018). The Board also gives deference to PSCAA's interpretations of permit  
11 conditions that involve technical or scientific judgments. *City of Snoqualmie v. Dep't of*  
12 *Ecology*, PCHB No. 14-064, p. 16 (Feb. 2, 2015). The Board can decide a case based on all of  
13 the evidence available at the time of the hearing, including additional information gathered after  
14 issuance of the challenged order. *Port of Seattle*, 151 Wn.2d at 597-98; *BNSF Ry Co. v. Dep't of*  
15 *Ecology*, PCHB No. 11-150, p. 11 (Dec. 4, 2012). Allowing the agency to analyze such  
16 additional information allows the Board to fulfill its charge to give deference to a permitting  
17 agency's expertise on issues that involve technical or scientific judgments. *Port of Seattle*, 151  
18 Wn.2d at 592-593; *Buxton v. Dep't of Ecology*, PCHB No. 07-033, p. 10 (Dec. 21, 2007).

1 **A. SEPA and the EIS Process**

2 49.

3 With the enactment of SEPA in 1971, the legislature sought to bring an environmental  
4 consciousness into government decision making. *Millennium Bulk Terminals, et al. v. Dep't of*  
5 *Ecology, et al.*, PCHB No. 17-090, p. 10 (August 15, 2018). The stated purposes of SEPA are:

6 (1) To declare a state policy which will encourage productive and enjoyable  
7 harmony between humankind and the environment; (2) to promote efforts which  
8 will prevent or eliminate damage to the environment and biosphere; (3) and [to]  
9 stimulate the health and welfare of human beings; and (4) to enrich the  
10 understanding of the ecological systems and natural resources important to the state  
11 and nation.

12 RCW 43.21C.010 (alteration in original). SEPA recognizes the broad policy "that each person  
13 has a fundamental and inalienable right to a healthful environment." RCW 43.21C.020(3).

14 50.

15 The primary focus of SEPA is on the decision-making process. SEPA seeks to ensure  
16 that environmental values are given appropriate consideration. *Stempel v. Dep't of Water Res.*,  
17 82 Wn.2d 109, 118, 508 P.2d 166 (1973); *Moss v. City of Bellingham*, 109 Wn. App. 6, 14, 31  
18 P.3d 703 (2001). The government agency must assemble and review full environmental  
19 information before rendering a decision. *Davidson Series & Assocs. v. City of Kirkland*, 159  
20 Wn. App. 616, 634-35, 246 P.3d 822 (2011).

21 51.

SEPA requires an EIS only for "major actions having a probable significant, adverse  
environmental impact." *Boehm v. City of Vancouver*, 111 Wn. App. 711, 718, 47 P.3d 137

1 (2002); RCW 43.21C.031(1). The purpose of an EIS is to ensure SEPA’s policies are an integral  
2 part of state and local actions by providing an impartial discussion of significant environmental  
3 impacts. WAC 197-11-400. “The primary function of an EIS is to identify adverse impacts to  
4 enable the decision-maker to ascertain whether they require either mitigation or denial of the  
5 proposal.” *Victoria Tower P’ship v. City of Seattle*, 59 Wn. App. 592, 601 (1990); WAC 197-  
6 11-400(2). To achieve these goals, SEPA requires disclosure of “significant” adverse impacts that  
7 arise from governmental actions. An impact is significant when there is a “reasonable likelihood of  
8 more than a moderate adverse impact on environmental quality.” WAC 197-11-794. SEPA  
9 empowers agencies to mitigate impacts, or deny the project altogether, when adverse impacts are  
10 significant. RCW 43.21C.060; WAC 197-11-660; PSCAA Regulation I, § 2.12.

11 52.

12 The Board does not rule on the wisdom of the proposed project but rather on whether the  
13 EIS gave the agency sufficient information to make a reasoned decision. *See Citizens All. to*  
14 *Protect Our Wetlands v. City of Auburn*, 126 Wn.2d 356, 362, 894 P.2d 1300, 1304 (1995).

15 **B. Rule of Reason**

16 53.

17 The SEPA legal issues in this case challenge the adequacy of the SEIS’s assessment of  
18 lifecycle greenhouse gas emissions on many grounds, claiming that it was arbitrary,  
19 unreasonable, incorrect, or otherwise violated SEPA. The determination of whether an EIS is  
20 adequate is a question of law subject to de novo review. *OPAL v. Adams County*, 128 Wn.2d  
21 869, 875, 913 P.2d 793 (1996). EIS adequacy refers to the legal sufficiency of the environmental

1 data contained in the impact statement. *Klickitat County Citizens Against Imported Waste v.*  
2 *Klickitat County*, 122 Wn.2d 619, 633, 860 P.2d 390 (1993), amended, 866 P.2d 1256 (1994)  
3 (citing R. Settle, *The Washington State Environmental Policy Act: A Legal and Policy Analysis*  
4 § 14(a) (i) (4th ed. 1993)). The adequacy of an EIS is tested under the “rule of reason.” *SEAPC*  
5 *v. Cammack II Orchards*, 49 Wn. App. 609, 614, 744 P.2d 1101 (1987). The rule of reason is  
6 “in large part a broad, flexible cost-effectiveness standard,” in which the adequacy of an EIS is  
7 best determined “on a case-by-case basis guided by all of the policy and factual considerations  
8 reasonably related to SEPA's terse directives.” *Klickitat County Citizens*, 122 Wn.2d at 633  
9 (internal citations omitted). The adequacy of a particular discussion of environmental effects in  
10 an EIS under the rule of reason depends on whether the environmental effects are sufficiently  
11 disclosed, discussed, and substantiated by supporting data and opinion. *Id.* at 644. When  
12 reviewing an EIS, the Legislature has directed that the decision of the agency regarding the  
13 adequacy of an EIS be “accorded substantial weight.” RCW 43.21C.090.

### 14 **C. Agency Deference**

15 54.

16 Appellants argue that PSCAA is not entitled to deference because PSCAA had never  
17 completed a lifecycle GHG analysis before this one, and they did little independent research on  
18 key issues. *Appellants' Closing Brief on SEPA Issues (Issue 2)*, p. 10. Appellants are correct  
19 that agencies are not entitled to deference on matters outside their expertise. *Port of Seattle*, 151  
20 Wn.2d at 595. However, SEPA designates the regional air pollution control agency as  
21 possessing special expertise regarding air quality. WAC 197-11-920(1)(d). PSCAA's



1 experience and expertise lies in identifying and calculating air emissions (including from the  
2 types of equipment and processes in this case); applying regulatory thresholds; determining  
3 BACT and establishing permit conditions. ¶¶ 43-45;<sup>6</sup> Exs. RA-1, 2, 3 (PSCAA resumes).

4 55.

5 Deference is given to the agency pursuant to RCW 43.21C.090 and WAC 197-11-  
6 920(1)(d). The agency also is given deference in the exercise of its technical judgment; its  
7 interpretation of the CAA and its regulations; and the conditions it has written. *Port of Seattle*,  
8 151 Wn.2d at 593-96. PSCAA, as the lead agency for the SEIS, hired an outside consultant to  
9 conduct the LCA. Van Slyke stated the LCA uses a combination of emission estimates and  
10 factors, that it is a very expansive emission estimation and comparison tool, and that PSCAA has  
11 the technical expertise to understand and use the LCA in the SEIS. *Van Slyke Testimony at 493*;  
12 ¶ 43. Cenci asserted she did a thorough review of several drafts of the life cycle analyses and  
13 understands emissions calculations through years of experience and training as an engineer. ¶  
14 44; *Cenci Testimony at 1118, 1148*.

15 56.

16 Despite this being PSCAA's first experience with an LCA, PSCAA has experience with  
17 the key components of an LCA including calculating emissions, SEPA standards of review,  
18 types of equipment and processes at TLNG, and applying regulatory thresholds. ¶43-45. Given  
19 PSCAA's experience and the statutory mandate that the Board must accord PSCAA's decision  
20

21 \_\_\_\_\_  
<sup>6</sup> Paragraph references are to internal paragraph numbers within this Order.

1 substantial weight, the Board concludes deference must be given to PSCAA in its review of and  
2 conclusions within the SEIS, including the LCA.

## 3 **VI. FINDINGS/CONCLUSIONS BY LEGAL ISSUE**

### 4 **A. Supplemental Environmental Impact Statement**

#### 5 **1. 1-for-1 Fuel Displacement (Issue 2a)**

6 57.

7 Appellants claim the SEIS relies on an incorrect and unsupported claim of 1-for-1 fuel  
8 displacement, and an assumption that fuel use will not change over the 40-year life of the  
9 facility. *Appellants' Closing Brief on SEPA Issues (Issue 2)*, p. 16. Appellants further argue that  
10 PSCAA's assumption that 100 percent of the Project's LNG fuel will displace MGO is  
11 unsupported and unreasonable because the 1-for-1 displacement assumption is contrary to  
12 economic principles, courts have rejected similar assumptions, and SEIS should have used a  
13 dynamic baseline when examining displacement. *Appellants' Closing Brief on SEPA Issues*  
14 *(Issue 2)*, pp. 16-26.

15 58.

16 Displacement in this case refers to the anticipated amount by which LNG produced at  
17 TLNG will replace conventional diesel marine fuels, particularly MGO. *Layton Testimony at*  
18 *305-307; Ex. PSE-653, p. 3 (Levy Pre-filed Testimony)*. The displacement analysis is one part of  
19 PSCAA's LCA for downstream and upstream GHG emissions from TLNG. *Layton Testimony at*  
20 *305-307; Ex. PSE-653, p. 3 (Levy Pre-filed Testimony)*.

1 59.

2 The SEIS states displacing diesel and MGO will have an effect on petroleum fuel markets  
3 because the increase in supply will reduce price and induce a small increase in demand. *Ex. RA-*  
4 *51, p. 97.* The SEIS concluded this effect is very small since the amount of petroleum fuel  
5 displaced is a small fraction of the global supply. *Id.*

6 60.

7 Unnasch used a 1-for-1 displacement assumption in the LCA assuming that no market  
8 induced displacement effects would occur because the effect of the TLNG project on  
9 Washington MGO prices represents a very small fraction of the total fuel market. *Ex. RA-51, p.*  
10 *74, n. 3; Unnasch Testimony at 645, 670-671.* The facility's LNG production would be 0.06  
11 percent of the global marine fuels market at 250,000 gpd. *Ex. PSE-652, p. 41 (Andersen Pre-*  
12 *filed Testimony).* The 1-for-1 displacement has been used in other fuel LCAs in California and  
13 Washington. *Unnasch Testimony at 644-645.*

14 61.

