

DOCKETED	
Docket Number:	23-OPT-01
Project Title:	Fountain Wind Project
TN #:	262352-1
Document Title:	Additional Administrative Records for the Fountain Wind Proceeding_Part 1
Description:	N/A
Filer:	Ngoc Tran
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	3/25/2025 3:27:14 PM
Docketed Date:	3/25/2025



MEMORANDUM

TO: Docket 23-OPT-01
FROM: Staff
SUBJECT: Documents Included in the Record of Proceedings
DATE: March 25, 2025

I. Introduction

Public Resources Code section 25545.13 provides that a project filed with the California Energy Commission (CEC) under Public Resources Code section 25545.1 is deemed an environmental leadership development project and subject to expedited judicial review if, among other things, the CEC "prepares the record of proceedings concurrently with its review of the application and certifies the record of proceedings within five days of certification."

II. Record of Proceedings

California Code of Regulations, title 20, section 1208, requires that all documents submitted in any proceeding, whether by a party, committee, the commission, or any other individual or entity, be filed with the docket. California Code of Regulations, title 20, section 1880.5 further identifies the proceeding's docket as containing all the documents comprising the record of proceedings and meeting the requirements of Public Resources Code sections 21167.6(e) and 21186.

The attached documents are being added to the Record of Proceedings. In addition to these documents, the Staff Assessment includes a list of references at the end of each section that provides detailed citations and web links to documents staff relied on to develop the technical sections of the Staff Assessment. These linked documents are publicly available and part of Record of Proceedings.

Documents indexed in the reference sections of the staff assessment that do not have web links are copyright-protected records. Public Resources Code section 21186(g) provides that an agency is not required to make copyright-protected records readily accessible in an electronic format. These copyright-protected records may be obtained from the publisher, purchased through a commercial source, or upon arrangement, viewed at the CEC's office.

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Message

From: Knight, Eric@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BE42548337F44852A291A9845F226F62-KNIGHT, ERI]
Sent: 10/7/2022 12:33:20 AM
To: Packard, Harvey@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7291486592f24fc3a72ccbc8b99fd817-Waterboards]; Tryon, Thea@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c1a6bbcee2294e4fbce35a5b3f1da2e0-Waterboards]; Crader, Phillip@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7210c7994d3941d4a5501541b6a379f1-Waterboards]
CC: Crook, Hank@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=21b8296c3cd74d7f9f2098ea35dc9224-Crook, Hank]; Babula, Jared@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6cf386251c7a47f697f411cee0910882-Babula, Jar]; Abulaban, Abdel-Karim@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c1ff1d38281a4068b2708271d22c0d94-Abulaban, A]
Subject: Opt-in certification pre-filing meeting invitation for Fountain Wind project in Shasta County
Attachments: SWRCB_CEC Opt-in Coordination Plan_09.26.2022.pdf

Hi Harvey, Phillip, and Thea –

I'm reaching out to you per the memorandum of understanding between CEC-SWRCB/Regional Boards for projects that may optionally seek certification from the California Energy Commission under the new Opt-in Certification Program established by Assembly Bill 205 and codified in Public Resources Code sections 25545-25545.13. We have been contacted by ConnectGen, the proponent of the Fountain Wind Project [Home | Fountain Wind Project](#), for a pre-application filing meeting to discuss their strategy for an application to the CEC. My limited knowledge of this project is that a Final EIR was prepared and the project was denied by Shasta County. I believe their "strategy" includes repackaging the FEIR as an Opt-in application.

The applicant initially requested to meet with CEC on 10/14 – we've countered with 10/13 and given them the following available times: 9-10, 10-11, 11-12, or 1-2. Would that date or any of those times work for you to join us via MS Teams?

We look forward to working with the Water Board/Regional Boards on this and other opt-in applications.



Eric Knight

Manager

Siting & Environmental Office

Siting, Transmission & Environmental Protection Div.

California Energy Commission

(916) 591-9931

Appointment

From: Knight, Eric@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BE42548337F44852A291A9845F226F62-KNIGHT, ERI]

Sent: 11/11/2022 1:00:45 AM

To: amudge@coxcastle.com; mlawlor@connectgenllc.com; jkuba@connectgenllc.com; HWoltag@connectgenllc.com; Caitlin.Barns@stantec.com; Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]; Hilliard, Jon@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=27a838bfda534669858cb8cf13dd12a4-Hilliard, J]; Roark, Gabriel@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed87ff1e22cd49f3aaff644c82538d46-Roark, Gabr]; Riordan, Patrick@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ac5d55bd7fad49519eaa9e71fc43871d-Riordan, Pa]; Kerr, Steven@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d0d5a66bed2249fca830918f58b3b921-Kerr, Steve]; Hinde, Jeanine@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9c0ae7bada0b407ea37a2eb74920f763-Hinde, Jean]; Hamblin, Mark@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=071cd87e7be047d7837b2754f0b5d7dd-Hamblin, Ma]; Lesh, Geoff@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=01b14cd1da3e40328ebdf58f8f287e22-Lesh, Geoff]; Fooks, Brett@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=870df74143964b71ada0039bf13c5a9a-Fooks, Bret]; Hughes, Joseph@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7dd5e80572b644209e9607ba7bdc630-Hughes, Jos]; Khoshmashrab, Shahab@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=debfeb665b7a45629f72eabeb824bce58-Khoshmashra]; Abulaban, Abdel-Karim@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c1ff1d38281a4068b2708271d22c0d94-Abulaban, A]; Hesters, Mark@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=adc98e7718ae442bab67f41b128d006-Hesters, Ma]; Ng, Laiping@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c9d8fee0b1a94a4bb9eeea36d5272c9e-Ng, Laiping]; Vorters, Dian@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2c5604e712a74c029e412542e0db72ac-Vorters, Di]; DeCarlo, Lisa@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1cfd2f38a8c4fd68db77faf8b84b1b0-DeCarlo, Li]; Babula, Jared@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6cf386251c7a47f697f411cee0910882-Babula, Jar]; Anderson, Kari@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2a783549590f4febb0eb8d96a79b60aa-Anderson, K]; Kelsey, Tanner@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=43fa3d0821fc4ce6a988d09ca40e6e4a-Kelsey, Tan]; phellman@co.shasta.ca.us; Crader, Phillip@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7210c7994d3941d4a5501541b6a379f1-Waterboards]; Coster, Lynn@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=40727eee7ecc43358146f3840a76982e-Waterboards]; Hawk, Debra@Wildlife [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=02d3d6c046884e2eb48a77a5133539fa-WildlifeDeb]; Koch, Lori@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a3269442b99e4b6eac71ca1ce19d5078-DTCLKoch]; Lorentzen, Wayne@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=67ab2660d3724727a6074450f5a5e96d-DTSCWLorent]; Lake, Victoria@Wildlife [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d36b823638eb4b7389ca4a9bad152f0f-WildlifeVic]

CC: Huber, Elizabeth@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=93f40660c3d446578d63390926fd5e5a-Huber, Eliz]; Barrera, Linda@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=4f9b3dca0d1b4c68ae27200d78e68bcd-Barrera, Li]; Bartlett, Tina@Wildlife [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=d13a3c52165742ad901f0ffb564845a7-WildlifeTin]; Snyder, Clint@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=6f1e1427e40146c9a95aac9174c7f6ba-Waterboards]; Tadlock, Stephanie@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=8c816f7cdb324c09b5cbd2d6ecf38a6a-Waterboards]; Ferouz, Muzhda@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=a5970a2c9e7942c19e64ec8ca6a4b057-DTSCMFerouz]; Watson, Carol@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=84e32d50c7dc47d89812b468a50090ed-Watson, Car]; Rubin Cruse [rcruse@co.shasta.ca.us]; James Ross [jross@co.shasta.ca.us]; Pat Minturn CEO [pjminturn@co.shasta.ca.us]; Lio Salazar [lsalazar@co.shasta.ca.us]

Subject: Formal Opt-in Prefiling Meeting: Fountain Wind Project

Start: 11/16/2022 7:00:00 PM

End: 11/16/2022 9:00:00 PM

Show Time As: Tentative

Required Attendees: amudge@coxcastle.com; mlawlor@connectgenllc.com; jkuba@connectgenllc.com; HWoltag@connectgenllc.com; Caitlin.Barns@stantec.com; Payne, Leonidas@Energy; Hilliard, Jon@Energy; Roark, Gabriel@Energy; Riordan, Patrick@Energy; Kerr, Steven@Energy; Hinde, Jeanine@Energy; Hamblin, Mark@Energy; Lesh, Geoff@Energy; Fooks, Brett@Energy; Hughes, Joseph@Energy; Khoshmashrab, Shahab@Energy; Abulaban, Abdel-Karim@Energy; Hesters, Mark@Energy; Ng, Laiping@Energy; Vorters, Dian@Energy; DeCarlo, Lisa@Energy; Babula, Jared@Energy; Anderson, Kari@Energy; Kelsey, Tanner@Energy; phellman@co.shasta.ca.us; Crader, Phillip@Waterboards; Coster, Lynn@Waterboards; Hawk, Debra@Wildlife; Koch, Lori@DTSC; Lorentzen, Wayne@DTSC; Lake, Victoria@Wildlife
Optional Attendees: Huber, Elizabeth@Energy; Barrera, Linda@Energy; Bartlett, Tina@Wildlife; Snyder, Clint@Waterboards; Tadlock, Stephanie@Waterboards; Ferouz, Muzhda@DTSC; Watson, Carol@Energy; Rubin Cruse; James Ross; Pat Minturn CEO; Lio Salazar

Formal pre-filing meeting (pursuant to Title 20, CCR, section 1876.5) for Fountain Wind Project in Shasta County

Participants:

ConnectGen (applicant) and consultants

CEC

CDFW

Water Boards

DTSC

Shasta County

Agenda to follow

Microsoft Teams meeting

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Message

From: Payne, Leonidas@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: 11/16/2022 6:05:17 PM
To: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; amudge@coxcastle.com; mlawlor@connectgenllc.com; jkuba@connectgenllc.com; HWoltag@connectgenllc.com; Caitlin.Barns@stantec.com; Hilliard, Jon@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=27a838bfda534669858cb8cf13dd12a4-Hilliard, J]; Roark, Gabriel@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed87ff1e22cd49f3aaff644c82538d46-Roark, Gabr]; Riordan, Patrick@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ac5d55bd7fad49519eaa9e71fc43871d-Riordan, Pa]; Kerr, Steven@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d0d5a66bed2249fca830918f58b3b921-Kerr, Steve]; Hinde, Jeanine@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9c0ae7bada0b407ea37a2eb74920f763-Hinde, Jean]; Hamblin, Mark@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=071cd87e7be047d7837b2754f0b5d7dd-Hamblin, Ma]; Lesh, Geoff@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=01b14cd1da3e40328ebdf58f8f287e22-Lesh, Geoff]; Fooks, Brett@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=870df74143964b71ada0039bf13c5a9a-Fooks, Bret]; Hughes, Joseph@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7dd5e80572b644209e9607ba7bdc630-Hughes, Jos]; Khoshmashrab, Shahab@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=debfeb665b7a45629f72eabeb824bce58-Khoshmashra]; Abulaban, Abdel-Karim@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c1ff1d38281a4068b2708271d22c0d94-Abulaban, A]; Hesters, Mark@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=adc98e7718ae442bab67f41b128d006-Hesters, Ma]; Ng, Laiping@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c9d8fee0b1a94a4bb9eeea36d5272c9e-Ng, Laiping]; Vorters, Dian@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2c5604e712a74c029e412542e0db72ac-Vorters, Di]; DeCarlo, Lisa@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1cfd2f38a8c4fd68db77faf8b84b1b0-DeCarlo, Li]; Babula, Jared@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6cf386251c7a47f697f411cee0910882-Babula, Jar]; Anderson, Kari@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2a783549590f4febb0eb8d96a79b60aa-Anderson, K]; Kelsey, Tanner@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=43fa3d0821fc4ce6a988d09ca40e6e4a-Kelsey, Tan]; phellman@co.shasta.ca.us; Crader, Phillip@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7210c7994d3941d4a5501541b6a379f1-Waterboards]; Coster, Lynn@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=40727eee7ecc43358146f3840a76982e-Waterboards]; Hawk, Debra@Wildlife [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=02d3d6c046884e2eb48a77a5133539fa-WildlifeDeb]; Koch, Lori@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a3269442b99e4b6eac71ca1ce19d5078-DTCLKoch]; Lorentzen, Wayne@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=67ab2660d3724727a6074450f5a5e96d-DTSCWLorent]; Lake, Victoria@Wildlife [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d36b823638eb4b7389ca4a9bad152f0f-WildlifeVic]
CC: Huber, Elizabeth@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=93f40660c3d446578d63390926fd5e5a-Huber, Eliz]; Barrera, Linda@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group

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 (FYDIBOHF23SPDLT)/cn=Recipients/cn=d13a3c52165742ad901f0ffb564845a7-WildlifeTin]; Snyder, Clint@Waterboards [/o=ExchangeLabs/ou=Exchange Administrative Group
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 (FYDIBOHF23SPDLT)/cn=Recipients/cn=84e32d50c7dc47d89812b468a50090ed-Watson, Car]; Rubin Cruse [rcruse@co.shasta.ca.us]; James Ross [jross@co.shasta.ca.us]; Pat Minturn CEO [pjminturn@co.shasta.ca.us]; Lio Salazar [lsalazar@co.shasta.ca.us]; Lance Olenius [lolenius@connectgenllc.com]; Branch, Alexander(Harlee)@Wildlife [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=efe78fbc6c1e408da007e97ea1d8cdf6-WildlifeHar]; Haws, Marichka@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=952e0b50c8ae422588958c273050b0b0-Haws, Maric]; Veerkamp, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group
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 (FYDIBOHF23SPDLT)/cn=Recipients/cn=f08aaa91182c441ea86fea05a2a09689-Salyphone,]

Subject: Re: Formal Opt-in Prefiling Meeting: Fountain Wind Project

Attachments: Fountain Wind prefiling meeting agenda.pdf

Agenda attached. Thanks to Annie Mudge for giving us a starting point to work from.