15 Dr. Layton, a professor of economics, testified on behalf of Appellants challenging the  
16 100 percent displacement rate assumption in the LCA. Dr. Layton opined that even while  
17 maintaining all other SEIS assumptions, if the displacement rate drops merely 3 percent (from  
18 100 percent to 97 percent) the project becomes a net emitter of GHGs. *Ex. APTI-561, pp. 12-13*  
19 *(Layton Pre-filed Testimony); Layton Testimony at 308.* He opined that even a small  
20 displacement rate change can cause a significant increase in GHGs. Drawing from available data  
21 to calculate the elasticities of the whole oil and natural gas markets, Dr. Layton opined that using

1 a displacement rate of between 54 percent and 72 percent would yield a net increase of 25  
2 percent to 43 percent (175,000 to 300,000 tons per year) of GHG emissions compared to the No  
3 Action Alternative. *Layton Testimony at 311-316.*

4 62.

5 Dr. Levy, also an economist, testified on behalf of PSE. Dr. Levy has particular  
6 experience in petroleum markets and has worked on projects which related to economic  
7 evaluations associated with life cycle analyses of GHG emissions. *Ex. PSE-653, p. 2 (Levy Pre-*  
8 *filed Testimony)*. Dr. Levy testified that it was reasonable for PSCAA to calculate the rate of  
9 GHG emissions displacement of MGO by LNG as 1-for-1 (for every unit of LNG used, there is a  
10 commensurate unit of MGO that is not used on an equal energy basis). *Id., pp. 3-4.*

11 63.

12 Dr. Levy opined that PSCAA's 1-for-1 displacement assumption was reasonable for three  
13 reasons: (1) demand for petroleum fuel is relatively inelastic; (2) petroleum refineries are elastic  
14 and can respond to market opportunities, such as the emergence of LNG as an alternative to  
15 MGO, and (3) as ships convert to LNG, there will be a displacement effect in the LNG market  
16 where LNG customers crowd out other potential LNG consumers by driving the price up. *Ex.*  
17 *PSE-653, pp.4-6 (Levy Pre-filed Testimony)*. Taken together, he says, the fluctuations between  
18 the MGO and LNG market will essentially cancel each other out. *Id., p. 9.* In addition, the  
19 effects on the global marine fuel market will be small, and whether the facility is built or not, the  
20 demand for energy remains the same. *Levy Testimony at 847.*

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64.

Dr. Levy and Dr. Layton disagreed on how to calculate demand and supply price elasticity. Both economists agree that there are no available studies on the submarket elasticities of MGO and LNG. *Ex. APTI-561, pp. 21, 26 (Layton Pre-filed Testimony); Levy Testimony at 864.*

65.

Dr. Levy asserted that there is an example of a 1-for-1 displacement which occurred in 2014 when TOTE converted its Puerto Rico-Florida fleet from conventional bunker fuels to LNG. *Ex. PSE-653, p. 12 (Levy Pre-filed Testimony).* When TOTE converted two ships from MGO to LNG on its Puerto Rico-Florida route, it stopped using MGO and only used LNG. *Id.* MGO demand collapsed at TOTE after its fleet converted to LNG. *Id.*

66.

Unnasch has worked on LCAs and has also worked on projects involving economic analyses of alternative fuels. *Ex. RA-4, p. 3.* He testified that Dr. Layton's displacement analysis is not typical in fuel LCAs, including those conducted for the states of California and Washington and the EPA. *Unnasch Testimony at 671.* He argued Dr. Layton's analysis simply takes a ratio of two numbers, and the consequential effects are very small and not appropriate for this type of life-cycle analysis. *Id.*

67.

The LCA explains the 1-for-1 assumption:

1 Displacing MGO will have a small effect on MGO consumption. The classical  
2 consequential LCA approach is to assume that more MGO is available on the  
3 market and that the price of MGO drops in response to increased supply. The drop  
4 in price results in an increase in consumption elsewhere due to price induced  
5 demand. The effect the Tacoma LNG project on Washington MGO prices will be  
extremely small since it represents a very small fraction of the total fuel market.  
Ultimately, this assumption implies that crude oil to make MGO is not produced  
and that no additional demand for marine diesel fuel or other oil refinery products  
is induced elsewhere in the world.

6 *Ex. RA-51, p. 74, n. 3.* Unnasch testified that he prepared the footnote above in the SEIS to  
7 explain that Life Cycle Associates was not doing a consequential analysis because the price-  
8 induced effect would be small. *Unnasch Testimony at 669-70; Ex. RA-51, p. 74.*

9 68.

10 Couch also testified that Dr. Layton's economic analysis was not specific to the location  
11 of the project and the markets in which TLNG facility would participate. *Couch Testimony at*  
12 *759-60.* He stated it is typical for a project of this size and scale to use 1-for-1 displacement. *Id.*  
13 *at 751-52.*

14 69.

15 Dr. Layton testified he had never worked on an LCA and only looked at the displacement  
16 assumption in the TLNG SEIS. *Layton Testimony at 339-340.* Dr. Layton does not have a  
17 background with transportation or marine fuel supply and demand. *Id. at 340-341.* The Board  
18 finds and concludes that Dr. Layton's opinion regarding supply and demand elasticities was  
19 theoretical in nature, was not specific to TLNG markets, and this type of economic analysis was  
20 not typically applied to fuel LCAs. Moreover, Dr. Layton did not have any expertise conducting  
21

1 an LCA. Accordingly, the Board gives more weight to Dr. Levy, Unnasch and Couch’s credible  
2 testimony supporting the reasonableness of the 1-for-1 displacement assumption in the LCA.

3 70.

4 In reviewing the adequacy of the TLNG SEIS, the Board finds and concludes PSCAA’s  
5 use of a 1-for-1 displacement assumption meets the rule of reason. Appellants assert the 1-for-1  
6 displacement assumption was unsupported with data or analysis. However, the LCA assumed a  
7 1-for-1 displacement assumption because the effect of the Project on Washington MGO prices  
8 will be extremely small since it represents a very small fraction of the total fuel market. ¶¶ 59,  
9 60, 63, 67. Experts who have conducted LCAs testified this kind of economic assumption is  
10 typical in fuel LCAs for projects this size. ¶¶ 60, 67, 68. Appellants assert PSCAA should have  
11 used a different displacement rate such as the one presented by Dr. Layton. However, the Board  
12 gives more weight to Respondents’ experts’ testimony on this issue than Dr. Layton’s testimony.  
13 ¶ 69.

14 71.

15 Appellants argue that courts have rejected displacement assumptions in EISs for other  
16 fossil fuel projects, therefore the Board should also do so in this case. In support, Appellants cite  
17 to several federal district court and appellate court cases where the courts have applied the rule of  
18 reason to find an agency’s EIS was arbitrary and capricious. *See WildEarth Guardians v. BLM*,  
19 870 F.3d 1222, 1237-38 (10th Cir. 2017); *see also Center for Biological Diversity v. Bernhardt*,  
20 982 F.3d 723, 736, 740 (9th Cir. 2020); *and see High Country Conserv. Advocates v. U.S. Forest*  
21 *Serv.*, 52 F. Supp. 3d 1174, 1197-98 (D. Colo. 2014). The Board finds these cases to be

1 inapposite. The court in *Bernhardt* found the agency to be arbitrary and capricious in part  
2 because the agency should have given a quantitative estimate of downstream GHGs and failed to  
3 include emissions estimates from foreign oil consumption. *Bernhardt* 982 F.3d at 740. The  
4 SEIS for TLNG provides quantitative estimates of downstream GHGs and considers the global  
5 market for MGO and LNG and the entire lifecycle of GHG emissions. ¶¶ 9, 10, 11, 14, 23, 32,  
6 60, 63, 68.

7 72.

8 In *High Country*, the court found the agency was arbitrary and capricious where it  
9 acknowledged there might be impacts from GHGs in the form of methane emitted from mine  
10 operations but stated they could not quantify the climate impacts from such emissions. The  
11 record showed there was a tool available for that specific purpose, and the agency’s failure to  
12 utilize it was arbitrary and capricious. *High Country*, 52 F. Supp. at 1193. There is no similar  
13 failure here on the part of PSCAA. The whole purpose of the SEIS was to quantify GHG  
14 emissions. PSCAA conducted an LCA and gathered and addressed public comments about the  
15 way in which the LCA calculated GHG emissions. ¶¶ 9, 10, 11, 12, 13, 14, 21. PSCAA then  
16 evaluated and included eleven variable inputs in the LCA sensitivity analysis, providing  
17 quantifiable GHG emissions data. ¶¶ 12, 13, 21.

18 73.

19 Appellants argue that similar to *WildEarth*, the SEIS here violated the rule of reason  
20 because the 1-for-1 displacement relies on an economic assumption which contradicts basic  
21 economic principles. *Appellants’ Closing Brief on SEPA Issues (Issue 2)*, p. 19. In *WildEarth*,



1 the EIS assumed there would be no real-world difference between issuing coal leases and  
2 declining to issue them because third party sources of coal would perfectly substitute for any lost  
3 volume. 870 F.3d at 1234-36. Applying the National Environmental Policy Act (NEPA), the  
4 court stated “[t]he evidence must be sufficient in volume and quality to ‘sharply defin[e] the  
5 issues and provid[e] a clear basis for choice among options.’” *Id.* at 1235 (citing *Citizens’*  
6 *Comm. To Save Our Canyons v. Krueger*, 513 F.3d 1169, 1179 (10<sup>th</sup> Cir. 2008). The court  
7 concluded that there was only a blanket assertion that coal would be substituted from other  
8 sources without any data. *Id.* Contrary to the facts in *WildEarth*, the SEIS explained why the  
9 LCA used a 1-for-1 displacement assumption. ¶¶ 59, 66, 67. Unnasch, Couch, and Dr. Levy  
10 also provided expert testimony on the reasonableness of using a 1-for-1 assumption in the LCA.  
11 ¶¶ 60, 62, 63, 65-68.

12 74.

13 In addition, Appellants argue the economic assumption is a foundational piece of the  
14 analysis of the environmental impact being assessed and, therefore, must be supported with data  
15 and analysis in the SEIS. An EIS, however, is not required to evaluate and document all the  
16 possible effects and consideration of a decision or to contain the balancing judgments that must  
17 ultimately be made by the decision makers on a proposal. *See* WAC 197-11-448(1). Economic  
18 competition is one type of an example of information that is not required in an EIS. WAC 197-  
19 11-448(3). The Board concludes a more detailed analysis of the 1-for-1 displacement  
20 assumption is not required in the SEIS.

1 75.

2 Appellants also argue the Board should disregard the testimony from non-economists  
3 regarding Dr. Layton’s opinion. But as stated above, the Board gives greater weight to witnesses  
4 with experience conducting LCAs. ¶ 69. Moreover, a detailed economic analysis was  
5 unnecessary in the SEIS.

6 **2. Static Baseline Assumption (Issue 2a)**

7 76.

8 Appellants assert the SEIS’s assumption that the marine industry as it exists today will  
9 remain unchanged over the next 40 years is misleading and unreasonable. *Appellants’ Closing*  
10 *Brief on SEPA Issues (Issue 2)*, p 27 (citing *Ex. RA-51*, p. 31). They argue this static baseline  
11 assumption in the “no action” scenario was flawed, and that a dynamic baseline should have  
12 been used.

13 77.

14 Erickson and Dr. Pratt testified that PSCAA should have used a dynamic baseline when  
15 calculating displacement that includes alternate future scenarios to reasonably evaluate the  
16 potential impacts to the facility. *Erickson Testimony at 77-78; Pratt Testimony at 153-156*.  
17 Dynamic baselines consider foreseen changes in technology and behavior and conditions over  
18 time. *Ex. ACT-108*, p. 12 (*Erickson Pre-filed Testimony*). In the case of TLNG, Erickson stated  
19 that dynamic baselines would assess plausible future changes in marine and on-road shipping  
20 technologies and the market share of battery electric, hydrogen fuel cell, and other low-carbon  
21 technologies. *Id.*

1 78.

2 Dr. Pratt opined that the likelihood of increased regulation combined with developed  
3 alternative technologies will cause the shipping industry to invest in new fuels or technologies to  
4 reduce emissions in the coming decades. *ACT-107, p. 6 (Pratt Pre-filed Testimony)*. He testified  
5 that available alternative fuels include renewable diesel; bio-LNG, biodiesel, bioethanol, and  
6 hydrogen fuel cells. *Id., p. 11*.

7 79.

8 Respondents countered that it was reasonable to use a static baseline assumption. Couch  
9 testified that using a dynamic baseline requires a substantial number of assumptions, many of  
10 which are difficult or impossible to verify or support, and it becomes a very speculative analysis.  
11 *Couch Testimony at 752-753*. In his experience in the EIS context, assumptions about the future  
12 generally require grounding those assumptions in specific enforceable regulations. *Id. at 752*.  
13 The use of a static baseline is not an affirmative assertion that nothing will change in the future,  
14 but a recognition that how things will change in the future is sufficiently unclear that the  
15 magnitude and direction of change cannot be estimated. *Id. at 754*.

16 80.

17 Andersen opined that it would be speculative for PSCAA to analyze alternative fuels  
18 such as hydrogen. *Ex. PSE-652, p. 34 (Andersen Pre-filed Testimony)*. LNG is the only  
19 commercially viable fuel that provides GHG emissions benefits to large ocean-going vessels.  
20 *Andersen Testimony at 893*. Andersen defined a large ocean-going vessel as a commercial ship,  
21 a container vessel, a bulk carrier, general cargo vessel, large passenger vessels, oil and product

1 tankers, and Ro-Ro vessels that have more than 5,000 gross tonnage and use a large engine and  
2 more than 400 feet in length. *Id. at 905*. Andersen testified that smaller vessels are unlikely to  
3 convert to LNG because they lack sufficient space for LNG storage tanks, conversions are cost-  
4 prohibitive, and other technologies such as battery hybrid are a more likely alternative than LNG.  
5 *Id. at 906-07*.

6 81.

7 Dr. Pratt challenged the SEIS assumption that LNG from TLNG would be used only for  
8 large ocean-going vessels. *ACT-107, p. 11 (Pratt Pre-filed Testimony)*. He asserted smaller  
9 engines using LNG can have a dramatic effect on the overall Project's GHG emissions because  
10 GHG savings decrease from 26 percent to approximately 10 percent in smaller engines. *Id., p.*  
11 *17*. Erickson and Dr. Pratt argued that alternative fuel technologies are evolving rapidly for  
12 marine use and are in use currently for small- and medium-sized vessels. *Ex. ACT-108, p. 9*  
13 *(Erickson Pre-filed Testimony); Ex. ACT-107, pp. 10-12 (Pratt Pre-filed Testimony)*. Specific to  
14 large ocean-going vessels, however, Erickson and Dr. Pratt did not disagree with PSE witnesses  
15 that MGO and LNG are the only commercially available marine fuels. *Erickson Testimony at*  
16 *99-108; Pratt Testimony at 151*.

17 82.

18 Respondents contend it would be speculative to assume alternative fuel technology for  
19 smaller vessels, and the SEIS did not need to consider these alternative fuels for smaller vessels.  
20 *PSE Post-Hearing Brief, pp. 23-24*. TLNG is actively marketing its unsold capacity only to  
21 large ocean-going vessels, comparable to TOTE vessels. *Littauer Testimony at 422- 423*. Large

1 ocean-going vessels are the most likely customers of TLNG because they are most likely to  
2 convert to LNG. *Ex. PSE-652, p. 57 (Andersen Pre-filed Testimony)*. Andersen estimates that  
3 80-90 percent of all new vessels on order for LNG fuel are ocean-going vessels. *Andersen*  
4 *Testimony at 907*.

5 83.

6 Hogan testified that TLNG's existing infrastructure restricts its ability to provide LNG to  
7 smaller vessels. The loading arm at TLNG is specifically designed to deliver LNG to the unique  
8 high fueling location of TOTE large ocean-going vessels. *Hogan Testimony at 409-10*. The  
9 only way the loading arm could be used to load LNG onto another vessel is if that vessel has its  
10 loading flange located geometrically in a similar location to TOTE vessels. *Id. at 407-08*.

11 84.

12 The Board is not persuaded that the SEIS's static baseline assumption was unreasonable.  
13 The evidence demonstrates that the future of alternative fuels for ocean-going vessels is  
14 uncertain. ¶ 80. The SEIS was based on information currently available, and at the time the  
15 SEIS was finalized there were only two fuels available for large ocean-going vessels: MGO and  
16 LNG. *Id.* Moreover, the TLNG facility is currently designed to fuel large ocean-going vessels,  
17 similar to TOTE vessels, and is being marketed to large ocean-going vessels. ¶¶ 82, 83. Based  
18 on the evidence presented, the Board finds the SEIS made a reasonable assumption that the most  
19 likely users of the TLNG facility will be large ocean-going vessels and concludes the SEIS  
20 assumption of a static baseline is reasonable.



PSE would obtain its gas for the project from the Sumas hub on the border of British Columbia and Washington, with the gas primarily coming from British Columbia.<sup>8</sup> Condition 41 of the Permit requires natural gas to come from British Columbia. *Ex. RA-132, pp. 6-7.* The SEIS relied on an upstream methane loss rate of 0.32 percent and Appellants contend this was a “crucial mistake.” *Appellants’ Closing Brief on SEPA Issues (Issue 2), p. 41.* Erickson asserted this assumption does not account for irregular operation or accidental methane releases, which are a substantial source of emissions from natural gas production. *Ex. ACT-108, p. 21(Erickson Pre-filed Testimony).* Erickson also challenged the LCA because it did not include “top-down” studies in its sensitivity analysis, referred to as the “Alvarez” and “Johnson” studies. *Erickson Testimony at 64-67.*

There are two conventional methods for estimating fugitive methane emissions: bottom-up and top-down inventories. *Ex. PSE-651, p. 12 (Couch Pre-filed Testimony).* A bottom-up inventory involves measuring or estimating fugitive methane emissions rates for various components of equipment and processes. The rates of emissions for each type of component and process are then applied to a count of all of the equipment at a facility or in a region to develop

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method. *Ex. ACT-108, p. 21 (Erickson Pre-filed Testimony)* (referring to: Alvarez, R. A., D. Zavala-Araiza, D. R. Lyon, D. T. Allen, Z. R. Barkley, A. R. Brandt, K. J. Davis, S. C. Herndon, D. J. Jacob, A. Karion, E. A. Kort, B. K. Lamb, T. Lauvaux, J. D. Maasackers, A. J. Marchese, M. Omara, S. W. Pacala, J. Peischl, A. L. Robinson, P. B. Shepson, C. Sweeney, A Townsend Small, S. C. Wofsy, S. P. Hamburg. 2018. *Assessment of methane emissions from the U.S. oil and gas supply chain.* SCIENCE, <https://doi.org/10.1126/science.aar7204>.

<sup>8</sup> Over 99 percent of the gas entering Washington comes from Canada. *Ex. RA-51, p. 88.* Estimates of upstream GHG emissions, including methane leakage rates, from natural gas in British Columbia and Canada are lower than the United States. *Id., p. 170.*

1 estimates of total emissions. *Id.* A top-down inventory attempts to measure methane  
2 concentrations in the atmosphere in a region of interest and then attribute a portion of those  
3 emissions to a facility or activity. *Id.*

4 89.

5 Countering Erickson's argument that the SEIS failed to use top-down studies for methane  
6 emission assumptions, Couch stated the Alvarez study was not directly applicable as the other  
7 rates used in the SEIS because the Alvarez study is a U.S. oil and gas basin average for methane  
8 leakage, and British Columbia is not part of the Alvarez study. *Couch Testimony at 736-737.*  
9 The Alvarez study also provides a lump-sum estimate for all of the oil and gas sector in the U.S.,  
10 not just methane leakage associated with natural gas production. *Id. at 737; Ex. PSE-651, p. 16*  
11 *(Couch Pre-filed Testimony).* Couch also disagreed with Erickson regarding the Johnson study,  
12 which is based on basins in Alberta, and not the British Columbia region. *Couch Testimony at*  
13 *738.* Couch stated that the majority of regulatory entities use bottom-up methodologies to  
14 evaluate emissions. *Id. at 730.* Couch further testified that top-down analyses can be a good  
15 companion to a bottom-up analyses; however, sampling in the atmosphere for a broad region  
16 makes it difficult to apportion the methane concentrations in the air back down to the identifiable  
17 source of emissions on the ground. *Id. at 730.* The SEIS LCA sensitivity analysis included the  
18 Alvarez study (EDF). *Id. at 735.*

19 90.

20 During the public comment period for the SEIS, PSCAA responded to comments on the  
21 LCA methodology regarding methane leakage rates. *Ex. RA-51, p. 210.* PSCAA added other



1 methane leakage rates in the updated SEIS sensitivity analysis. *Van Slyke Testimony at 511, 532,*  
2 *549-550, 554; Unnasch Testimony at 676-677, 707-708, 709-10, 720.*

3 91.

4 In addition to upstream methane leakage discussed above, methane slip is methane  
5 emissions associated with downstream emissions, the end use of LNG in an engine. *Erickson*  
6 *Testimony at 66.* Appellants argue that methane slip estimates in the SEIS were unreasonable  
7 and misleading for several reasons. Appellants argue that PSCAA’s reliance on engine-test data  
8 provided by TOTE (*Ex. ACT-39, Appendix 1*) was unreasonable because it: (1) contained math  
9 errors; (2) erroneously estimated zero slip at 100 percent load; and (3) assumed that TOTE  
10 methane slip values would apply to vessels in the “other marine” category. *Appellants’ Closing*  
11 *Brief on SEPA Issues (Issue 2), pp. 44-45.* Based on its own testing, TOTE showed the emission  
12 rates from their converted engines are in line with 5.3 g/kWh as specified in the draft SEIS. *Ex.*  
13 *ACT- 39, p. 2.* This methane slip rate of 5.3 g/kWh was based on earlier tests of similar LNG  
14 engines as well as the SINTEF report.<sup>9</sup> *Ex. ACT-38, p. 22.*

15 92.