Annie, FYI--I added a few items to the "next steps" portion because I have some brief comments to make on filing, fees, and data adequacy review.

Lon Payne--Project Manager
 California Energy Commission

From: Knight, Eric@Energy
Sent: Tuesday, November 8, 2022 4:01 PM
Subject: Formal Opt-in Prefiling Meeting: Fountain Wind Project
When: Wednesday, November 16, 2022 11:00 AM-1:00 PM.
Where:

Formal pre-filing meeting (pursuant to Title 20, CCR, section 1876.5) for Fountain Wind Project in Shasta County

Participants:
 ConnectGen (applicant) and consultants
 CEC
 CDFW
 Water Boards
 DTSC
 Shasta County

Agenda to follow

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 264 159 613 561

Passcode: eYBSCU

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 916-306-7589,,613897681#](#) United States, Sacramento

Phone Conference ID: 613 897 681#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)

Fountain Wind Opt-in Prefiling

November 16, 2022



Leonidas Payne, Project Manager
Siting, Transmission, and Environmental Protection Division



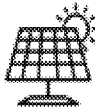

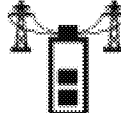
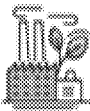


Legislation/Rulemaking Background

- June 30, 2022: Assembly Bill 205 establishes a new program for certain non-fossil-fueled power plants and clean energy manufacturing facilities to optionally seek a permit to construct and operate from the CEC (“opt-in program”). CEC permit is in lieu of most other local, state, and regional permits, and federal permits to the extent allowed by federal law. Public Resources Code sections 25545-25545.13.
- October 12, 2022: Regulations to implement the opt-in program adopted as emergency regulations at CEC Business Meeting.
- October 24, 2022: OAL issues decision on emergency regulations and regulations take immediate effect.



Overview

- Opt-in Program established until June 30, 2029
- Streamlined process for certain eligible facilities to optionally seek a permit (or certification) from the CEC to construct and operate

<p>Solar photovoltaic power plant of at least 50 MW</p> 	<p>Terrestrial wind power plant of at least 50 MW</p> 	<p>Energy storage system of at least 200 MWh</p> 
<p>Non-fossil-fueled thermal power plant of at least 50 MW (i.e., jurisdictional facility)</p> 	<p>Manufacturing/assembly facility for renewable energy/energy storage systems or components with at least \$250 million investment</p> 	<p>Transmission from an eligible power plant or energy storage system to the first point of interconnection</p> 



Process Outline

1. Pre-filing Meeting (30 days prior to filing)
2. Docket Established
3. Application and Fees Submitted
4. Transmit application to local land use and interested agencies and publish summary in newspaper (per PRC 25545.8 referencing PRC 25119 subdivisions (f), (g), (j), and (k))
5. Data Adequacy review--CEC requests additional information if necessary
6. Application Deemed Complete (Day 0)
7. Notice of Preparation of EIR (by Day 3)
8. Initiate Tribal Engagement (by Day 5)
9. Public Informational Meeting/Scoping Meeting (by Day 30) [CEC will likely combine these 2 events.]
10. Discovery—data requests and responses (30 day turn-around per PRC 25545.4(d))
11. Publish Notice of Availability & Draft EIR+ (on or before Day 150) which initiates 60 day public comment period
12. Public Workshop/Meeting on DEIR+ approx. 20-40 days after DEIR+ published [Public workshop and public meeting discussed separately in regs but CEC would likely combine these 2 events.]
13. Final EIR+ (on or before Day 240)
14. Decision at CEC Business Meeting (on or before Day 270)
15. Other Agencies Issue Permits (if applicable) (Day 270-360)



Filing Opt-in Application (§1876)

- File application in the Docket and follow technical requirements (sections 1208 and 1208.1)
- Authorize and verify application under penalty of perjury (section 1707)



Opt-in Application Content (§1877)

- Appendix B (requirements for AFC)
- Information required for incidental take and lake and streambed alteration, if authorization being sought
- How the project is eligible under PRC section 25545(b)
- Certifications required under PRC section 25545.3.3 and 25545.3.5 (related to labor)
- Whether any required permits applications have been sought, and plan for obtaining other required permits
- Whether project is on a “prohibited” site under PRC section 25527 or 25528, and documentation of relevant agency approvals
- Preliminary information on overall net positive economic benefit to local government
- Plan or strategy to obtain binding agreements with or for the benefit of community-based organization(s)
- Whether project is eligible for streamlined judicial review



Application Completeness (§1878)

- CEC may request additional information from the applicant
- Executive director will file a statement when the application is complete, the later of either:
 - 30 days after submission if CEC does not request additional information, or
 - Upon CEC acceptance of additional requested information
- Within 45 days after application complete or at a later date specified by the executive director, applicant must update information to support findings on:
 - The net positive economic benefit to local government
 - Agreement(s) with or to benefit community-based organization(s)



Public Outreach (§1880)

- Required Public Meetings (discussed at PRC 25545.7.2, 25545.7.6) must be held as close as practicable to the proposed site (PRC 25545.7.2, 25545.7.6)
- Meetings to allow for remote participation
- 10 days' notice of meetings



Initial Staff Assessment (§1879(a))

- Draft Environmental Impact Report
- Whether project complies with minimum efficiency standards in Public Resources Code section 25402(d)
- Conformity with public safety standards, air and water quality standards, and otherwise applicable local, regional, state, and federal laws, ordinances, regulations, or standards (LORS)
- Potential for restoring the site if application is denied
- Public benefits of the project
- Identification of public agencies that received notice of the opt-in application
- Identification of whether site is in a “prohibited” area (PRC 25526 and 25527)
- Net economic impact to local government
- Binding agreements with or for the benefit of one or more community-based organizations
- Whether the project meets the requirements for streamlined judicial review (Pub. Resources Code sections 21183 and 21183.6)



Final Staff Assessment (§1879(b))

- Following 60-day minimum public comment period
- Final EIR
- Updates and changes to other findings in staff assessment
- Published at least 30 days before CEC business meeting
- Executive Director files recommendation to CEC



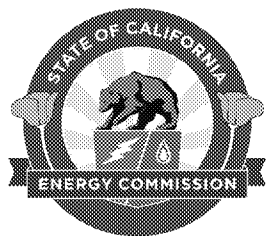
Commission Decision (§1881)

- Record includes the final EIR, staff's assessment, the Executive Director's recommendation, public comment
- Commission decision at business meeting

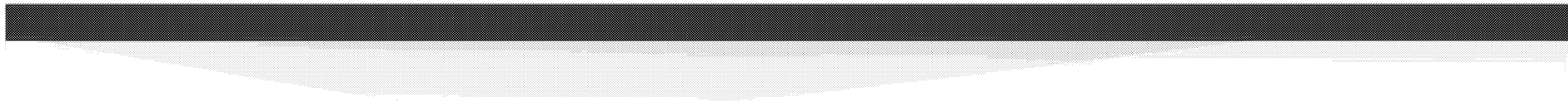


Post Certification Changes (§1882)

- Project owner must file petition with payment to CEC
- Staff files summary description and procedures within 30 days, and provide copy to each nearby property owner
- Staff shall approve if no subsequent or supplemental EIR required
- Any person may object to staff approval within 14 days and make showing that subsequent or supplemental EIR is required
- If subsequent or supplemental EIR required, staff shall prepare the environmental document and submit to the CEC for approval at a business meeting



Thank You!

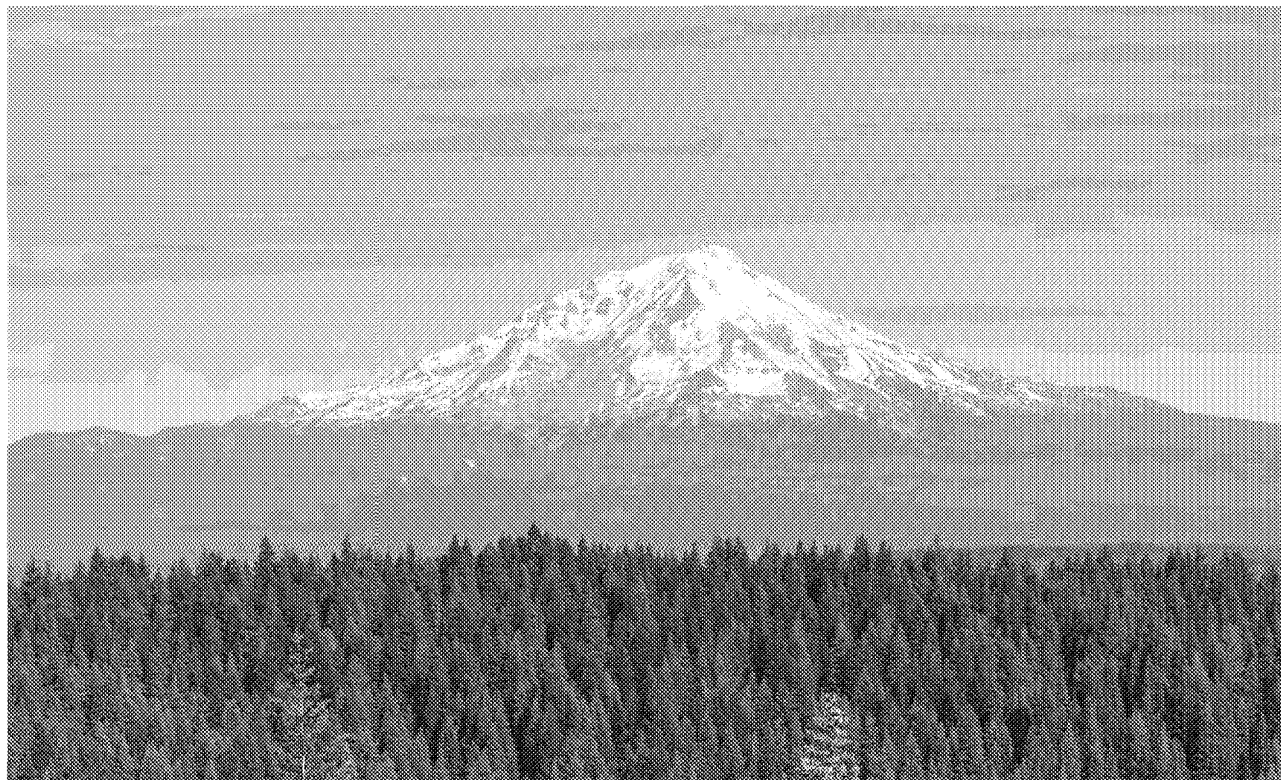




Fountain
WIND PROJECT

November 16, 2022

Fountain Wind Project Overview



Connecting Power, Projects, and People

About ConnectGen



ConnectGen is backed by Quantum Energy Partners. Founded in 1998, Quantum Energy Partners is a leading provider of private equity capital to the global energy industry, having managed together with its affiliates more than \$17 billion in equity commitments since inception.



ConnectGen is an independent renewable energy company developing large-scale wind, solar, and energy storage projects across North America.

ConnectGen has established a portfolio of over 24,000 MW of wind, solar, and energy storage projects.

Our experienced team holds deep familiarity with transmission system analysis and market design/regulatory issues.

Project Overview

Project began development in 2011 shortly after the adjacent Hatchet Ridge Wind project began operations. Intensive study took place 2017-2021.

Project is sited on commercial timberlands and adjacent to existing 230 kV PG&E transmission line. Until 2022 amendment, County zoning allowed wind energy

Ideal location for wind project: utility grade wind speeds in an area that avoids most environmental impacts and mitigates those that could not be fully avoided/mitigated.