16 Erickson argued the SEIS should have assumed a higher methane slip rate of 6.9 g CH<sub>4</sub>  
17 per kWh based on the SINTEF report and other studies. *Ex. ACT-108, pp. 27-28 (Erickson Pre-*  
18 *filed Testimony).* Erickson also opined that the methane slip rate was based on an incorrect ship  
19  
20

21 \_\_\_\_\_  
<sup>9</sup> As cited in *Erickson Testimony at 68.*

1 load of 100 percent, which affects the methane slip rate. *Id.*, pp. 28-30. Ship load is a measure  
2 of the actual power output of an engine as a percent of its maximum power output. *Id.*, p. 28.

3 93.

4 Dr. Pratt testified that applying TOTE methane slip values to “other marine” was  
5 unreasonable because other vessels could be four stroke engines which have higher GHG  
6 emissions. *Ex. ACT-107, p. 16.* Dr. Pratt had assumed that TOTE vessels were two stroke  
7 engines. *Id.* During the hearing, Dr. Pratt learned that his assumption was incorrect as TOTE  
8 vessels are four stroke engines. *Pratt Testimony at 71.*

9 94.

10 Couch testified that the methane slip assumptions in the SEIS (5.3 g/kWh-6.9 g/kWh) are  
11 actually conservative. He asserted that current literature estimates a methane slip rate of 5  
12 g/kWh. *Couch Testimony at 750.* The literature Couch relied upon included a report cited by  
13 Appellants, the Lindstad 2020 report. *Couch Testimony at 750; Ex. ACT-107, p. 16.*

14 95.

15 Andersen testified that assuming the non-TOTE vessels would have the same methane  
16 slip values as the TOTE vessels is reasonable because most ocean-going vessels have more  
17 efficient engines with lower methane slip than the TOTE vessels. *Andersen Testimony at 913,*  
18 *918.* Andersen testified that the majority of ocean-going LNG fueled vessels are two stroke  
19 engines which have a methane slip range of 0.2-2.5 g/kWh. *Ex. PSE-652, p. 60.* Therefore, the  
20 SEIS assumption was a conservative methane slip assumption for “other marine” vessels.

21 Andersen also opined that Erickson’s direct comparison between load and engine efficiency is

1 misleading because the four stroke TOTE engines can run at different speeds to optimize fuel  
2 consumption and air emissions including methane slip. *Ex. PSE-652, p. 60 (Andersen Pre-filed*  
3 *Testimony).*

4 96.

5 The SEIS sensitivity analysis included a methane slip range of 5.3 to 6.9 g/kWh for  
6 TOTE and non-TOTE vessels. *Ex. RA-51, p. 136 (Figure 5.5).* This resulted in a range of GHG  
7 emissions from approximately negative 30 to just under positive 30 GHG emissions (k tonne  
8 CO<sub>2</sub>e/year). *Id.*

9 97.

10 The SEIS methane leakage rate was based on the natural gas being sourced from Canada,  
11 which is Condition 41 of the Permit. ¶¶ 22, 47. The Final SEIS added additional methane  
12 leakage and methane slip rates to expand the range of emissions that could be caused if different  
13 rates were considered. *Ex. RA-51, pp. 46, 136.*

14 98.

15 The Board concludes under the rule of reason standard the SEIS provided decision  
16 makers with a reasonable range of methane emission data. Although Appellants contend the  
17 methane emissions data and assumptions were not provided, the sensitivity analysis included the  
18 Alvarez (EDF) study and the SEIS included an explanation about why PSCAA relied on the  
19 regional data and bottom-up methodology for methane leakage emissions. *Ex. RA-51, pp. 136-*  
20 *137, 210, 220.* The methane leakage values from the Alvarez study are identified as EDF in the  
21 sensitivity analysis of natural gas (NG) Upstream. *Id., p. 136.* The methane slip range in the

1 sensitivity analysis is 5.3 g/kWh-6.9 g/kWh. *Id.*, p. 136. Thus, the ranges Appellants are  
2 suggesting should have been used are indeed contained in the sensitivity analysis.

3 99.

4 PSCAA considered detailed methane emissions data, made reasonable assumptions, and  
5 considered the information in the SEIS. The Board concludes that under the rule of reason,  
6 methane leakage and slip rates were sufficiently disclosed, discussed, and substantiated by  
7 supportive opinions and data.

8 100.

9 Appellants also challenge PSCAA's expertise in understanding the methane emissions  
10 data and assumptions. PSCAA officials testified regarding their background and experience with  
11 SEPA compliance and emissions calculations, and their communications with various  
12 stakeholders during the SEIS process. ¶¶ 43, 55, 90. PSCAA provided a detailed report of  
13 public comments received during the process. ¶ 90. The fact that they hired an LCA consultant  
14 to conduct the LCA does not mean PSCAA was ill-informed about methane emissions and  
15 methodologies used to calculate them. The Board finds and concludes the methane slip and  
16 leakage assumptions in the LCA were reasonable and gives substantial weight to PSCAA's  
17 selection of these assumptions. *See* RCW 43.21C.090 and WAC 197-11-920(1)(d). The Board  
18 finds and concludes that Couch and Andersen's testimony regarding conservative estimates in  
19 the LCA for methane leakage and slip is credible and persuasive. They provided a reasonable  
20 basis for their conclusions. ¶¶ 89, 94, 95. Moreover, the sensitivity analysis included a range of  
21 methane leakage and slip values as well as the range of GHG emissions. ¶¶ 90, 96, 97.



1 atmosphere. *Ex. RA-51, p. 215.* The AR5 includes a higher GWP for methane and a lower GWP  
2 for N<sub>2</sub>O than AR4. *Id.*

3 104.

4 The updated LCA report in the Final SEIS included an updated sensitivity analysis  
5 considering AR5 GWP values. *Unnasch Testimony at 662; Exs. RA-51, p. 215, RA-52 at*  
6 “*Factors*” *Tab.* The SEIS states:

7 The updated LCA report included an updated sensitivity analysis that considered  
8 AR5 GWP values. Refer to Section 1.5.2 (and Appendix A.4) of the LCA report.  
9 The results of that sensitivity analysis are shown in Section 5 (see Figure 5.5) of  
the LCA report. That analysis indicates that the use of the AR5 GWP values, by  
itself, would not change the conclusions identified in the DSEIS.

10 *Ex. RA-51, p. 215.* In the sensitivity analysis, the AR5 GWP factor increased the net GHG  
11 emissions rate to positive 20 (k tonne CO<sub>2</sub>e/year), compared with negative 30 (k tonne  
12 CO<sub>2</sub>e/year) for the AR4 GWP factor. *Id., p. 136.*

13 105.

14 The LCA used a 100-year time horizon to assess the GWP of the Project. *Ex. RA-51, p.*  
15 *161.* PSCAA received public comments challenging the use of a 100-year time horizon,  
16 suggesting that a 20-year time horizon should have been used to account for methane emissions.  
17 *Id., p. 215.* The Final SEIS addressed these comments:

18 Evaluation of the GHG emissions using the 100-year GWP protocol is consistent  
19 with IPCC AR4 (IPCC 2007) and other policy directions and initiatives in  
Washington State as prescribed in WAC 173-441-040. It is also consistent with the  
20 long-term goals of the Paris Agreement. The comments regarding a 100-year  
analysis methodology as contrasted to the 20-year analysis relates to the differences  
21 in GWP for methane on a longer versus a shorter lifetime. The analysis has not  
been revised to adjust the results of the life-cycle analysis on a 20-year basis

1 because most of the GHG emissions and warming effects from the emissions  
2 considered in this analysis are CO2, not CH4. A 20-year GWP based analysis would  
3 omit the warming effect of CO2 after 20 years and the CO2 has much longer  
cumulative effects. CO2 has a persistent effect in the atmosphere for over 100  
years.

4 *Id.*

5 106.

6 PSCAA explained its decision to use the 100-year time horizon for the emissions lifespan  
7 over the 20-year time horizon in the LCA report:

8 The methodology selected by PSCAA and the project team to follow a protocol  
9 based on AR4 values for a 100-year life remains a valid, reasonable approach. The  
10 GHG emission reporting requirements for the federal government (40 Code of  
11 Federal Regulations 98 - Mandatory Greenhouse Gas Reporting) and Washington  
12 State (see WAC 173-441 - Reporting of Emissions of Greenhouse Gases) follow  
these protocols. It is both appropriate and reasonable to evaluate the GHG  
emissions from this proposal in a life-cycle analysis on the same basis as those  
inventory values to support comparisons and understanding of the emissions as was  
done in the SEIS.

13 *Ex. RA-51, pp. 215-16.*

14 107.

15 Erickson argued that using AR5 values and the GWP 20-year time horizon would more  
16 accurately count methane emissions, which has a GWP of 36 over a 100-year time horizon but a  
17 value of 87 over a 20-year time horizon. *Ex. ACT-108, pp. 31-32 (Erickson Pre-filed*  
18 *Testimony)*. Under AR4, methane has a 100-year GWP of 25; whereas under AR5 methane has a  
19 100-year GWP of 36. *Id., pp. 31-32.* Erickson testified that understanding shorter time scales is  
20 important to show short-terms effects of methane and the SEIS should have included both time  
21 horizons. *Erickson Testimony at 74-75.*

1 108.

2 Unnasch testified that the GWP calculation is used for the impact assessment of an LCA.  
3 *Unnasch Testimony at 645.* Each of the GHG emissions are multiplied by their GWP to assess  
4 their impact. *Id. at 646.* In drafting the LCA, Unnasch determined that a 20-year time horizon  
5 for GWP would not present a reasonable or reliable calculation of GHGs and did not include it in  
6 the LCA. *Id. at 675; Ex. RA-51, App. B, pp. 92-93.* A 20-year GWP is primarily used when  
7 focusing on short-term climate impacts. *Unnasch Testimony at 675, 745; Ex. PSE-651, p. 33*  
8 *(Couch Pre-filed Testimony).* The 20-year GWP time horizon effectively cuts off the warming  
9 effect of CO<sub>2</sub> and N<sub>2</sub>O after 20 years while capturing the entire warming effect of methane,  
10 which has a lifetime of about 20 years or less. *Ex. RA-51, p. 76.* Unnasch testified that for this  
11 LCA the 100-year AR4 GWP was the standard GWP to use. *Unnasch Testimony at 672-73.*

12 109.

13 Couch testified it was reasonable for PSCAA to analyze the project's impacts under 100-  
14 year GWP time horizon given the composition of GHGs in the Project. *Couch Testimony at 746.*  
15 AR4 is most predominantly used by agencies such as the U.S. EPA, and Washington and  
16 California statewide inventories. *Id. at 747.* In addition, Couch noted that the 100-year GWP  
17 framework is consistent with the State of Washington's GHG inventory which is necessary to  
18 make comparisons to other emissions. *Id. at 746.*

19 110.

20 Couch also testified that the majority of GHG emissions from the project are attributable  
21 to carbon dioxide (CO<sub>2</sub>). *Ex. PSE-651, p. 33 (Couch Pre-filed testimony).* Carbon dioxide is a



1 long-term climate pollutant. *Couch Testimony at 674-755, 746.* A 20-year GWP based analysis  
2 would omit the warming effect of carbon dioxide after 20 years and carbon dioxide has a much  
3 longer cumulative effect. *Ex. RA-51, p. 215.*

4 111.

5 The Board finds and concludes Unnasch and Couch’s testimony regarding the use of the  
6 100-year GWP time horizon was credible. Both Unnasch and Couch have conducted numerous  
7 LCAs and provided a reasonable basis for using the 100-year time horizon. Unnasch and Couch  
8 also provided a credible and reasonable explanation for relying on the AR4 GHG factors for this  
9 LCA. ¶¶ 105, 106, 108, 109. The Board also finds Erickson’s testimony credible regarding use  
10 of a 20-year time horizon to calculate methane emissions and gives his testimony the same  
11 weight as Unnasch and Couch.

12 112.

13 Ultimately, the Board concludes that PSCAA’s selection of the 100-year time horizon to  
14 assess the GWP was reasonable. The SEIS included an explanation of why the 100-year AR4  
15 GWP should be used. ¶¶ 105, 106, 108. After receiving comments, Unnasch added AR5 in the  
16 sensitivity analysis in the final LCA. ¶¶ 103, 104. The SEIS addressed the comments on the use  
17 of a 100-year GWP and concluded use of the 100-year GWP best captured the effects of CO<sub>2</sub>, the  
18 most prevalent GHG for this project. ¶¶ 105, 106, 108.

19 113.

20 PSCAA relied on AR4 values for a 100-year emissions lifespan to be consistent with  
21 GHG emission reporting requirements for the federal government (40 C.F.R 98 – Mandatory

1 Greenhouse Gas Reporting) and Washington State (WAC 173-441 – Reporting of Emissions of  
2 Greenhouse Gases). ¶¶ 105, 106. PSCAA determined it was reasonable to evaluate the GHG  
3 emissions on the same basis as those inventory values to support comparisons and understanding  
4 of the emissions. ¶¶ 105, 106.

5 114.

6 The SEIS disclosed, discussed, and substantiated the use of AR4 and the 100-year GWP  
7 time horizon for methane emissions. PSCAA included AR5 in the sensitivity analysis but did  
8 not include the 20-year time horizon methane emissions data. ¶¶104, 105, 108. Although  
9 Erickson’s testimony was credible regarding the updated methane emissions data in AR5 and he  
10 explained why he thought a 20-year time horizon should have been included in the SEIS, the  
11 Board defers to PSCAA as the agency with expertise to resolve technical differences on how to  
12 quantify methane emissions for the Project. *Port of Seattle*, 151 Wn.2d at 593.

13 **5. Nitrous Oxide Emissions (Issue 2e)**

14 115.

15 Appellants argue the SEIS fails to properly address the facility’s emissions of N<sub>2</sub>O, a  
16 potent GHG. Appellants argue that the N<sub>2</sub>O emissions are underestimated in the SEIS because  
17 the SEIS fails to account for nitrogen gas used to purge the lines. Appellants’ expert, Dr. Sahu,  
18 opined that TLNG flared waste gases will contain more nitrogen than typical gaseous waste  
19 because nitrogen will be used to clear lines after fueling of ships and trucks. *Ex. APTI-587, p. 78*  
20 *(Sahu Pre-filed Testimony)*. As a result, the nitrous oxide emissions from purging gas lines were  
21

1 underestimated. *Sahu Testimony at 1730; Ex. APTI-587, p. 78 (Sahu Pre-filed Testimony)*. Dr.  
2 Sahu performed no quantitative analysis of the nitrous oxide emissions. *Sahu Testimony at 1730.*

3 116.

4 In preparing the LCA, Unnasch used standard nitrous oxide factors based on EPA's AP-  
5 42<sup>11</sup> combustion emission factors, which are also organized in the GHGenius and GREET  
6 models used in other LCAs in Washington State.<sup>12</sup> *Unnasch Testimony at 646-650, 676; Van*  
7 *Slyke Testimony at 5376*. The LCA used standard N<sub>2</sub>O emissions factors that are available for  
8 many equipment types, such as diesel engines, gas turbines, and flares. *Unnasch Testimony at*  
9 *666*.

10 117.

11 Dr. Libicki testified that the nitrogen used as purge gas "would not discernibly change  
12 N<sub>2</sub>O emissions from the flare." *Ex. PSE-374, p. 162 (Libicki Pre-filed Testimony)*. Dr. Libicki  
13 calculated that the purge gas would operate roughly 692 hours per year or less than eight percent  
14 of the year and would impact the nitrogen percentage minimally. *Ex. PSE-374, p. 163 (Libicki*  
15 *Pre-filed Testimony)*. Dr. Smith opined that if any additional nitrous oxide is formed due to  
16 excess nitrogen it would be very small and quickly destroyed in the combustion zone of the flare.  
17 *Ex. PSE-649, pp. 67-68 (Smith Pre-filed Testimony)*.

18  
19 <sup>11</sup> AP-42 contains EPA's compilation of emission factors for carbon monoxide, nitrogen oxides, and VOCs that are  
20 used by industry based on emissions test data from various industrial facilities and sources. They are continually  
21 updated and undergo public review and comment. *Exs. PSE-374, pp. 28-29, RA-71; Van Slyke Testimony at 1909.*

<sup>12</sup> The GHGenius LCA model is based on the UC Davis Life Cycle Emission Model (LEM) that was developed for  
Natural Resources Canada. *Ex. RA-51, p. 64*. Both models are used for assessment of GHG emissions for low  
carbon fuel regulations in the U.S. and Canada. The SEIS used the GHGenius and GREET models to calculate  
upstream emissions on a life cycle basis. *Ex. RA-51, p. 67*.

1 118.

2 Van Slyke testified that burning of gaseous fuels does not have the fuel-bound nitrogen  
3 components that are associated with normal N<sub>2</sub>O emissions. *Van Slyke Testimony at 537-38.*  
4 The N<sub>2</sub>O emissions that were used in the LCA rely on emission factors that are published as part  
5 of established and reviewed emission factor documents. *Id. at 537.*

6 119.

7 Unnasch also disagreed with Dr. Sahu's conclusion regarding N<sub>2</sub>O emissions, which  
8 necessarily implies that atmospheric nitrogen would increase N<sub>2</sub>O emissions. *Unnasch*  
9 *Testimony at 666.* Unnasch explained that according to relevant scientific literature, only very  
10 small amounts of N<sub>2</sub>O are produced from combustion processes and atmospheric nitrogen is not  
11 a precursor for producing additional N<sub>2</sub>O. *Id.*

12 120.

13 Couch testified that the LCA used standard N<sub>2</sub>O emission factors organized in the  
14 GHGenius and GREET models, which is standard for fuel life cycle analysis considered by state  
15 agencies such as Ecology. *Couch Testimony at 646-650, 676.*

16 121.

17 The Board finds and concludes that testimony from Unnasch, Dr. Libicki, Dr. Smith, Van  
18 Slyke, and Couch was credible and persuasive regarding N<sub>2</sub>O emissions. The Board finds Dr.  
19 Sahu's testimony less credible as he performed no quantitative analysis of the nitrous oxide  
20 emissions. ¶ 115.

1 122.

2 Respondents' experts provided calculations demonstrating that N<sub>2</sub>O emissions in the  
3 purge gas were minimal. ¶¶ 116, 117. Respondents' experts also used standard N<sub>2</sub>O emission  
4 factors used in GHGenius and GREET models which have been used in other LCAs in  
5 Washington State. ¶¶ 116, 118, 120.

6 123.

7 The SEIS disclosed, discussed, and substantiated by data TLNG's N<sub>2</sub>O emissions.  
8 Respondents' experts additionally substantiated that the forecasts were reasonable, and those  
9 calculations were not able to be refuted by Appellants' expert. Under the rule of reason, the  
10 Board concludes the SEIS properly addressed the N<sub>2</sub>O emissions from the facility.

11 **6. No Significant Adverse Impact (Issue 2c)**

12 124.

13 Appellants assert under Issue 2c that the SEIS fails to acknowledge that maintenance of  
14 high-GHG emissions status quo for the lifetime of the project is a "significant" impact under  
15 SEPA. Appellants argue PSCAA's determination of insignificance for a fossil fuel project that  
16 maintains status quo GHG emissions is contrary to science and conflicts with applicable law and  
17 policy, and that PSCAA failed to consider the cumulative harm that will result from TLNG's  
18 contribution to existing adverse climate conditions. *Appellants' Closing Brief on SEPA Issues*  
19 *(Issue 2), pp. 11-14.*

1 125.

2 Appellants argue PSCAA failed to integrate local, state and federal policies on GHG  
3 emissions in determining there were no significant adverse impacts. As one example, Appellants  
4 cite to Washington’s goal to reduce GHG emissions to 95 percent below 1990 levels and achieve  
5 net zero emissions by 2050, RCW 70A.45.020. *Appellants’ Closing Brief on SEPA Issues (Issue*  
6 *2), p. 13.* As another example, Appellants assert PSCAA has failed to abide by its own targets,  
7 calling for an 80 percent reduction in GHGs by 2050. *Id., p. 14 (citing Ex. ACT-57).*

8 126.

9 In making a significance determination, agencies must consider whether a proposed  
10 action “conflict[s] with local, state or federal laws” for the protection of the environment. WAC  
11 197-11-330(3)(e)(iii). Pursuant to WAC 197-11-030(2)(a) the agency must “[i]nterpret and  
12 administer the policies, regulations, and laws of the state of Washington in accordance with the  
13 policies set forth in SEPA and these rules.”

14 127.

15 The SEIS identified local, state and federal laws with jurisdiction over GHG emissions.  
16 Section 4 of the SEIS addresses the regulatory framework for GHG emissions, and the specific  
17 regulations that apply to the TLNG project. *Ex. RA-51, pp. 36-39.* This section includes  
18 discussion of Chapter 70.235 RCW (recodified as Chapter 70A.45.010), which establishes GHG  
19 emissions reduction limits for state agencies and GHG reduction targets, and PSCAA SEPA  
20 checklist which requires identification and consideration of GHGs. *Ex. RA-51, p. 37.* Three  
21 agencies have jurisdiction over GHG emissions within the geographic areas of the Port of

1 Tacoma, City of Tacoma, and Pierce County: the U.S. EPA, Ecology, and PSCAA. PSCAA is  
2 the primary regulatory agency responsible for air quality permitting and compliance within King,  
3 Kitsap, Pierce, and Snohomish counties. *Id.*, p. 36.

4 128.

5 Section 4.2 of the SEIS discloses and discusses the environment affected by climate  
6 change. *Ex. RA-51*, p. 40. The State of Washington established goals to minimize climate  
7 change impacts and reduce GHG emissions. *Id.* The SEIS states that the potential effects of  
8 climate change and GHG emissions are global and cumulative impacts. *Id.*

9 129.