Provides critically needed in-state wind energy where greenfield wind sites are exceptionally scarce.

Essential to meeting state's carbon objectives.

Responsibly sited project which will generate millions of dollars in local revenue, income and taxes.



Eligibility for CEC Opt-In Program and Certification by Commission

Is the project a qualifying "facility" under PRC 25545? YES

The Project is a terrestrial wind energy electrical generating project with a generating capacity of 50 MW or more

Will the application enter into a project labor agreement meeting PRC 25525.3.3 requirements? YES

A certification attesting to compliance with the requirements of PRC 25545.3.3 will be provided with the application materials.

Will the Project will have an "overall net positive economic benefit to the local government" per PRC 25545.9? YES

- Employment growth
- Infrastructure and environmental improvements
- Assistance to public safety agencies
- Property taxes and sales taxes

Will the Project enter into enforceable agreements that benefit community-based organizations per PRC 25545.10? YES

The Project has proposed a Community Benefit Program of approximately \$2,800,000 based on direct feedback from project stakeholders

Does the Project qualify as an Environmental Leadership Development Project pursuant per PRC 25545.13? YES

New Jobs & Long-term Revenue for the County



200
UNION CONSTRUCTION JOBS



12
WELL-PAYING LONG-TERM JOBS



\$50 MILLION
IN PROPERTY TAX REVENUE



\$3.5 MILLION
IN SALES TAX REVENUE

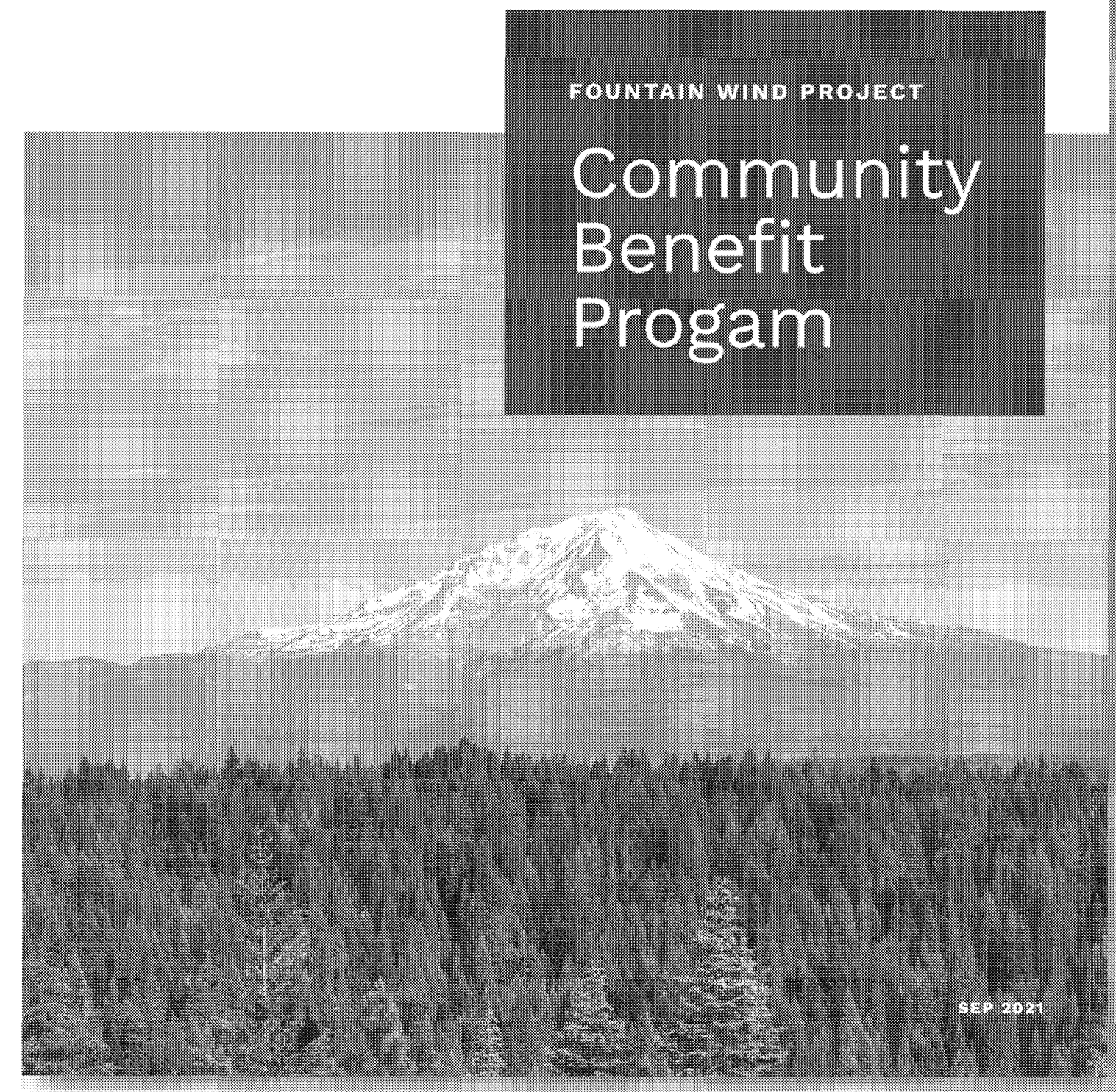
Significant Community Benefits Program

ConnectGen's core values include community engagement and community investment

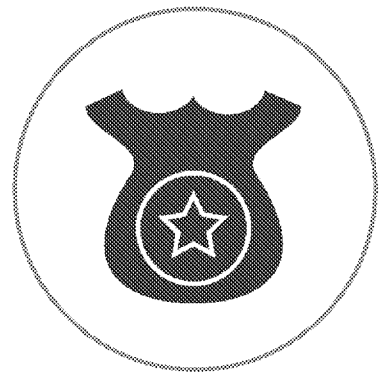
Prior to the requirement outlined in AB 205 ConnectGen spent multiple years engaging with the community, learning about local issues, and crafting a program to address local needs

ConnectGen is proud to support Shasta County through the Fountain Wind Project Community Benefit Program, which consists of approximately \$2,800,000 in funding to support education, public safety, fire protection, and workforce development

The projects and organizations highlighted in the Program were identified based on direct feedback from members of the community



Significant Community Benefits Program



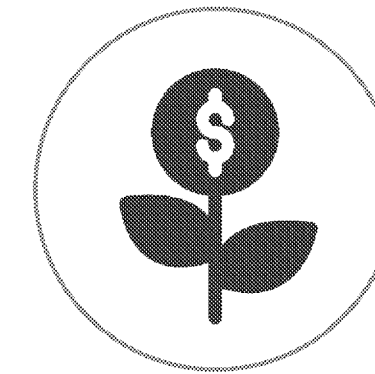
\$1 million commitment to Shasta County Sheriff's Office

Based on feedback from a wide range of stakeholders and community leaders in Shasta County it is clear that improving public safety throughout the County is of utmost priority. In consultation with the Shasta County Sheriff's Office, ConnectGen has proposed a funding commitment of \$1,000,000 for county-wide public safety purposes such as illegal cannabis growth eradication or improvements to the County's emergency management response operations.



\$100,000 commitment to the Shasta County Fire Safe Council and the Western Shasta Resource Conservation District

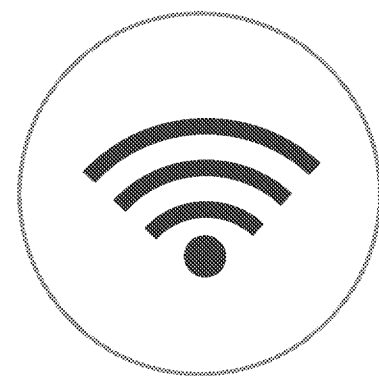
Based on public interest in wildfire prevention and protection, representatives of ConnectGen held meetings with the Western Shasta Resource Conservation District and Shasta County Fire Safe Council to identify opportunities for the Project to support additional fire safety projects for the citizens of Round Mountain and Montgomery Creek, as well as Shasta County as a whole. Over the course of multiple conversations, it was communicated that the county-wide Community Wildfire Protection Plan, originally prepared in 2016, needs to be updated to include the communities of Round Mountain and Montgomery Creek.



\$1 million Endowment for the communities of Round Mountain & Montgomery Creek

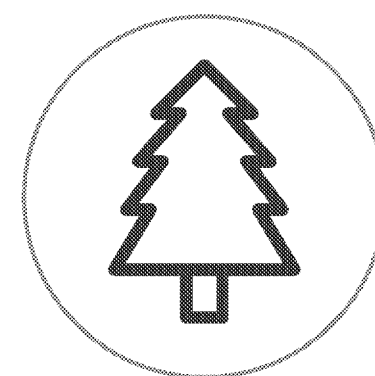
ConnectGen has committed a \$1,000,000 direct investment in the communities of Round Mountain and Montgomery Creek based on feedback from residents regarding the need for local economic development. The funding would be administered by an Advisory Committee made up of representatives from the local School District, Shasta College, local non-profits, the Pit River Tribe, and at-large community members selected by the Board of Supervisors. The Advisory Committee would conduct community feedback sessions to determine how the community would like to see the investment be spent.

Significant Community Benefits Program



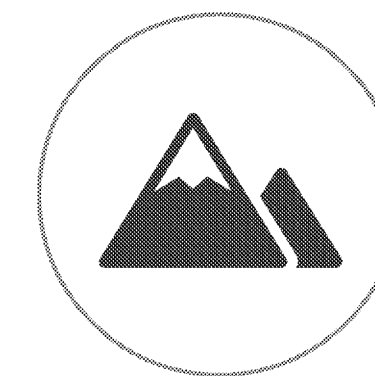
\$200,000 commitment
for enhanced internet service in
the Intermountain region

Outreach with local stakeholders identified that one of the greatest needs in the community is access to reliable, cost efficient internet service. ConnectGen has committed to funding two new communications towers, to be installed by Shasta Beam, that will provide access to internet service to over 90% of residential and business addresses in the Big Bend, Round Mountain, and Montgomery Creek communities, totaling approximately 700 addresses.



\$250,000 commitment
to the Fall River Resource Conservation
District for a high priority shaded fuel
break project

ConnectGen recognizes that improved fire safety and fire protection is a matter of extreme importance in Shasta County. ConnectGen has partnered with the Fall River Resource Conservation District ("Fall River RCD") to develop and implement a fuel reduction and fuel break project along Hwy 299 and Big Bend Rd., adjacent to the Fountain Wind Project, and will be providing funding in the amount of \$250,000 to the Fall River RCD for design, permitting, and implementation of the Fuel Break Project.

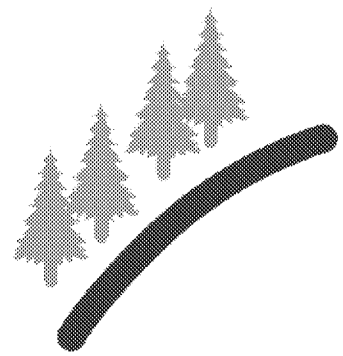


Community Access
to Shasta Cascade Timberlands
Property for hunting and culturally
significant activities

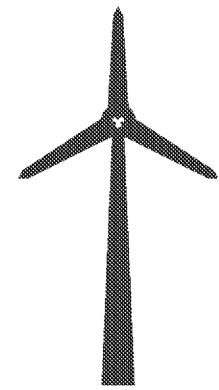
Based on strong interest from local residents and members of the Pit River Tribe, ConnectGen worked with the Fountain Wind Project landowner, Shasta Cascade Timberlands, to develop a program to allow public access to the property for hunting, as well as access to culturally significant sites. This community access program will be administered by the landowner's land management company, with assistance from the full-time operational personnel that will be employed by the Fountain Wind Project.

Contributes to Fire Protection in Shasta County

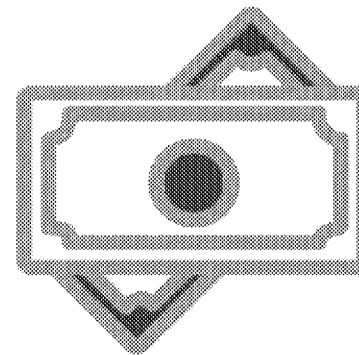
Fountain Wind would have significant fire safety systems in place at the project site, while contributing to the overall fire protection of the surrounding area.