10 Appellants argue that the cumulative harm must be considered under SEPA and that the  
11 context and intensity of TLNG’s GHG emissions support a finding of significance. *Appellants’*  
12 *Closing Brief on SEPA Issues (Issue 2)*, p. 15. The SEIS puts the TLNG projected emissions of  
13 54,522 and 107,922 metric tons CO<sub>2</sub> per year in the context of global impacts, concluding the  
14 SEIS analysis predicts TLNG would result in a net GHG reduction contingent on the source of  
15 the natural gas. *Ex. RA-51*, p. 48. Section 4.6 discloses and discusses cumulative impacts and  
16 states “while individual sources of GHG emissions are not large enough to have an appreciable  
17 effect on climate change, the global accumulation of GHG emissions is resulting in global and  
18 local impacts on the climate.” *Id.*, p. 47.

19 130.

20 The public comment section of the SEIS addressed concerns about cumulative effects  
21 from the proposed facility with other existing industry at the Port of Tacoma. PSCAA responded

1 that the identified scope for the SEIS was for a life-cycle analysis of the GHG emissions  
2 associated with the proposed TLNG facility only. *Ex. RA-51, p. 214*. Considering emissions  
3 from other facilities are not consistent with the life-cycle analysis methodologies. *Id.*

4 131.

5 As stated, the Board reviews the adequacy of the SEIS under the rule of reason. Under  
6 the rule of reason standard, “the EIS must present decision-makers with a ‘reasonably thorough  
7 discussion of the significant aspects of the probable environmental consequences’ of the  
8 agency’s decision.” *Klickitat County Citizens*, 122 Wn.2d at 633. The rule of reason standard is  
9 met here as the SEIS considered the contribution of TLNG’s emissions to existing adverse  
10 climate conditions. ¶¶ 127, 128, 129.

11 132.

12 Appellants cite to several cases to support their argument that an agency must consider  
13 the cumulative effects of a project. *See Appellants’ Closing Brief on SEPA Issues (Issue 2), pp.*  
14 *15-16*. However, all of the cases cited by Appellants involve an agency’s threshold  
15 determination of whether to prepare an EIS, which is not at issue here. *See Ctr. for Biological*  
16 *Diversity v. Nat’l Highway Traffic Safety Admin.*, 538 F.3d 1172, 1220 (9th Cir. 2008) (holding  
17 an environmental assessment’s finding of insignificance under NEPA for federal fuel economy  
18 standards was deficient and contrary to the record in its attempt to justify the refusal to prepare  
19 an EIS); *City of Fed. Way v. Town & Country Real Estate, LLC*, 161 Wn. App. 17, 54, 252 P.3d  
20 382, 401 (2011) (Under the “clearly erroneous” standard for a threshold determination of non-  
21 significance, the court found the cumulative impacts on traffic constitutes a significant adverse



1 impact under SEPA, and mitigation payments were lawful). Both of these cases were examining  
2 whether an agency’s initial threshold finding of insignificance was clearly erroneous, which  
3 triggers whether or not an EIS must be prepared. See RCW 43.21C.031. Such cases are not  
4 applicable to the TLNG SEIS where the SEPA process is well beyond the initial threshold  
5 determination.

6 133.

7 Appellants also cite *Columbia Riverkeeper, et al. v. Port of Kalama et al.*, SHB 17-010c  
8 (Sept. 15, 2017),<sup>13</sup> for the proposition that an inaccurate significance finding in an EIS robs an  
9 agency of its authority to mitigate or deny a project. This case is distinguishable. In *Port of*  
10 *Kalama*, Riverkeeper challenged the adequacy of the Final EIS, asserting that it erroneously  
11 concluded that the Project’s GHG emissions were not significant. Riverkeeper, in part, claimed  
12 that the Final EIS merely relied on Ecology’s internal document, “Guidance for Ecology:  
13 Including Greenhouse Gas Emissions in SEPA Reviews” (Guidance) to conclude the Project  
14 would not have significant adverse impacts without any analysis of environmental impacts. *Id.*,  
15 p. 19. The Shorelines Hearings Board found the Final EIS failed to provide adequate analysis  
16 because the conclusion was based “almost entirely on Ecology’s Guidance.” *Id.*, p. 23. Unlike  
17 in *Port of Kalama*, PSCAA has done an analysis of environmental impacts in the LCA for  
18 TLNG.

19  
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21 

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<sup>13</sup> Appellants also cite a 2018 case they call *Port of Kalama v. Shorelines Hearings Board* with a different citation. The Board assumes the Appellants were referring to this case. See *Appellants Closing Brief on SEPA Issues (Issue 2)*, pp. 5, 12.

1 134.

2 By letter, after the hearing and closing briefs were submitted, Appellants submitted  
3 *Washington State Dairy Federation v. Dept' of Ecology*, 18 Wn. App. 2d 259, 490 P.3d 290  
4 (June 29, 2021), for the Board's consideration. In *Dairy Federation*, environmental groups  
5 sought judicial review of the PCHB's decision to largely approve Ecology's issuance of waste  
6 discharge permits for concentrated animal feeding operations, claiming in part that SEPA  
7 required Ecology to consider the effects of climate change before issuing the permits. The  
8 PCHB had dismissed appellants' argument regarding climate change on summary judgment.  
9 The Court of Appeals reversed, holding that SEPA required Ecology to consider climate change  
10 "to some extent" when issuing permits. *Dairy Federation.*, 18 Wn. App. at 309. The *Dairy*  
11 *Federation* case is distinguished from the case at hand. Rather than an industry-wide permit, the  
12 TLNG Permit is for a single, specific facility. Also, an EIS was never issued or reviewed in  
13 *Dairy Federation*. The issue here is the adequacy of the SEIS conducted to assess the lifecycle  
14 GHG emissions for TLNG.

15 135.

16 The Board is mindful of climate change as well as the policy basis for SEPA. In  
17 reviewing the adequacy of an EIS, the Board is limited to reviewing whether the EIS presented  
18 decision-makers with a "reasonably thorough discussion of the significant aspects of the  
19 probable environmental consequences" of the agency's decision. SEPA only requires the agency  
20 consider whether the project is in conflict with applicable laws, regulations, and policies, and  
21 PSCAA found it was not. ¶ 130. The decision before PSCAA was not to adopt a policy or a

1 regulation addressing GHGs in relation to an entire industry. In fact, PSCAA’s jurisdiction is  
2 geographically limited. ¶ 127.

3 136.

4 Appellants also argue the baseline for the No Action Alternative should follow the  
5 guidance in Washington Department of Ecology’s proposed Greenhouse Gas Assessment Rule.<sup>14</sup>  
6 *Ex. ACT-22, WSDOE Draft GAP Rule Conceptual Framework for Informal Review, Wash. State*  
7 *Dep’t of Ecology (March 2021)*. The proposal calls for defining the no action scenario as  
8 assessing future conditions under “state and federal GHG reduction limits and international goals  
9 approved by the U.S. Government.” *Ex. ACT-22, p. 18*.

10 137.

11 The Board concludes that PSCAA could not have followed the guidance in Ecology’s  
12 draft GHG Assessment rule issued in March 2021 because it did not exist in 2018 and 2019  
13 when the SEIS was in process. The SEIS was prompted by Ecology withdrawing its previous  
14 GHG guidance. ¶ 9. The Board concludes the SEIS adequately addresses applicable laws,  
15 regulations, and policies, in compliance with SEPA.

16  
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18  
19  
20 <sup>14</sup> In March of 2021, one month prior to the hearing in this case and long after the SEIS and issuance of the Permit,  
21 Ecology released a proposed Greenhouse Gas Assessment Rule (Draft GAP Rule). *Ex. ACT-22 (WSDOE Draft*  
*GAP Rule Conceptual Framework for Informal Review, Wash. State Dep’t of Ecology (March 2021)*. The purpose  
of the GAP Rule is to “enable consistent, predictable, and transparent consideration of GHG emissions related to  
industrial and fossil fuel projects. *Ex. ACT-22, p. 7*. The final rule is planned to be adopted later in 2021. *Id., p. 6*.



1 141.

2 TLNG will process and store 250,000 gpd of LNG. *Ex. RA-21, p. 15.* The gas is  
3 processed to remove heavy hydrocarbons (“heavies”). These heavy hydrocarbons include: (1)  
4 mixed refrigerant liquids including propane and isopentane, and (2) natural gas liquids removed  
5 from the raw gas stream which contain a mixture of different heavy hydrocarbons (including  
6 propane, i-butane, n-butane, i-pentane, n-pentane, n-hexane, n-heptane, n-octane). *Ex. ACT-109,*  
7 *pp. 4-5.* Removed heavies would be stored as natural gas liquids in the heavies storage vessel  
8 (V-802). *Hogan Testimony at 392-93.* Stored natural gas liquids would be trucked offsite.  
9 *Stobart Testimony at 1018-19.*

10 142.

11 TLNG will process natural gas through a pretreatment and liquification process, after  
12 which the LNG will be stored until used either for transportation fuel or for peak shaving  
13 purposes. *Van Slyke Testimony at 451-52; Ex. RA-15.* Upon obtaining custody of TLNG’s feed  
14 gas, the gas will be odorized and passed through a metering station. After which the pressure of  
15 the gas will be boosted to a level optimum for plant operations. Once at adequate pressure, the  
16 gas runs through an amine wet pre-treatment system where certain compounds are removed, next  
17 the gas goes through the liquefaction process. The LNG is then stored in a tank for later use as  
18 transportation fuel or for re-gasification to serve peak shaving needs. *Stobart Testimony at 1002-*  
19 *1012.* An enclosed ground flare will be used for the destruction of generated waste gases, and a  
20 vaporizer will be used to re-gasify the LNG. *Id. at 1014-15.*

1 143.

2 PSE has identified potential consumers of its transportation fuel. Primarily, the fuel is  
3 intended for TOTE vessels. *Ex. RA-38, p. 30.* TOTE vessels may be characterized as short sea  
4 vessels and fall within the classification of ocean-going vessels. *Couch Testimony at 798-99.*  
5 PSE hopes to serve other marine vessels in addition to TOTE as LNG engine technology  
6 becomes more prevalent in marine vessels. Other non-marine LNG customers may include those  
7 in the long-haul trucking industry. *Ex. RA-38, p. 8.*

8 144.

9 The natural gas processed by TLNG originates from North Montney Region of the  
10 Western Canadian Sedimentary Basin. From this region, natural gas is piped into the West Coast  
11 Energy pipeline where it travels south until it reaches Sumas, Washington, at which point the gas  
12 is transferred to the Williams Northwest Pipeline (“Northwest Pipeline”). *Donahue Testimony at*  
13 *1791; Ex. PSE-24.* Flow in the pipeline is typically north to south but the pipeline is  
14 bidirectional. *Id. at 1797, 1811.* The gas can only flow in one direction at a time. *Id. at 1797.*

15 145.

16 Upon arrival at the Frederickson Gate Station, the Northwest pipeline gas is metered and  
17 measured for transfer to PSE where it is then pressurized and odorized. *Ex. RA-38, p. 126.* Gate  
18 stations, or custody transfer points, are locations where custody of gas within the Northwest  
19 Pipeline changes to a utility provider such as PSE. *Donahue Testimony at 1799.*

1 146.