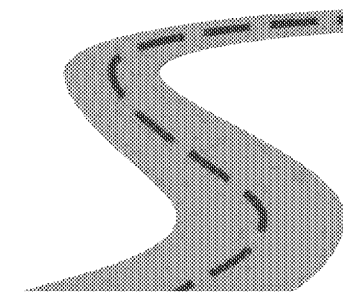
1,600 Acres
New Fire
Breaks



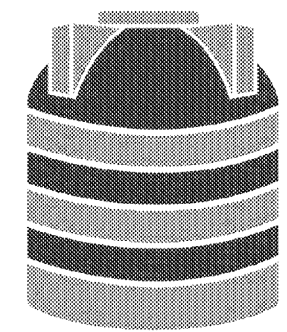
Enhanced Fire
Detection &
Suppression in
Turbine Nacelle



\$350,000 Funding
for Wildfire Safety
Projects

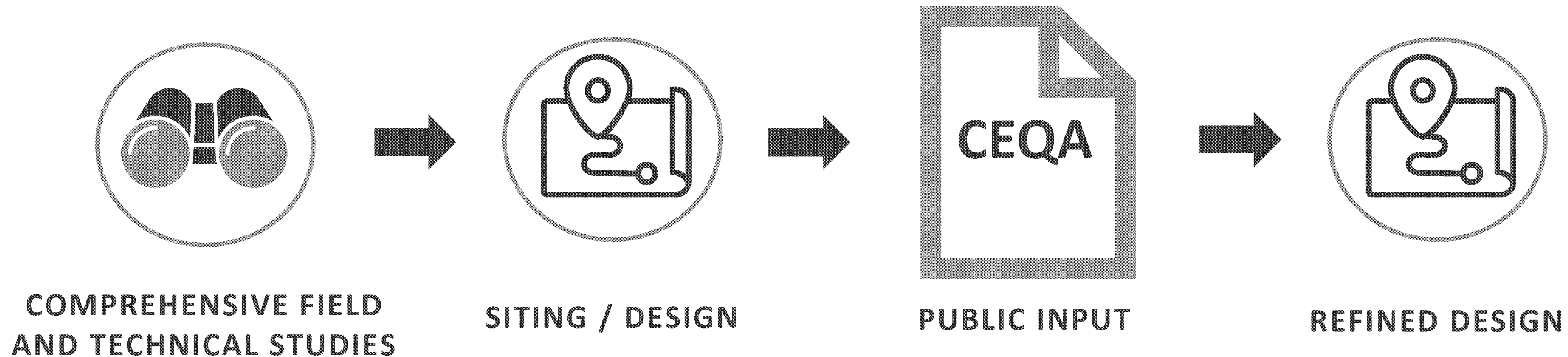


38 miles of
Enhanced
Access Roads



New 5,000-
Gallon Water
Tanks

Comprehensive Review and Revision



Fountain Wind has made revisions throughout the development process to reduce impacts and in response to stakeholder and agency feedback.

The refinements are fully within the footprint studied and disclosed through the County's CEQA process.

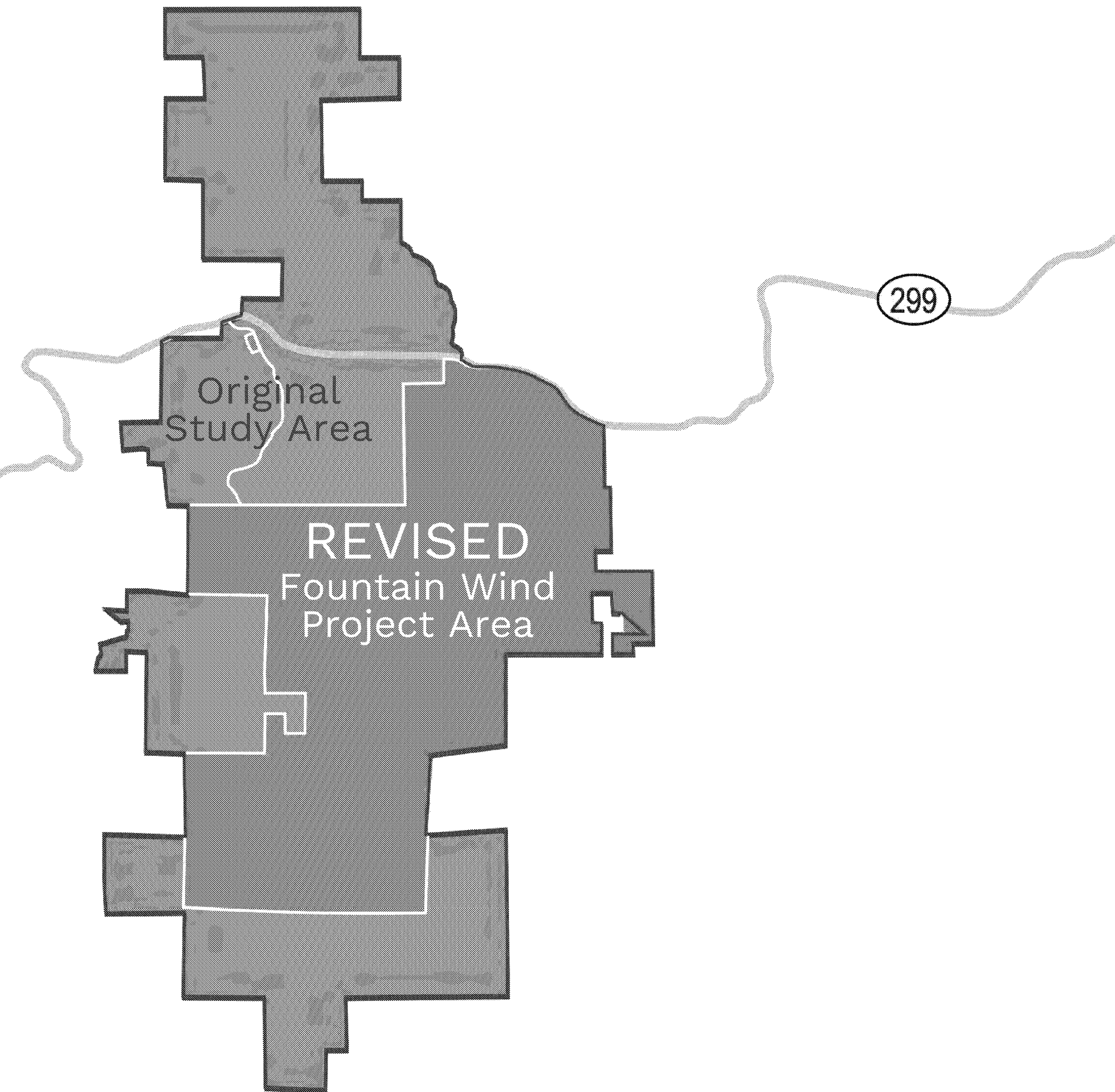
This was CEQA working.

Project Refinements

Based on public and agency comments, ConnectGen reduced the permanent footprint from 713 to 475 acres and total turbines from 72 to 48, with fewer roads, stream crossings and fewer impacts to habitat and wildlife.

Key refinements included:

- Reduced the number of turbines by 24 (including removal of turbine M3 as requested by CDFW)
- Decreased turbine tip height by 10%
- Condensed Project Area by 50%
- Reduced permanent and temporary disturbance by 33% and 35%



THE REFINED PROJECT AREA USES **50% LESS** OF THE PROPERTY



Original Project

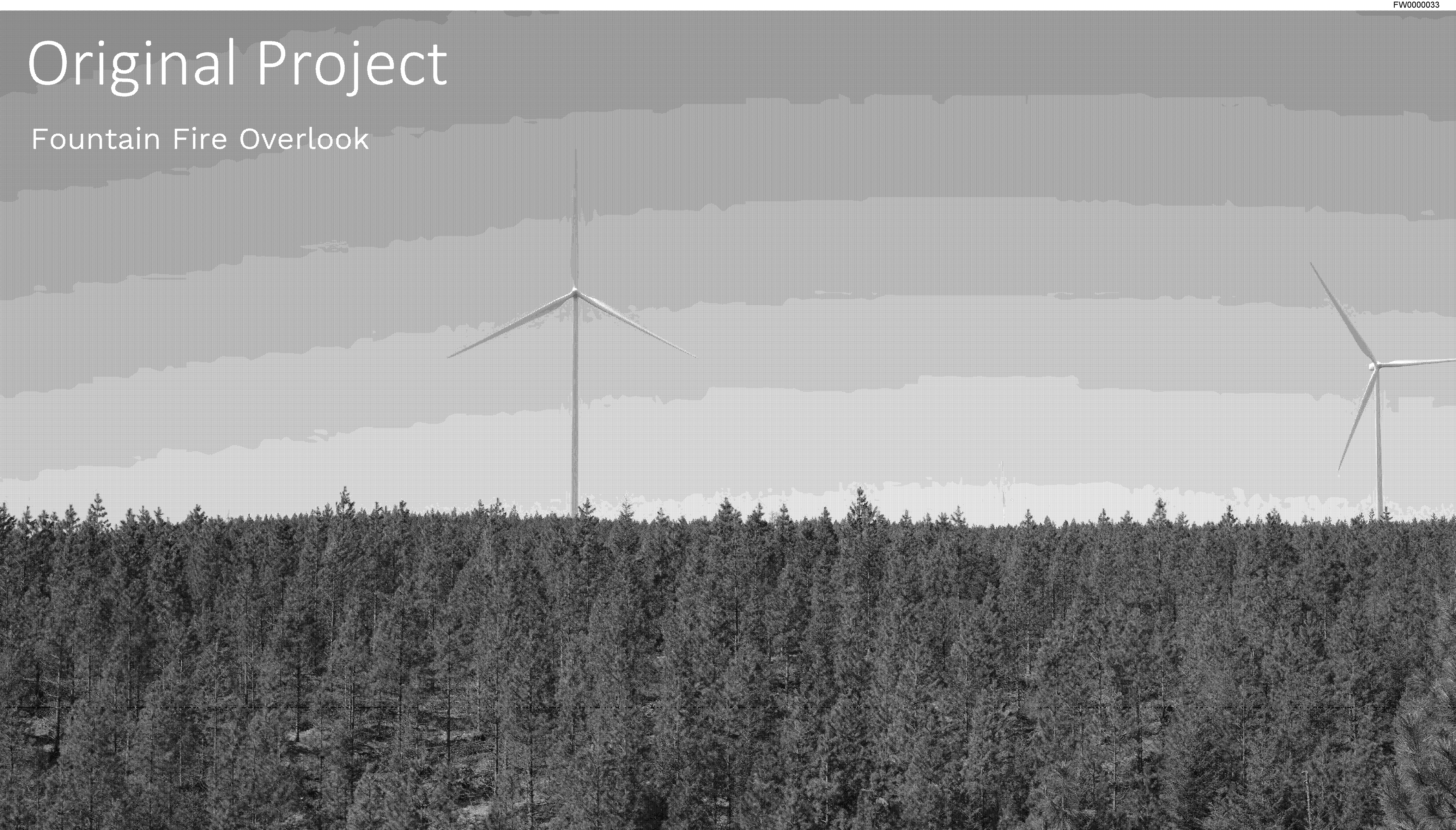


Refined Project



Original Project

Fountain Fire Overlook



Refined Project

Fountain Fire Overlook



Original Project

Montgomery Creek



Refined Project

Montgomery Creek



Original Project

Round Mountain





Refined Project

Round Mountain

Project Commitments Based on CDFW Comments

- Relocation of collection lines and access roads to avoid existing drainages and associated aquatic features and to avoid cultural resource site FW11
- Elimination of turbine location M03 in response to a request by CDFW to reduce risks to avian and bat species.
- Worker environmental awareness training program
- Continued application of Land-Based Wind Energy Guidelines
- Preparation and implementation of a Bird and Bat Conservation Plan and Nesting Bird Management Plan
- Application of Avian Power Line Interaction Committee
- Adoption of a Federal Aviation Administration-approved lighting plan for meteorological towers and downward-facing and shielded lighting on other project components in consideration of the USFWS Communication Tower Guidance
- Implementation of an Invasive Species Management Plan
- Avoidance of sensitive habitats and waterways during application of dust palliatives
































Opt-in Application Overview

- **Cover Letter**
- **Executive Summary:** project overview, permitting history, site selection criteria and alternatives, project refinements, summary of agency and community outreach, scoping and CEQA process, community and environmental benefits, Shasta County's permitting process.
- **Project Description:** overview of project component engineering including wind turbine generators, collection lines, substation, switching station, interconnection facilities, access roads, laydown areas, operations and maintenance facility, meteorological equipment; overview of construction sequence, schedule, and workforce; stormwater control, water use, wastewater procedures, hazardous materials; operations and maintenance; decommissioning and site restoration.
- **"Cross-walk" Matrix:** responses to each data request in Application for Certification Appendix B including source documents (e.g., DEIR sections, technical reports) corresponding to filenames in the docket and/or written responses for further clarification.

Opt-in Application Overview: “Cross-Walk” Matrix

Tit. 20 § B App. F	Data Request	Source Document/Section	Data Response	Filename in Docket
(i) Compliance with Laws, Ordinances, Regulations and Standards				
(1)	Tables which identify:			
(A)	Laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed.	<p>* Table of Applicable LORS</p> <p>*Shasta County Staff report dated 6/22/21 to the Planning Commission:</p> <p>- p. 12... "Based upon the provisions of the Zoning Plan outlined above, private energy production facilities, including wind energy systems that do not comply with the requirements for small energy wind systems, may be permitted with an approved use permit. Therefore, the processing of the use permit application filed by the applicant for the Project is consistent with the Shasta County Zoning Plan."</p> <p>- p. 13:" staff is of the opinion that the Project is consistent with the General Plan plan policies and zoning standards for the area and that the establishment, operation, and maintenance of the Project would not be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood or be detrimental or injurious to property or improvements in the neighborhood or to the general welfare of the County."</p>	See referenced source documents	lors_fwp_consistency_matrix ceqa_fwp_staff_report
(B)	Each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state, and federal landuse plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	DEIR Section 2 Description of Project and Alternatives, Table 2-8 (Summary of Permits and Approvals)	See referenced source documents	deir_fwp_2_descr_proj_and_alts
(2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Scoping Report Appendix B, Direct Mail Notice	See referenced source documents	ceqa_fwp_scoping_report
(3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 3 in Project Description	See referenced source documents	

Opt-in Application Overview: Docket File Database

Name	Date modified	Type	Size
 ceqa_fwp_notice_of_preparation.pdf	1/22/2019 1:47 PM	Adobe Acrobat Document	113 KB
 ceqa_fwp_scoping_report_part1.pdf	11/9/2022 1:03 PM	Adobe Acrobat Document	27,789 KB
 ceqa_fwp_scoping_report_part2.pdf	11/9/2022 1:03 PM	Adobe Acrobat Document	23,197 KB
 ceqa_fwp_scoping_report_part3.pdf	11/9/2022 1:03 PM	Adobe Acrobat Document	14,587 KB
 ceqa_fwp_staff_report.pdf	9/20/2022 2:56 PM	Adobe Acrobat Document	4,431 KB
 ceqa_fwp_timber_conversion_permit.pdf	10/12/2022 2:15 PM	Adobe Acrobat Document	9,187 KB
 cul_fwp_cultural_report_author_qual.s.pdf	10/12/2022 2:19 PM	Adobe Acrobat Document	113 KB
 cul_fwp_fig_structures_built_before_1977.pdf	10/12/2022 2:28 PM	Adobe Acrobat Document	1,232 KB
 cul_fwp_nahc_letters.pdf	1/16/2019 2:45 PM	Adobe Acrobat Document	727 KB
 cul_fwp_tribal_addendum.pdf	3/24/2020 2:23 PM	Adobe Acrobat Document	3,808 KB
 deir_fwp_2_descr_proj_and_alts.pdf	8/3/2020 8:59 AM	Adobe Acrobat Document	2,054 KB
 deir_fwp_3-1_intro_enviro_analysis.pdf	8/3/2020 8:59 AM	Adobe Acrobat Document	541 KB
 deir_fwp_3-2_aesthetics.pdf	8/3/2020 8:59 AM	Adobe Acrobat Document	3,461 KB
 deir_fwp_3-3_air_quality.pdf	8/3/2020 9:00 AM	Adobe Acrobat Document	561 KB
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 deir_fwp_3-13_noise_vibration.pdf	8/3/2020 9:04 AM	Adobe Acrobat Document	1,828 KB
 deir_fwp_3-14_transportation.pdf	8/3/2020 9:05 AM	Adobe Acrobat Document	447 KB
 deir_fwp_3-15_utilities_svc_systems.pdf	8/3/2020 9:05 AM	Adobe Acrobat Document	350 KB
 deir_fwp_3-16_wildfire.pdf	8/3/2020 9:05 AM	Adobe Acrobat Document	1,663 KB
 deir_fwp_4_comp_of_alts.pdf	8/3/2020 9:05 AM	Adobe Acrobat Document	274 KB
 deir_fwp_4_comp_of_alts.pdf	8/3/2020 9:05 PM	Adobe Acrobat Document	734 KB

Opt-in Application Overview--continued

Docket Files: 120+ documents (50,000+ pages) supporting the application, including:

- CEQA and Permitting Materials: Full text of Shasta County Use Permit, DEIR, FEIR, Initial Study, MMRP, NOP, scoping report, staff report, and Timber Conversion Permit;
- Technical reports (2017-2021): 28 biological studies (rare plants, birds [17 studies], bats, amphibians, aquatic resources); cultural survey reports, DPR forms, NAHC letters, surveyor qualifications; air quality and GHG inputs; documentation of tribal consultation under AB 52; hazardous materials database results; wildfire research and expert testimony; noise report; preliminary geotech report; visual resource studies including shadow flicker assessment, viewshed modeling, pre- and post-project simulations; traffic studies; socioeconomics reports; water supply assessment including correspondence with water district
- Applicant-prepared materials: FAQs; presentations for Planning Commission hearing, Board of Supervisors Meeting, public and agency outreach, tribal outreach; community benefits program information; agency and tribal outreach correspondence
- Appendix B Data Responses: information on interconnection agreement, lease agreement, disadvantaged communities, parcel owner contact information, text of relevant local ordinances; figures of design details and resource proximity; full text of submitted permits (LSAA, FAA DNH); labor certifications; assessment of compliance with laws, ordinances, and regulations

Conclusion

- The Project will provide tremendous benefits to both Shasta County and the adjacent communities of Round Mountain and Montgomery Creek through over **\$50 million in tax revenues** and an almost **\$3 million Community Benefit Program**.
- Shasta County planning staff recommended that **the FEIR be certified**; that the **use permit be approved** and that the **Statement of Overriding Considerations be adopted**.
- Project is **consistent with Shasta County General Plan** Objective E-2 calling for “increase utilization of renewable energy resources” and E-d “priority shall be given to energy projects and programs that provide jobs and other economic benefits for County residents.”
- The Project continues to have **significant support** from local unions, businesses, non-profits, and community members.

Looking Forward

- Fountain Wind is ready to advance through the CEC permitting process. If approved, the project is shovel-ready.
- Significant demand for Fountain Wind: Project was in term sheet negotiations during permitting.
- Wind resources are scarce: Given CAISO Interconnection delays, there is a significant lack of projects in the queue that can come online in the next 2-3 years. Fountain Wind is the largest on-shore wind project in PG&E's service territory with a signed Interconnection Agreement.

If approved by the CEC in 2023, Fountain Wind would be positioned to start construction activities as soon as 2024

Message

From: Hilliard, Jon@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=27A838BFDA534669858CB8CF13DD12A4-HILLIARD, J]
Sent: 12/12/2022 11:29:27 PM
To: Watson, Carol@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=84e32d50c7dc47d89812b468a50090ed-Watson, Car]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]
Subject: FW: For arranging meeting to discuss bio surveys for Fountain Wind

Hi Carol – ConnectGen would like to meet this coming Friday to go over the studies they have for Fountain Wind – not to review them but discuss age of information, updates, etc.

Do you have availability except for 11Am to 12 Noon? Please let me know as soon as you can, and I will set it up.

Jon R. Hilliard, A.I.C.P.

Biological Resources Supervisor

916-661-8174 (Cell)

707-266-6844 (Google phone)

715 P Street, MS-40, Sacramento, CA 95814, or

Direct Mail: 273 Peach Tree, VV, CA 95688



CALIFORNIA
ENERGY COMMISSION

From: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>
Sent: Monday, December 12, 2022 3:22 PM
To: Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>
Subject: For arranging meeting to discuss bio surveys for Fountain Wind

Henry Wollag

Director



ConnectGEN

1001 McKinney, Suite 700

Houston, TX 77002

Cell: 281.520.6995

Email: hwollag@connectgenllc.com



Eric Knight

Manager

Siting & Environmental Office

Siting, Transmission & Environmental Protection Div.

California Energy Commission

(916) 591-9931

Message

From: Hilliard, Jon@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=27A838BFDA534669858CB8CF13DD12A4-HILLIARD, J]
Sent: 10/27/2022 10:29:41 PM
To: Babula, Jared@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6cf386251c7a47f697f411cee0910882-Babula, Jar]; Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Huber, Elizabeth@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=93f40660c3d446578d63390926fd5e5a-Huber, Eliz]
Subject: FW: Fountain Wind Coordination and Engagement
Attachments: Ordinance No. SCC 2022-04.pdf

FYI – from Shasta County

From: Paul Hellman <phellman@co.shasta.ca.us>
Sent: Wednesday, October 26, 2022 6:41 PM
To: Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>
Subject: RE: Fountain Wind Coordination and Engagement

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Jon,

Thank you. Attached is the ordinance we discussed which prohibits “large wind energy systems” within the unincorporated area of Shasta County (see Section III, pp. 3-4).

Thanks,
Paul Hellman, Director
Shasta County Department of Resource Management
(530) 225-5114
<https://www.co.shasta.ca.us/index/drm>

From: Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>
Sent: Wednesday, October 26, 2022 6:17 PM
To: Paul Hellman <phellman@co.shasta.ca.us>
Cc: Huber, Elizabeth@Energy <Elizabeth.Huber@energy.ca.gov>; Knight, Eric@Energy <Eric.Knight@energy.ca.gov>
Subject: Fountain Wind Coordination and Engagement

EXTERNAL SENDER: Do not follow links or open attachments unless you recognize the sender and know the content is safe.

Hi Mr. Hellman:

It was a pleasure to make contact with you today. As discussed on our call, here is the approved Emergency Rulemaking establishing the permitting process, pursuant to AB 205 and AB 209, for “Opt-In” Energy Facilities at the California Energy Commission. The second document is part of a package still in review with Office of Administrative Law. Appendix “B” Amendments included.

Please feel free to call me or Eric Knight (916-591-9931, cc’d on this message).

Jon R. Hilliard, A.I.C.P.

Biological Resources Supervisor

916-661-8174 (Cell)

707-266-6844 (Google phone)

715 P Street, MS-40, Sacramento, CA 95814, or

Direct Mail: 273 Peach Tree, VV, CA 95688



CALIFORNIA
ENERGY COMMISSION

November 3, 2022
CEC Application for Certification: Fountain Wind Project
Page 2 of 2

Message

From: Hilliard, Jon@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=27A838BFDA534669858CB8CF13DD12A4-HILLIARD, J]
Sent: 11/17/2022 1:26:01 AM
To: Mudge, Annie [amudge@coxcastle.com]; Caitlin.Barns@stantec.com
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]; Watson, Carol@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=84e32d50c7dc47d89812b468a50090ed-Watson, Car]
Subject: Pre-Construction Compliance Bio Resources Data for Fountain Wind

Hello Annie and Caitlin – it was nice to speak with you during our Teams meeting today. Can you please send electronic files of the additional “pre-construction” analyses that were prepared regarding Bio Resources, that would not be on the County of Shasta’s website? This will help us prepare for any pending application for certification (AFC).

For reference: <https://www.shastacounty.gov/planning/page/fountain-wind-project>

Many thanks,

Jon R. Hilliard, A.I.C.P.
 Biological Resources Supervisor
 916-661-8174 (Cell)
 707-266-6844 (Google phone)
 715 P Street, MS-40, Sacramento, CA 95814, or
 Direct Mail: 273 Peach Tree, VV, CA 95688



CALIFORNIA
 ENERGY COMMISSION

Message

From: Barns, Caitlin [Caitlin.Barns@stantec.com]
Sent: 12/1/2022 10:19:29 PM
To: Hilliard, Jon@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=27a838bfda534669858cb8cf13dd12a4-Hilliard, J]; Mudge, Annie [amudge@coxcastle.com]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]; Watson, Carol@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=84e32d50c7dc47d89812b468a50090ed-Watson, Car]
Subject: RE: Pre-Construction Compliance Bio Resources Data for Fountain Wind

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi John, just wanted to confirm that you received the four studies at the link below. Once you've had a chance to review these and the [other studies available on Shasta County's website](#), we'd like to schedule a call to talk through each study and any concerns you may have on their vintage. Let me know what date and time works for you in the next few weeks.

Best,
 Caitlin

From: Barns, Caitlin
Sent: Wednesday, November 23, 2022 2:37 PM
To: Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>; Mudge, Annie <amudge@coxcastle.com>
Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>; Watson, Carol@Energy <Carol.Watson@energy.ca.gov>
Subject: RE: Pre-Construction Compliance Bio Resources Data for Fountain Wind

Hi John,

The 2021 survey reports are at the link below for your review. They are: California spotted owl surveys, Northern goshawk surveys, rare plant surveys, and California condor risk assessment.

Login Information

FTP link: <https://impsftp.stantec.com>

Login name: s1130151719

Password: 4268949

Expiry Date: 12/7/2022

Thanks!
 Caitlin

Caitlin Barns (she/her)

Senior Biologist

601 SW 2nd Avenue, Suite 1400
 Portland, Oregon 97204
 503-207-4368



From: Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>

Sent: Wednesday, November 16, 2022 5:26 PM

To: Mudge, Annie <amudge@coxcastle.com>; Barns, Caitlin <Caitlin.Barns@stantec.com>

Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>;
Watson, Carol@Energy <Carol.Watson@energy.ca.gov>

Subject: Pre-Construction Compliance Bio Resources Data for Fountain Wind

Hello Annie and Caitlin – it was nice to speak with you during our Teams meeting today. Can you please send electronic files of the additional “pre-construction” analyses that were prepared regarding Bio Resources, that would not be on the County of Shasta’s website? This will help us prepare for any pending application for certification (AFC).