2 The composition of the pipeline gas is dependent on factors present during extraction and  
3 transmittal and can change gradually over time. *Donahue Testimony at 1815-6*. From  
4 approximately 2013 through 2016 the British thermal units (BTU) content of the feed gas  
5 received at Sumas increased primarily due to increased ethane. *Id.* at 1821. Due to the increase  
6 in heavy hydrocarbons in feed gas composition, in 2017, CB&I made some design changes to  
7 TLNG. *Stobart Testimony at 994; Ex. PSE-369*.

8 147.

9 The City of Tacoma completed SEPA review of the proposal in the FEIS that evaluated  
10 the preliminary design and concluded there would be no significant adverse safety or risk  
11 impacts. *Ex. APTI-472, pp. 225-226*. The City anticipated eventual subsequent design changes.  
12 *Id.* Other regulatory agencies, such as the UTC, apply federal, state and local regulations to  
13 address safety and risk through the subsequent design, construction, and operation of the facility.  
14 *Id.*, p. 225. The UTC, as a Pipeline Hazardous Materials Safety Administration (PHMSA)  
15 delegate, is the responsible agency for reviewing compliance when siting an LNG facility.  
16 *Gavelli Testimony at 1054*. In Section 3.5 of the FEIS, the Washington UTC Pipeline Safety  
17 Office provides oversight of property design and construction of the proposed project as well as  
18 ongoing oversight of project operations. *Van Slyke Testimony at 479-480*.

19 148.

20 The FEIS concluded that the preliminary design of TLNG was compliant with all safety  
21 regulations, but that the design should be reviewed when complete to ensure continued

1 compliance. *Ex. RA-38, p. 31.* The PHMSA is the agency responsible for regulating the siting,  
2 design, construction, operation, and maintenance of TLNG. *Van Slyke Testimony at 480; Ex.*  
3 *RA-38, p. 116.* Additionally, the Washington UTC Pipeline Safety Office has been granted  
4 authority by PHMSA to provide oversight of the facility’s design, construction, and operation.  
5 *Ex. RA-38, p. 130.*

6 149.

7 The siting requirements of 49 C.F.R 193, to which TLNG is subject, cover the methods  
8 and means of managing risks from spills, or design spills, at the facility. *Ex. ACT-81, p. 4.* The  
9 purpose of the Siting Study is to determine if accidents within the LNG facility can have an  
10 impact on the public or public property outside the boundaries. *Gavelli Testimony at 1050.* The  
11 associated Siting Study is where the safety and hazard risks from design spills are first  
12 considered. In 2015, CB&I performed a Siting Study of TLNG as part of the FEIS process.  
13 *Stobart Testimony at 976.*

14 150.

15 Stobart, who serves as Project Engineering Manager for TLNG, has worked as an  
16 engineer, including design, construction, and commissioning, on approximately 25 LNG projects  
17 over his career. *Stobart Testimony at 968.* His testimony is based on his direct knowledge with  
18 the Siting Studies and design changes to the TLNG facility.



1 151.

2 In 2018, CB&I prepared two supplemental Siting Studies to evaluate safety concerns  
3 raised by the Tribe. *Stobart Testimony at 978-979; Exs. ACT-86, ACT-87.* CB&I completed the  
4 risk assessment of all the changes Appellants identified. *Stobart Testimony at 980.*

5 152.

6 Appellants assert that the heavy liquid hydrocarbons in the raw natural gas feedstock  
7 increased from the original design in 2015 to the July 2017 revised design. *Ex. ACT-109, p.5*  
8 *(Spicer Pre-filed Testimony).* Dr. Spicer opined that refrigerant liquids and natural gas liquids  
9 contain highly flammable chemicals, and a leak of these hazardous chemicals could pose a fire or  
10 vapor cloud explosion hazard.<sup>15</sup> Also, processing feed gas with a higher content of heavy  
11 hydrocarbons would require more frequent removal of natural gas liquids by truck. Second, Dr.  
12 Spicer opined the relocation of equipment in the liquefaction area near Vessel V-204 occurred in  
13 a manner that could affect areas of congestion and confinement where a leak of mixed  
14 refrigerants from the vessel could create the risk of an explosion.<sup>16</sup> *Id., p. 7.*

15 153.

16 Dr. Spicer further opined that the vapor dispersion calculations in the 2015 Siting Study  
17 were no longer applicable. *Ex. ACT-109, p. 12 (Spicer Pre-filed Testimony).* Specifically, the  
18

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19 <sup>15</sup> Dr. Spicer cited The National Fire Protection Association (NFPA) 59A for evaluating the consequences of a fire  
20 or vapor cloud explosion, which requires modeling radiant heat flux, vapor dispersion, and overpressure.  
Overpressure is the pressure caused by a flame front over and above normal atmospheric pressure caused by a  
21 deflagration or detonation. *ACT-109, p. 5 (Spicer Pre-filed Testimony).*

<sup>16</sup> An area of congestion (obstacles or blockage in a moving gas that can generate turbulence and enhance mixing)  
and confinement (solid surfaces that prohibit gas movement in one or more directions) creates the circumstances  
found to be important in characterizing the overpressure damage due to an explosion.

1 flow rates and capacity of lines carrying hazardous materials changed, if not increased, creating  
2 fire or explosion hazards. Dr. Spicer noted Line 8008, which carries LNG from the liquefaction  
3 area to the heavies storage area where it is then trucked offsite, was identified in 2015 as  
4 exceeding the probability of failure threshold. With the 2017 design changes, Line 8008 may  
5 have an increased flow rate, and thus a larger vapor dispersion extent. Furthermore, the addition  
6 of the “New Heavies Line” and the increased storage capacity of V-801 present unexamined  
7 hazards. *Id.*, p. 13. Specifically, Dr. Spicer opined that the “New Heavies Line” carries medium  
8 reactivity flammable liquid and thus poses new fire or explosion hazards. Moreover, because the  
9 line is above ground and runs the length of the facility, it has a higher probability of failure.  
10 *Spicer Testimony at 200.* Additionally, Dr. Spicer testified that the increase to the storage  
11 capacity of V-801, which carries heavy hydrocarbons, should have been evaluated for  
12 unexamined hazards. *Ex. ACT-109, p. 13 (Spicer Pre-filed Testimony).*

13 154.

14 Appellants also assert PSE made a substantial design change after publication of the FEIS  
15 by relocating equipment in the liquefaction area near vessel V-204,<sup>17</sup> which contains highly  
16 flammable hydrocarbons, and if spilled could explode in a confined environment. *ACT-109, pp.*  
17 *7-8 (Spicer Pre-filed Testimony).* In the original site design, the liquefaction heat exchanger, a  
18 piece of equipment measuring 15 by 25 feet, was located (plant) south of both V-204 and the  
19 MRL Condenser. But in the final design, this orientation was flipped such that the liquefaction  
20

21 \_\_\_\_\_  
<sup>17</sup> V-204 – MRL Condensate Vessel. *Stobart Testimony at 983.*

1 heat exchanger is (plant) north of V-204 and the MRL condenser. Additionally, redesigning the  
2 facility to accommodate the heavier feed gas would increase flow into and out of vessel V-204.  
3 With these changes to V-204's location and incoming/outgoing flow rates, Dr. Spicer testified  
4 that the areas of congestion in confinement identified in 2015 may have changed. *Id.*, p. 10.  
5 Furthermore, Dr. Spicer testified that the catastrophic failure of V-204 could result in a boiling  
6 liquid expanding vapor explosion (BLEVE), and that this consequence was never evaluated in  
7 the Final EIS. *Spicer Testimony at 218-19; Ex. ACT-109, p. 10 (Spicer Pre-filed Testimony).*

8 155.

9 The original site design required truck trips for removal of heavy hydrocarbons  
10 approximately every 14 days, whereas the design changes require truck trips approximately  
11 every five days. *Stobart Testimony at 1013*. Stobart testified that based on the analysis of the  
12 feed gas composition in 2020, one truck trip would be required every 30 days. *Id.* Appellants  
13 assert that the safety hazards associated with increases in both on-site and off-site truck traffic  
14 were not sufficiently examined. *Ex. ACT-109, p. 14 (Spicer Pre-filed Testimony); Spicer*  
15 *Testimony at 204, 214-15.*

16 156.

17 Respondents argue that the design changes identified by the Appellants do not require  
18 further SEPA review because those changes constitute development that is within the scope of  
19 the proposed action evaluated by the FEIS, and the City properly relied on regulatory review by  
20 other agencies with jurisdiction over facility risk issues. Respondents further argue that none of  
21

1 the design changes are substantial or will create unexamined significant adverse impacts. *Puget*  
2 *Sound Energy, Inc.’s Post-Hearing Brief*, pp. 9-16.

3 157.

4 Dr. Gavelli, PSE’s expert witness, testified that adjustments made to accommodate the  
5 changing feed gas composition did not create new unexamined hazards. *Ex. PSE-645, pp. 10-11*  
6 *(Gavelli Declaration)*. He asserted the 2015 Siting Study evaluated the risks associated with  
7 lines carrying medium reactivity flammable liquid and the 2017 design changes, including the  
8 addition of the “New Heavies Line.” The changes did not introduce any high reactivity  
9 flammable liquid; thus, the hazards fall into the same medium reactivity category as hazards  
10 previously evaluated. *Id., p. 5*.

11 158.

12 Dr. Gavelli also testified the increased storage capacity of V-801 does not present new  
13 hazards because the 2015 Siting Study already evaluated more serious risk scenarios than  
14 releases from V-801. *Ex. PSE -645, p. 8 (Gavelli Declaration)*. Specifically, Line 8008, which  
15 connects to V-801 and carries Natural Gas Liquids (NGL) to the NGL storage vessel, was  
16 evaluated for a full-bore failure. *Id.* Additionally, by applying the PHMSA failure rate table to  
17 the lines added or modified in 2017, Dr. Gavelli testified that a full-bore rupture of the new, 2”  
18 amine line would be credible, however the stream flowing along the line is reported to include  
19 approximately 40 percent hydrocarbons and 60 percent water and therefore is not considered  
20 flammable. *Id., p. 9*.

1 159.

2 Dr. Gavelli noted that Line 8008 appears to be the only line affected by the 2017 feed gas  
3 composition changes. *Ex. PSE-645, p. 9 (Gavelli Declaration)*. Line 8008 line carries a liquid  
4 stream of heavy hydrocarbons from V-801 to the NGL storage vessel and could be subject to a  
5 higher flow rate following the facility design changes. Dr. Gavelli stated that a rough estimate of  
6 the outflow from this line indicates that the available liquid inventory could be depleted in  
7 approximately 20 seconds, as opposed to the 10-minute duration that appears to have been used  
8 in the 2015 Siting Study. Therefore, it was reasonable to conclude that the 2015 analysis of the  
9 vapor dispersion consequences of a full-bore rupture of Line 8008 is still valid. *Id., p. 9*. Dr.  
10 Gavelli testified that based on his conservative analysis, the explosion consequence of Line 8008  
11 would not exceed regulatory requirements. *Id., p. 9*.

12 160.