For reference: <https://www.shastacounty.gov/planning/page/fountain-wind-project>

Many thanks,

Jon R. Hilliard, A.I.C.P.

Biological Resources Supervisor

916-661-8174 (Cell)

707-266-6844 (Google phone)

715 P Street, MS-40, Sacramento, CA 95814, or

Direct Mail: 273 Peach Tree, VV, CA 95688



CALIFORNIA
ENERGY COMMISSION

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Attention: Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

Message

From: Lorentzen, Wayne@DTSC [Wayne.Lorentzen@dtsc.ca.gov]
Sent: 1/17/2023 4:31:09 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Koch, Lori@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a3269442b99e4b6eac71ca1ce19d5078-DTSCCLKoch]; Ferouz, Muzhda@DTSC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a5970a2c9e7942c19e64ec8ca6a4b057-DTSCMFerouz]
Subject: RE: Notice of Fountain Wind Project Opt-in application pursuant to MOUs with CEC

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you, Lon, I'm acknowledging receipt here.

Wayne Lorentzen, P.E.
 Permitting Division Chief
 Hazardous Waste Management Program
 916-327-1194
wayne.lorentzen@dtsc.ca.gov
 Department of Toxic Substances Control
 1001 "I" Street, Sacramento, CA 95812-0806
 California Environmental Protection Agency



From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Friday, January 13, 2023 4:16 PM
To: Hawk, Debra@Wildlife <Debra.Hawk@Wildlife.ca.gov>; Bartlett, Tina@Wildlife <Tina.Bartlett@wildlife.ca.gov>; Lorentzen, Wayne@DTSC <Wayne.Lorentzen@dtsc.ca.gov>; Koch, Lori@DTSC <Lori.Koch@dtsc.ca.gov>; Ferouz, Muzhda@DTSC <Muzhda.Ferouz@dtsc.ca.gov>; Crader, Phillip@Waterboards <Phillip.Crader@waterboards.ca.gov>; Snyder, Clint@Waterboards <Clint.Snyder@waterboards.ca.gov>; Coster, Lynn@Waterboards <Lynn.Coster@Waterboards.ca.gov>; Lake, Victoria@Wildlife <Victoria.Lake@Wildlife.ca.gov>; Branch, Alexander(Harilee)@Wildlife <Alexander.Branch@Wildlife.ca.gov>
Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>
Subject: Notice of Fountain Wind Project Opt-in application pursuant to MOUs with CEC

This email serves as notice pursuant to CEC MOUs with CDFW, DTSC, and Waterboards that applicant Fountain Wind, LLC, has requested that the California Energy Commission (CEC) commence data adequacy review of the Fountain Wind Project application. Files associated with the application were uploaded to the project docket (23-OPT-01) from January 3 through January 11, 2023. The associated fee for processing the application has been received by CEC.

Based on the record present in the project docket, the effective filing date is confirmed as January 11, 2023. Pursuant to Cal. Pub. Resources Code § 25545.4(a) CEC will review the application and make a determination

of completeness within 30 days of the submission of the application. CEC will respond to the request for a completeness determination on or before February 11, 2023.

We have a project web page set up, which is here: <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>. The project web page includes a box at the lower right which you can use to subscribe to the list serve and receive email notification when new documents land on the docket.

Here is some relevant information about the format of the application we have received. Fountain Wind had previously undergone extensive CEQA analysis by Shasta County prior to being denied. Rather than doing a traditional application, the applicant has uploaded a very large number of documents, most of which are from that prior CEQA analysis, and has included a crosswalk spreadsheet that tells us where we should look for information responsive to Appendix B. I'm attaching that crosswalk, because it's the key document you need to find information relevant to topic areas of interest to your agency. I'm also attaching the Project Description, since that's always a good starting point for any review. The entire application (along with a few public comments which have already been posted to the docket) can be accessed here: <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=23-OPT-01>

Given the number of individual documents involved, sharing this link to the docket constitutes sharing the application files. Please get in touch with me if you have trouble accessing any particular documents of interest to your agency.

At this time I am also sharing an overview of the schedule for CEC's evaluation of the application (attached). In that schedule I have highlighted in **green** the MOU agency deliverables associated with application completeness review.

CEC is now conducting a "Data Adequacy" review of the application using worksheets that track information required under Appendix B. Those data adequacy worksheets are attached. [FYI—the reason the attached worksheets say "pre-update" is because Appendix B is in the process of being updated but those updates were not finalized prior to Fountain Wind application being filed. The applicant is aware of the proposed updates and will have endeavored to provide the additional information in the "new" Appendix B, but we do not yet have worksheets to track those new/additional requirements since they are not finalized.]

Pursuant to the MOUs, your agency is obligated to provide information supporting CEC's application completeness determination. Here is the relevant language from the CDFW MOU with CEC:

"Within 15 days of receipt of an opt-in application, CDFW will review the opt-in application to determine whether it contains all the information required to assess compliance with applicable California Fish and Wildlife Laws; CDFW will identify and notify Energy Commission staff in writing of any data deficiencies and discuss proposed studies or outstanding data necessary to correct such deficiencies."

The applicable language for Waterboards is:

"Within 15 days of receipt of the application for certification, Water Boards' staff will review the application for certification to determine whether it contains all the information required to apply for the following permits, if applicable: Waste Discharge Requirements, NPDES Permits, and/or a Section 401 Certification or Waiver from the Regional Board; and Water Boards' staff will identify and notify Energy Commission staff of any data deficiencies."

The applicable language for DTSC is:

"DTSC staff will make best efforts to review the application of certification within 15 to 25 days to determine whether it contains all the information required for an assessment of the following and whether applicable: waste generation and storage standards, site remediation, and waste reduction requirements; DTSC staff will identify and notify Energy Commission staff of any data deficiencies."

Please fill in the relevant portions of the Data Adequacy worksheets which correspond to the issues of interest to your agency and your permitting authorities. This information will be incorporated into the information shared with the applicant when we respond to their request for a completeness determination. In addition, please provide any other information consistent with the language from the MOUs copied above. **For CDFW and Waterboards, this information should be provided in 15 days per the MOUs, which falls on Saturday January 28, therefore a response by Friday January 27 is appreciated. For DTSC this information should be provided in 15-25 days per the MOU, which ranges from Saturday January 28 to Tuesday Feb. 7.**

We appreciate your timely responses, and look forward to coordinating with you as the evaluation moves forward. I will follow up with an additional email next week regarding development of Data Requests to gather additional information needed for CEC's analysis.

Lon Payne--Project Manager
California Energy Commission

RESOLUTION NO. 2021-010

**A RESOLUTION OF THE SHASTA COUNTY PLANNING COMMISSION
DENYING USE PERMIT 16-007 (FOUNTAIN WIND, LLC)**

WHEREAS, the Planning Commission of the County of Shasta has considered Use Permit 16-007 (hereinafter the “Project”), filed by Fountain Wind, LLC for a renewable wind energy generation development consisting of the construction, operation, maintenance, and ultimately the decommissioning of up to 71 wind turbines and associated transformers together with associated infrastructure and ancillary facilities in unincorporated Shasta County on approximately 4,464 acres of a 29,500-acre leasehold comprised of 76 Shasta County Assessor’s parcels operated as managed forest timberlands located approximately one mile west of the existing Hatchet Ridge Wind Project, 6 miles west of Burney, CA and 35 miles northeast of Redding, CA, in accordance with Section 17.92.020 of the Shasta County Ordinance Code, Title 17, Zoning; and

WHEREAS, said use permit was referred to various affected public and private agencies, County departments, and referral agencies for review and comments; and

WHEREAS, at the direction of the Shasta County Environmental Review Officer an Environmental Impact Report (EIR) examining the impacts of the Project has been prepared in compliance with the California Environmental Quality Act (CEQA); and

WHEREAS, the County of Shasta Planning Commission has received and reviewed the proposed use permit along with all draft, final, and supporting documents of the EIR, in addition to a report from the Planning Division; and

WHEREAS, a duly noticed public hearing on the Final EIR and Project was held on June 22, 2021, at which time all interested persons were given an opportunity to comment which were considered in accordance with the modified procedures for the conduct of the Planning Commission resulting from the current COVID-19 pandemic and in compliance with orders and recommendations of federal, state and local authorities and those comments were considered by the Planning Commission; and

WHEREAS, the Shasta County Planning Commission received testimony regarding the following detrimental impacts of the proposed project: impacts to aesthetics; potential increased fire danger; impediments to fire fighting efforts; damage to wildlife; damage to natural resources; and damage to cultural and tribal resources; and

WHEREAS, the Shasta County Planning Commission has considered public comments and a report from the Planning Division.

NOW, THEREFORE, BE IT RESOLVED that the Shasta County Planning Commission:

1. Makes the following use permit finding: The establishment, operation and maintenance of the subject use, under the circumstances of the particular case will be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the

Resolution No. 2021-010

Page 2

neighborhood or will be detrimental or injurious to property or improvements in the neighborhood or to the general welfare of the County.

2. Denies Use Permit 16-007.

DULY PASSED AND ADOPTED this 22nd day of June, 2021, by the Shasta County Planning Commission by the following vote:

AYES: WALLNER, MACLEAN, CHAPIN, KERNS, WALGAMUTH

NOES:

ABSENT:

ABSTAIN:

RECUSE:



PATRICK WALLNER, Chair
Planning Commission
County of Shasta, State of California

ATTEST:



PAUL A. HELLMAN, Secretary
Planning Commission
County of Shasta, State of California

Message

From: Barns, Caitlin [Caitlin.Barns@stantec.com]
Sent: 11/16/2022 9:40:48 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]
Subject: ConnectGen PowerPoint
Attachments: ConnectGen_Fountain Wind_CEC Presentation.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon,

Thanks for a great meeting today! See attached for ConnectGen's powerpoint.

Thanks,
Caitlin

Caitlin Barns (she/her)
Senior Biologist
601 SW 2nd Avenue, Suite 1400
Portland, Oregon 97204
503-207-4368



The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

Memorandum of Understanding (MOU)
Between

The Staff of the California Energy Resources Conservation and Development
Commission (Energy Commission)

and

The California Department of Fish and Wildlife (CDFW)

Regarding

Assembly Bill No. 205 (AB 205), Chapter 6.2, Certification of Nonfossil-Fueled
Powerplants, Energy Storage Facilities, and Related Facilities

I. PURPOSE:

The purpose of this MOU is to establish the plan required by subdivision (a) of Public Resources Code section 25545.5, addressing certification pursuant to Chapter 6.2 of Division 15 of the Public Resources Code. This plan is designed to ensure timely and effective coordination between the Energy Commission and CDFW with respect to any proposed Energy Commission findings and actions to authorize the take of endangered, threatened, and candidate species pursuant to the California Endangered Species Act (Chapter 1.5 (commencing with section 2050) of Division 3 of the Fish and Game Code) (CESA), impacts to fish and wildlife resources pursuant to Chapter 6 (commencing with section 1600) of Division 2 of the Fish and Game Code (section 1600), and other potential impacts to fish, wildlife, and plant species and the habitats upon which they depend. In addition, this plan includes a process to ensure that all such take and impacts are consistent with section 1600, CESA, and other provisions of the Fish and Game Code and Title 14 of the California Code of Regulations, including, but not limited to: the Native Plant Protection Act, Fish and Game Code section 1900 et seq., the statutes governing fully protected species, Fish and Game Code sections 3511, 4700, 5050, and 5515; and statutes governing take of nests, eggs, raptors, and migratory birds, Fish and Game Code sections 3503, 3503.5, and 3513 (collectively, "California Fish and Wildlife Laws").

II. WHEREAS:

- A. Chapter 6.2 of Division 15 of the Public Resources Code establishes a new, opt-in certification process for the following types of facilities (hereinafter referred to as "opt-in facilities" or "projects"):

1. Solar photovoltaic or terrestrial wind electrical generation powerplants with a generating capacity of 50 megawatts or more and appurtenant facilities thereto;
 2. A stationary electrical generating powerplant using any source of thermal energy, with a generating capacity of 50 megawatts or more, excluding any powerplant that burns, uses, or relies on fossil or nuclear fuels;
 3. An energy storage system as defined in Public Utilities Code section 2835 that is capable of storing 200 megawatt-hours or more of electrical energy;
 4. An electric transmission line carrying electric power from a facility described in paragraph (1), (2), or (3), above, that is located in the state to a point of junction with any interconnected electrical transmission system; or
 5. A facility for the manufacture, production, or assembly of energy storage systems or their components, wind systems or their components, solar photovoltaic systems or their components, or specialized products, components, or systems that are integral to renewable energy or energy storage technologies with a capital investment of at least \$250,000,000 over a period of 5 years.
- B. A person proposing to construct opt-in facilities, may, no later than June 30, 2029, file an application for certification with the Energy Commission (opt-in application). The Energy Commission must review the opt-in application and determine whether to issue the certification within 270 days¹ after the opt-in application is deemed complete, or as soon as practicable thereafter. The Energy Commission is the lead agency for opt-in facilities under the California Environmental Quality Act (CEQA), Public Resources Code section 21000 et seq.
- C. CDFW is responsible for managing California's fish, wildlife, and plant resources, and the habitats upon which they depend, for their ecological values and for their use and enjoyment by the public. CDFW issues permits and other approvals for take of, and impacts to, fish, wildlife, plants, and the habitats upon which they depend. These CDFW measures and approvals typically contain provisions to avoid, minimize, and mitigate impacts to the aforementioned resources.
- D. CDFW, as a trustee agency under CEQA, is responsible for protecting, preserving, and managing the State's biological resources, including fish, wildlife, plants, and the habitats upon which they depend. CDFW accomplishes these objectives, in part, through consultation with CEQA lead

¹ All references herein to "days" shall be construed as calendar days.

agencies on biological resource impacts and avoidance, minimization, and mitigation measures, including, but not limited to, those that may be required pursuant to CESA and section 1600.

- E. CDFW enforces the Fish and Game Code, including CESA and section 1600. With respect to certificates issued by the Energy Commission pursuant to Chapter 6.2 of Division 15 of the Public Resources Code, the Energy Commission has the authority to enforce any conditions set forth in the certificate, and CDFW has independent authority to enforce any violations of CESA, section 1600, other provisions of the Fish and Game Code, and provisions of Title 14 of the California Code of Regulations.
- F. With some exceptions not applicable here, the Energy Commission's licensing authority for opt-in facilities pursuant to Public Resources Code section 25545.1, subdivision (a) shall be in lieu of any permit, certificate, or similar document required by any state, local, or regional agency, or federal agency to the extent permitted by federal law, for the use of the site and related facilities, and shall supersede any applicable statute, ordinance, or regulation of any state, local, or regional agency, or federal agency to the extent permitted by federal law. Therefore, this plan includes a process to ensure that all such take and impacts are consistent with applicable California Fish and Wildlife Laws.
- G. It is the policy of the state, as expressed through Fish and Game Code section 2055, that all state agencies, boards, and commissions shall seek to conserve endangered species and threatened species and shall utilize their authority in furtherance of the purposes of CESA.
- H. The staff of the Energy Commission and CDFW wish to coordinate their review of opt-in facilities to identify and analyze project-related impacts to fish, wildlife, and plant species and the habitats upon which they depend and to develop avoidance, minimization, and mitigation measures for inclusion, as appropriate, as conditions of certification for opt-in facilities to ensure compliance with CEQA and applicable California Fish and Wildlife Laws. The staff of the Energy Commission and CDFW are committed to efficiently meeting their respective regulatory responsibilities through the timely exchange of project information and analyses, maintenance of clear lines of communication among the agencies' staffs, and completion of their review and analyses within the time limitations for a final decision on an opt-in application. The staff of the Energy Commission and CDFW will consult as needed after issuance of a certificate regarding an opt-in facility's compliance with applicable California Fish and Wildlife Laws and related conditions of certification.

III. THEREFORE:

A. Regarding duties and responsibilities regarding pre-filing communication, the staff of the Energy Commission and CDFW agree to the following:

1. Energy Commission staff will provide timely notification to the appropriate CDFW regional staff, within the CDFW region where the project will be sited, of pre-filing contacts by potential applicants for opt-in facilities and shall forward any information provided in those contacts by potential applicants as soon as practicable. A map of the CDFW regions is attached hereto as Attachment A. To ensure effective notification, CDFW will provide Energy Commission staff with a list, updated from time to time as necessary, of appropriate regional staff and their contact information. All references herein related to performance of obligations by CDFW will be completed by the appropriate CDFW regional staff identified in the aforementioned list. All references herein related to obligations for coordination or communication by Energy Commission staff with CDFW will be directed to appropriate CDFW regional staff identified in the aforementioned list.
2. Upon receipt of pre-filing project information sent by Energy Commission staff, CDFW will timely respond acknowledging such receipt.
3. Energy Commission staff will invite CDFW to attend the pre-filing consultation meeting and any other relevant meetings with potential project applicants relating to a proposed project to promote early identification of issues, regulatory requirements, and information needed for a complete evaluation by Energy Commission staff and CDFW regarding the proposed project. CDFW may, to the extent feasible and appropriate, participate in such meetings. CDFW will inform CEC staff, in time for the pre-filing consultation meeting, of any additional relevant information to be included in the application pursuant to Title 20 of the California Code of Regulations section 1877(a) and Fish and Game section 1602(a)(1)(F). Energy Commission staff will transmit that information to the applicant in a timely manner.
4. CDFW will notify Energy Commission staff whenever they are contacted by potential opt-in facility applicants seeking information about the nature and scope of studies required for applicable CDFW permit(s) and/or mitigation measures.
5. CDFW will invite Energy Commission staff to attend any meetings held in conjunction with subsection A.4. above to promote early disclosure

of potential projects. Energy Commission staff will, to the extent feasible, participate in such meetings.

B. Regarding duties and responsibilities to expedite regulatory review, the staff of the Energy Commission and CDFW agree:

1. No later than 3 days after receipt of an opt-in application, Energy Commission staff will send an electronic copy of any opt-in application and any other pertinent documents to the appropriate CDFW regional staff, within the CDFW region where the project will be sited, that are identified in the list provided by CDFW under section III.A.1.
2. No later than 3 days following receipt of an opt-in application, Energy Commission staff will send CDFW an electronic copy of the project schedule in effect for that siting case, such as the schedule included in Attachment B. The project schedule shall identify the various events and deadlines where input from or participation by CDFW is requested. CDFW shall endeavor to participate in the applicable events and provide timely comments and documents within the timeframe of the Energy Commission's proceeding.
3. Within 15 days of receipt of an opt-in application, CDFW will review the opt-in application to determine whether it contains all the information required to assess compliance with applicable California Fish and Wildlife Laws; CDFW will identify and notify Energy Commission staff in writing of any data deficiencies and discuss proposed studies or outstanding data necessary to correct such deficiencies. Energy Commission staff will ensure that reasonable additional information requests by CDFW for the purposes of assessing compliance with applicable California Fish and Wildlife Laws are transmitted to the applicant. Energy Commission staff will confer with CDFW as to the sufficiency of information received from the applicant in response to relevant additional information requests prior to Energy Commission acknowledging acceptance of the information.
4. During the Energy Commission's preparation of a draft environmental impact report (Draft EIR) on a proposed project, as soon as possible, but within 30 days of receiving any additional information requested from an applicant pursuant to Public Resources Code section 25545.4(d) or by a date which will be mutually agreed upon by both agencies following Energy Commission staff's transmission of the opt-in application and project schedule, CDFW will provide Energy Commission staff with written recommended avoidance, minimization, and mitigation measures to ensure compliance with applicable

California Fish and Wildlife Laws and with CEQA. CDFW shall use its best efforts to meet a time schedule that will allow Energy Commission staff to include CDFW's recommended conditions within the Draft EIR. Energy Commission staff and CDFW will meet and confer as necessary during the development of the Draft EIR in furtherance of the goals of this subsection.


5. During the development of the Draft EIR, CDFW may need additional information from the applicant to develop appropriate avoidance, minimization, and mitigation measures. Energy Commission staff will ensure that all reasonable additional information requests by CDFW are transmitted to the applicant in a timely manner.
6. During the public comment period on a proposed project's Draft EIR, Energy Commission staff will electronically transmit to CDFW, for its review and input, any public comments related to potential impacts to fish, wildlife, and plant species and the habitats upon which they depend as well as lakes, streams, and their hydrology. Energy Commission staff will invite CDFW to attend and participate in any Public Meetings on a proposed project's Draft EIR. CDFW may, to the extent feasible and appropriate, participate in any such meetings, via written comments or providing staff participation.
7. Energy Commission staff will notify CDFW in a timely manner of the completion and circulation of the Draft EIR for public comment.
8. Energy Commission staff will notify CDFW in a timely manner of its completion of the Final EIR on a proposed project. Energy Commission staff will also notify CDFW of when a proposed project will be scheduled for review and decision at an Energy Commission Business Meeting. If the Energy Commission approves a proposed project, Energy Commission staff will notify CDFW and electronically transmit a copy of the final certificate within 3 days of the project's approval.
9. Energy Commission staff will require compliance with applicable California Fish and Wildlife Laws that are incorporated as conditions of certification for opt-in facilities. Energy Commission staff will consider CDFW's recommended avoidance, minimization, and mitigation measures and make good faith efforts to incorporate those into the appropriate sections of the Draft and Final EIRs and the project certification.

C. Regarding duties and responsibilities related to disagreement resolution, the staff of the Energy Commission and CDFW agree:


1. Where the staff of the Energy Commission and CDFW disagree on any proposed conditions of certification, Energy Commission staff will coordinate meetings to discuss divergent positions regarding issues in dispute and encourage meaningful resolution.
2. If resolution is not achieved within 14 days after the initial meeting convened to resolve a dispute in accordance with subsection 1 of this section, the Director for the Energy Commission's Siting, Transmission, and Environmental Protection (STEP) Division and CDFW's Deputy Director of Ecosystem Conservation Division will, along with their respective technical staff and legal counsel, meet and confer to resolve the disagreement.
3. In the event resolution is not achieved by the process in subsection 2, above, the Energy Commission Executive Director and CDFW Director will, along with their respective technical staff and legal counsel, meet and confer to resolve the disagreement.

IV. AMENDMENTS

This MOU may be amended by mutual agreement of the staffs of the Energy Commission and CDFW. The MOU shall remain in effect until any party provides notice to the other that they are withdrawing from the MOU.

By: 
Charlton H. Bonham, Director
California Department of Fish and Wildlife

Date: 9/27/2022

By: 
Drew Bohan, Executive Director
California Energy Commission

Date: September 30, 2022

California Energy Resources Conservation and Development Commission (Energy
Commission)

Public Resources Code section 25545.5 Coordination Plan Developed in Consultation
with

The California State Water Resources Control Board and the California Regional Water
Quality Control Boards

Regarding

Assembly Bill No. 205 (AB 205), Chapter 6.2, Certification of Nonfossil-Fueled
Powerplants, Energy Storage Facilities, and Related Facilities

I. PURPOSE:

The purpose of this plan is to set forth the consultation process between the Energy Commission and the California State Water Resources Control Board and the California Regional Water Quality Control Boards (collectively, the Water Boards) as required by subdivision (b) of Public Resources Code section 25545.5, addressing certification pursuant to Chapter 6.2 of Division 15 of the Public Resources Code. This plan is designed to ensure timely and effective coordination between the Energy Commission, the State Water Board, and the applicable Regional Water Board with respect to any proposed Energy Commission findings and actions related to discharges of waste that could affect the quality of waters of the state and ensures that all discharges are consistent with all applicable provisions of Division 7 of the Water Code.

II. AUTHORITIES:

- A. Chapter 6.2 of Division 15 of the Public Resources Code establishes a new certification process for solar photovoltaic, terrestrial wind electrical generation powerplants, or thermal powerplants that do not use fossil or nuclear fuels, with a generating capacity of 50 megawatts or more; an energy storage system capable of storing 200 megawatt-hours or more of electricity; an electric transmission line from those generating or storage facilities to a point of junction with an interconnected electrical transmission system; or a facility for the manufacture, production, or assembly of energy storage systems or their components, wind systems or their components, solar photovoltaic systems or their components, or specialized products, components, or systems that are integral to renewable energy or energy storage technologies with a capital

investment of at least \$250,000,000 over a period of 5 years. These facilities are hereinafter referred to as "opt-in facilities" or "projects."