13 Dr. Gavelli also testified that the equipment adjustments in the liquefaction area do not  
14 render the 2015 analysis inapplicable. *Ex. PSE-645, p. 7 (Gavelli Declaration)*. He asserted the  
15 2015 analysis evaluated the overpressure consequences from the ignition of a flammable vapor  
16 cloud due to a 0.4-in leak in V-204, which is the only credible release scenario for V-204. *Id.*  
17 The worst-case scenario conservatively assumed a stoichiometric cloud that filled the entire  
18 footprint of the liquefaction area. *Id.* Thus, any change in the position of V-204 relative to the  
19 congestion areas would not result in an increase in the overpressure hazard distances. *Id.*

1 161.

2 Dr. Gavelli testified that the probability of a catastrophic failure of V-204 is not a  
3 credible scenario according to PHMSA Failure Rate Table. *Ex. PSE-645, p. 6 (Gavelli*  
4 *Declaration)*. He stated that a BLEVE can only occur as a consequence of a catastrophic failure  
5 of a pressure vessel. Dr. Gavelli opined that because the probability of catastrophic failure of V-  
6 204 is not a credible scenario, the vessel does not present the risk of a BLEVE. *Id., pp. 6-7.*

7 162.

8 Finally, Dr. Gavelli noted that offsite transportation of hazardous materials is outside the  
9 scope of TLNG's siting. Additionally, the 2018 Supplemental Siting Study evaluated the  
10 consequences of spills of heavy hydrocarbons and LNG at the truck loading station and found  
11 them to satisfy siting requirements. *Ex. PSE-645, p. 10 (Gavelli Declaration)*.

12 163.

13 Dr. Gavelli has conducted over 50 site hazard evaluations for LNG facilities, including  
14 on behalf of PHMSA. *Gavelli Testimony at 968*. Dr. Gavelli has 17 years of experience with  
15 hazard analyses and risk assessments for LNG facilities, and expertise in the regulatory and  
16 technical standards for siting these facilities. *Id. at 1049, 1052-53.*

17 164.

18 The Board finds and concludes that the testimony from Stobart and Dr. Gavelli was  
19 credible and persuasive. The Board gives greater weight to Stobart and Dr. Gavelli's testimony  
20 based on their expertise with LNG facilities, experience with state and federal regulations for  
21

1 these facilities, and direct knowledge and evaluations of the TLNG facility design changes. ¶¶  
2 150, 151, 163.

3 165.

4 Dr. Spicer conducted one site assessment, which did not involve an LNG facility. *Spicer*  
5 *Testimony at 278-79*. The City’s FEIS was the sole basis for Dr. Spicer’s understanding of the  
6 siting study regulations. *Id. at 282-83*. Dr. Spicer testified that a leak of hazardous chemical  
7 “could” pose a fire or vapor explosion hazard. ¶ 152. He also asserted relocation of equipment  
8 in the liquefaction area “could” affect areas of congestion and confinement. ¶ 154. Dr. Spicer  
9 did not run any calculations to support his testimony. *Spicer Testimony at 282*. Dr. Spicer had  
10 not undertaken an independent analysis of whether the catastrophic failure of vessel V-204 is a  
11 credible scenario and was not familiar with the PHMSA Failure Rate Table. *Id. at 283-85*. Dr.  
12 Spicer’s opinions were speculative, and he did not perform any analysis of his own to determine  
13 whether the new changes might affect compliance with PHMSA’s siting requirements.

14 Therefore, the Board gives less weight to Dr. Spicer’s testimony.

15 166.

16 The City completed SEPA review of the proposal in an EIS and evaluated the preliminary  
17 design, concluding there would be no significant adverse safety or risk impacts. ¶ 147. In  
18 general, SEPA review occurs at the conceptual stages of design, and further design changes are  
19 expected to occur. *See WAC 197-11-055(4)*. Other regulatory agencies, including the UTC,  
20 have jurisdiction to review safety and risk throughout the design, construction, and operation of  
21

1 the Project. ¶ 147. The UTC continues to have this regulatory authority and Appellants can  
2 address safety concerns through the UTC.

3 167.

4 SEPA regulations state that an agency may use environmental documents that have  
5 previously been prepared in order to evaluate proposed actions, alternative, or environmental  
6 impacts. WAC 197-600(2). An agency acting on the same proposal shall use an environmental  
7 document unchanged, except in the following cases:

8 (b) For DNSs and EISs, preparation of a new threshold determination or  
supplemental EIS is required if there are:

9 (i) Substantial changes to a proposal so that the proposal is likely to have significant  
10 adverse environmental impacts (or lack of significant adverse impacts, if a DS is  
being withdrawn); or

11 (ii) New information indicating a proposal's probable significant adverse  
12 environmental impacts. (This includes discovery of misrepresentation or lack of  
material disclosure.) A new threshold determination or SEIS is not required if  
13 probable significant adverse environmental impacts are covered by the range of  
alternatives and impacts analyzed in the existing environmental documents.

14 WAC 197-11-600(3). Decisions regarding whether a supplemental EIS is required involve the  
15 application of law to facts and are reviewed under the “clearly erroneous” standard set forth in  
16 RCW 34.05.570(3)(d); *Glasser v. City of Seattle, Office of Hearing Exam'r*, 139 Wn. App. 728,  
17 740, 162 P.3d 1134, 1139 (2007).

18 168.

19 Appellants argue a supplemental EIS is required due to changes in facility design.

20 *Appellants’ Closing Brief on SEPA Issues (Issue 2)*, p. 46. Appellants bear the burden of proving  
21



1 a supplemental EIS is required due to “substantial changes” to the proposal such that the  
2 proposal is likely to have significant adverse environmental impacts. “Significant” is defined as:

3 (1) "Significant" as used in SEPA means a reasonable likelihood of more than a  
4 moderate adverse impact on environmental quality.

5 (2) Significance involves context and intensity (WAC 197-11-330) and does not  
6 lend itself to a formula or quantifiable test. The context may vary with the physical  
7 setting. Intensity depends on the magnitude and duration of an impact.

8 The severity of an impact should be weighed along with the likelihood of its  
9 occurrence. An impact may be significant if its chance of occurrence is not great,  
10 but the resulting environmental impact would be severe if it occurred.

11 (3) WAC 197-11-330 specifies a process, including criteria and procedures, for  
12 determining whether a proposal is likely to have a significant adverse  
13 environmental impact.

14 WAC 197-11-794.

15 169.

16 Respondents argue the design changes do not require a new SEIS because other  
17 regulatory agencies, including the UTC, will apply federal, state and local regulations to address  
18 safety and risk throughout subsequent design, construction and operation of the facility. *Puget  
19 Sound Energy, Inc.’s Post-Hearing Brief, p. 11.* Respondents also argue that the safety issues  
20 related to facility redesign were raised too late. The Board addressed this argument when it  
21 denied Summary Judgment on Issue 2d, concluding that genuine issues of material fact remained  
as to the current configuration of the Project and whether Project impacts were adequately  
assessed in the SEIS. *Order on PSE’s Second Dispositive Motion, p. 20.*

170.

The Board finds and concludes Appellants have not met their burden to show the facility  
design changes are significant as defined in WAC 197-11-794. Appellants have not shown that

1 the Siting Studies did not address the safety hazards they raise. They have not shown either the  
2 severity of an impact or the likelihood of its occurrence. Furthermore, the facility design  
3 changes constitute development that is within the scope of the proposed action evaluated by the  
4 FEIS. *See* WAC 197-11-055(4).

5 171.

6 Further, the UTC is the agency with jurisdiction to identify ongoing processes relating to  
7 safety impacts from subsequent changes in design. ¶¶ 148, 167. Appellants have been  
8 participating in the UTC process and submitted Dr. Spicer’s testimony regarding safety issues.  
9 *Ex. RA-142.*

10 172.

11 The Board finds and concludes PSCAA’s reliance on the FEIS was not clearly erroneous.

12 **C. Agency’s Substantive SEPA Authority (Issue 9)**

13 173.

14 Respondents’ Legal Issue 9 asks whether legally adequate environmental review under  
15 SEPA requires either denial or further mitigation of the Project or is a reviewable cause of action  
16 under SEPA. In Legal Issue 4k, resolution of which is addressed in the Board’s decision on the  
17 Permit issues, Appellants challenge whether Condition 41 is sufficient mitigation and whether  
18 PSE will comply with the Condition. *Appellants’ Closing Brief on SEPA Issues (Issue 2), pp.*  
19 *42-43.* Condition 41 requires that PSE ensure the sole source of natural gas comes from British  
20 Columbia or Alberta (by way of British Columbia) and prohibits TLNG from accepting natural  
21 gas if the flow on the supply pipeline past the Frederickson Gate Station is not north to south.

1 *Ex. RA-132, pp. 6-7.* Appellants are apparently arguing that PSCAA should have exercised  
2 substantive SEPA authority to further condition or deny the Permit. Appellants further argue  
3 that PSCAA's assumptions regarding 1-for-1 displacement, methane leakage and slip rates, and  
4 GWP are erroneous and do not allow decisionmakers to properly mitigate for the Project. *See*  
5 *Appellants' Closing Brief on SEPA Issues (Issue 2), pp. 14, 18, 21, 42.*

6 174.

7 Respondents counter that these claims (especially as to Condition 41) do not relate to the  
8 adequacy of the SEIS but rather are challenging PSCAA's failure to exercise its substantive  
9 SEPA authority. PSCAA has the authority to enforce the Permit through permit record-keeping  
10 and reporting requirements. An agency's exercise of its substantive SEPA authority is  
11 discretionary, not mandatory. *See RCW 43.21C.060; Glasser, 139 Wn. App. at 740.* The Board  
12 concludes that PSCAA has the discretion to exercise its substantive SEPA authority to enforce  
13 Condition 41.

14 175.

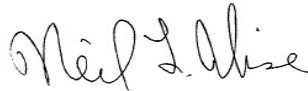
15 Any Finding of Fact deemed to be a Conclusion of Law is hereby adopted as such. Any  
16 Conclusion of Law deemed to be a Finding of Fact is hereby adopted as such. Based upon the  
17 foregoing Findings of Fact and Conclusions of Law, the Board enters the following:

1 **VII. ORDER**

2 The Order of Approval No. 11386 and the associated Supplemental Environmental  
3 Impact Statement is AFFIRMED. The Order of Approval No. 11386 is remanded for further  
4 action consistent with the Board's decision in Findings of Fact, Conclusions of Law, and Order  
5 on NOC Issues 4, 4a, 4b, 4c, 4d, 4e, 4f, 4g, 4h, 4i, 4j, 4k, 4o, 4p, 4u, 6, and 8.

6 SO ORDERED this 19th day of November, 2021.

7 **POLLUTION CONTROL HEARINGS BOARD**

8 

9 \_\_\_\_\_  
NEIL L. WISE, Board Chair

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11 \_\_\_\_\_  
CAROLINA SUN-WIDROW, Member

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MICHELLE GONZALEZ, Member

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15 \_\_\_\_\_  
HEATHER C. FRANCKS, Presiding  
Administrative Appeals Judge