- B. A person proposing to construct opt-in facilities, may, no later than June 30, 2029, file an application for certification with the Energy Commission. The Energy Commission must review the application and determine whether to issue the certification within 270 days after the application is deemed complete, or as soon as practicable thereafter. The Energy Commission is the lead agency for opt-in facilities under the California Environmental Quality Act (CEQA).
- C. The Water Boards are responsible for protecting the quality of the state's waters through the control of waste discharges to land or water. The Water Boards accomplish these objectives, in part, through implementation of the Federal Clean Water Act (33 United States Code section 1251 et seq.) and the Porter-Cologne Water Quality Control Act (California Water Code section 13000 et seq.).
- D. The Energy Commission's licensing authority for opt-in facilities pursuant to Public Resources Code section 25545.1, subdivision (a) does not supersede the authority of the Water Boards. Public Resources Code section 25545.5, subdivision (b) directs the Energy Commission to develop a plan in coordination with the State Water Board that ensures timely and effective consultation between the staffs of the Energy Commission, the State Water Board, and the applicable Regional Water Board with respect to any proposed Energy Commission findings and actions related to discharges of waste that could affect the quality of waters of the state and to ensure that all discharges are consistent with all applicable provisions of Division 7 of the Water Code.
- E. The staffs of the Energy Commission and the Water Boards agree to use their best efforts to coordinate their review of opt-in facilities to identify and analyze project-related impacts and mitigation measures related to the discharge of waste that may affect the waters of the state. While the terms set forth in this plan are non-binding, the staffs of the Energy Commission and the Water Boards are committed to the timely exchange of project information and analyses, maintenance of clear lines of communication among the agencies' staffs, and best efforts to complete review and analyses within the applicable time limitations for final decisions on an application for certification.

III. IMPLEMENTATION:

A. Regarding duties and responsibilities related to pre-filing communication, the staffs of the Energy Commission and the Water Boards agree to the following:

1. The Energy Commission staff will timely notify the appropriate Water Boards' managers, identified in Attachment A, of pre-filing contacts by potential applicants for opt-in facilities and shall forward any information provided in those contacts by potential applicants as soon as practicable. Energy Commission managers shall also identify in writing the Energy Commission staff assigned to work on each opt-in facility as soon as practicable.
2. Upon receipt of pre-filing project information sent by the Energy Commission staff, the Water Boards' managers will timely respond acknowledging such receipt. The Water Boards' managers will also inform the Energy Commission in writing as to which staff will be assigned to review and comment on the project.
3. The Energy Commission staff will invite the Water Boards' staff to attend any meetings with potential project applicants relating to the proposed project to promote early identification of issues, regulatory requirements and information needed for a complete evaluation of the proposed project application by the Energy Commission and the Water Boards. The Water Boards' staff may, to the extent feasible and appropriate, participate in such meetings.
4. The Water Boards' staff will notify Energy Commission managers, identified in Attachment A, whenever they are contacted by potential opt-in facility applicants seeking information about the nature and scope of studies required for National Pollutant Discharge Elimination System (NPDES) Permits, Waste Discharge Requirements, Section 401 Certification or Waiver, or site remediation activities.
5. The Water Boards' staff will invite Energy Commission staff to attend any meetings held in conjunction with Section A.4. above to promote early disclosure of potential projects. Energy Commission staff will, to the extent feasible and appropriate, participate in such meetings.
6. Attachment A contains a list of the managers at the Energy Commission, State Water Board, and Regional Water Boards who will assign staff to process project applications from opt-in facilities. Any listed agency may update Attachment A via email to the contacts listed for each of the other agencies. Staff assigned to work on specific

projects will be identified in accordance with subsections 1 and 2 of this section.

B. Regarding duties and responsibilities to expedite regulatory review, the staffs of the Energy Commission and the Water Boards will make best efforts to apply the following protocols:

1. No later than 3 days after receipt of an application, the Energy Commission staff will send an electronic copy of any application for certification for an opt-in facility and any other pertinent documents to the appropriate Water Boards' staff.
2. As soon as practicable, but no later than 3 days following the receipt of the application for certification, the Energy Commission staff will send Water Boards' staff the project schedule in effect for that siting case, such as the schedule included in Attachment B. The project schedule shall identify the various events and deadlines where input from or participation by the Water Boards is requested. Water Boards' staff shall endeavor to participate in the applicable events and meetings and provide timely comments and documents within the timeframe of the Energy Commission's proceeding.
3. Within 15 days of receipt of the application for certification, Water Boards' staff will review the application for certification to determine whether it contains all the information required to apply for the following permits, if applicable: Waste Discharge Requirements, NPDES Permits, and/or a Section 401 Certification or Waiver from the Regional Board; and Water Boards' staff will identify and notify Energy Commission staff of any data deficiencies.
4. During the Energy Commission's preparation of a draft environmental impact report (Draft EIR) on a proposed project, Water Boards' staff will consult with Energy Commission staff regarding potential impacts to waters of the state and will provide Energy Commission staff with their projected conditions for the applicable NPDES Permits, Waste Discharge Requirements, and/or Section 401 Certification or Waiver according to the project schedule. The Water Boards' staff shall use their best efforts to meet a time schedule that will allow the Energy Commission staff to include the Water Boards' recommended conditions for the applicable NPDES Permit(s), Waste Discharge Requirements, and/or Section 401 Certification or Waiver within the Draft EIR.
5. During the public comment period on a proposed project's Draft EIR, Energy Commission staff will transmit public comments related to

discharges of waste that could affect the quality of waters of the state to the Water Boards for further review and response as necessary. Energy Commission staff will invite Water Boards' staff to attend and participate in any Public Meetings on a proposed project's Draft EIR. Water Boards' staff may, to the extent feasible and appropriate, participate in any such meetings.

6. Water Boards' staff will prepare a draft NPDES Permit (or permits), Waste Discharge Requirements, and/or Section 401 Certification or Waiver according to a time schedule that will be provided to the Energy Commission staff. The Water Boards' staff shall use its best efforts to meet a time schedule that will allow the Energy Commission staff to include the draft permit, discharge requirements, and/or certification or waiver within the Draft EIR.
7. Energy Commission staff will inform the Water Boards' staff of its completion of the final environmental impact report (Final EIR) on a proposed project. Energy Commission staff will also inform Water Boards' staff of when the proposed project will be scheduled for review and decision at an Energy Commission Business Meeting. If the Energy Commission approves a proposed project, Energy Commission staff will inform Water Boards' staff within 3 days of the project's approval.
8. Energy Commission staff will recommend that compliance with the permit(s) and/or waste discharge requirements be made a condition of certification by the Energy Commission.
9. The Water Boards recognize that they are required by Public Resources Code section 25545.5, subdivision (d)(2), to take final action on the opt-in facility within 90 days after the certification by the Energy Commission of the environmental impact report, provided that the applicant has filed a complete application with the applicable Water Board prior to certification of the Final EIR.

C. Regarding duties and responsibilities related to disagreement resolution, the staffs of the Energy Commission and the Water Boards agree:

1. Where the staffs of the Energy Commission and Water Boards disagree on any proposed conditions of certification, Energy Commission staff will coordinate meetings to discuss issues in dispute and encourage meaningful resolution.
2. If resolution is not achieved within 14 days after the initial meeting convened to resolve a dispute in accordance with subsection 1 of this section, the Director for the Energy Commission's Siting, Transmission, and Environmental Protection (STEP) Division and the Water Boards'

Deputy Director or Assistant Executive Officer, as applicable, will, along with their respective technical staff and legal counsel, meet and confer to resolve the disagreement.

3. In the event resolution is not achieved by the process in subsection 2, above, the Energy Commission Executive Director and Water Boards' Executive Director or Executive Officer will, along with their respective technical staff and legal counsel, meet and confer to resolve the disagreement.

IV. AMENDMENTS

This plan may be amended at any time when new information develops or as requested by the Energy Commission or Water Boards. The plan shall otherwise remain in effect.

Memorandum of Understanding (MOU)
Between

The Staff of the California Energy Resources Conservation and Development
Commission (Energy Commission)

and

The Staff of the Department of Toxic Substances Control (DTSC)

Regarding

Assembly Bill No. 205 (AB 205), Chapter 6.2, Certification of Nonfossil-Fueled
Powerplants, Energy Storage Facilities, and Related Facilities

I. PURPOSE:

The purpose of this MOU is to establish the plan required by subdivision (c) of Public Resources Code section 25545.5, addressing certification pursuant to Chapter 6.2 of Division 15 of the Public Resources Code. This plan ensures timely and effective coordination between the Energy Commission and DTSC with respect to any proposed Energy Commission findings and actions related to hazardous waste control laws.

II. WHEREAS:

- A. Chapter 6.2 of Division 15 of the Public Resources Code establishes a new certification process for solar photovoltaic, terrestrial wind electrical generation powerplants, or thermal powerplants that do not use fossil or nuclear fuels, with a generating capacity of 50 megawatts or more; an energy storage system capable of storing 200 megawatt-hours or more of electricity; an electric transmission line from those generating or storage facilities to a point of junction with an interconnected electrical transmission system; or a facility for the manufacture, production, or assembly of energy storage systems or their components, wind systems or their components, solar photovoltaic systems or their components, or specialized products, components, or systems that are integral to renewable energy or energy storage technologies with a capital investment of at least \$250,000,000 over a period of 5 years. These facilities are hereinafter referred to as "opt-in facilities" or "projects."
- B. A person proposing to construct opt-in facilities, may, no later than June 30, 2029, file an application for certification with the Energy Commission. The Energy Commission must review the application and determine whether to issue the certification within 270 days after the application is deemed

complete, or as soon as practicable thereafter. The Energy Commission is the lead agency for opt-in facilities under the California Environmental Quality Act (CEQA).

- C. The DTSC is responsible for the protection and enhancement of public health and the environment by regulating all aspects of the generation and management of hazardous substances, remediation of contaminated sites, and promoting reduction of such substances from industrial activities. DTSC accomplishes these objectives through implementation of the State Hazardous Waste Control Law (Health and Safety Code, Division 20, Chapter 6.5, section 25100 et seq.), the Hazardous Substances Account Act (Health and Safety Code, Division 20, Chapter 6.8, section 25300 et seq.), DTSC regulations (see, e.g., California Code of Regulations, Title 22, Division 4.5, sections 66250 et seq., 66262.10-66262.89, 66263.10-66263.50, 66270.1-66270.73), and other state and federal laws and regulations.
- D. The Energy Commission's licensing authority for opt-in facilities pursuant to Public Resources Code section 25545.1, subdivision (a) does not supersede the authority of the DTSC with respect to facilities identified in section 25545, subdivision (b)(4) (hereinafter referred to as Opt-in Manufacturing Facilities).
- E. Pursuant to Public Resources Code, section 25545.1, subdivision (a), the Energy Commission's licensing authority for opt-in facilities under section 25545, subdivisions (b)(1)-(3) and (5) (hereinafter referred to as Opt-in Generation and Storage Facilities) shall be in lieu of any permit, certificate, or similar document required by any state, local, or regional agency, or federal agency to the extent permitted by federal law, for the use of the site and related facilities, and shall supersede any applicable statute, ordinance, or regulation of any state, local, or regional agency, or federal agency to the extent permitted by federal law.
- F. Public Resources Code section 25545.5, subdivision (c) directs the Energy Commission to develop a plan in coordination with the DTSC that ensures timely and effective consultation between the commission and the DTSC with respect to any proposed Energy Commission or DTSC findings and actions related to hazardous waste control laws.
- G. The staffs of the Energy Commission and the DTSC wish to coordinate their review of opt-in facilities to identify and analyze project-related impacts and mitigation measures related to the generation and management of hazardous substances, remediation of contaminated sites, and promoting reduction of such substances from industrial activities. The staffs of the Energy Commission and the DTSC are committed to the timely exchange of project information and analyses, maintenance of clear lines of communication among the agencies' staffs, and completion of their review and analyses

within the time limitations for a final decision on an application for certification.

III. THEREFORE:

A. Regarding duties and responsibilities related to pre-filing communication, the staffs of the Energy Commission and DTSC agree to the following:

1. The Energy Commission staff will timely notify appropriate DTSC staff of pre-filing contacts by potential applicants for Opt-in Generation and Storage Facilities and shall forward any information provided in those contacts by potential applicants as soon as practicable.
2. Upon receipt of pre-filing project information sent by the Energy Commission staff, the DTSC staff will timely respond acknowledging such receipt. The DTSC staff will also inform the Energy Commission as to which staff will be assigned to review and comment on the project.
3. The Energy Commission staff will invite DTSC staff to attend any meetings with potential project applicants relating to the proposed project to promote early disclosure of the potential need for studies related to the proposed project and associated waste generation and storage standards, site remediation activities, and waste reduction requirements. The DTSC staff may, to the extent feasible and appropriate, participate in such meetings.
4. The DTSC staff will notify Energy Commission staff whenever they are contacted by potential Opt-in Manufacturing Facilities applicants seeking information about the nature and scope of studies or workplans potentially required for waste generation and storage standards, site remediation activities, and waste reduction requirements associated with proposed opt-in facilities. In the case where DTSC already has remediation actions underway at a proposed project site, DTSC Site Mitigation and Restoration Program staff will work with Energy Commission staff to provide the necessary information on the remediation activities so any potential environmental impact can be characterized and analyzed in the EIR.
5. The DTSC staff will invite Energy Commission staff to attend any meetings held in conjunction with section A.4 above to promote early disclosure of potential projects. Energy Commission staff will, to the extent feasible, participate in such meetings.

B. Regarding duties and responsibilities to expedite regulatory review of Opt-in Generation and Storage Facilities, the staffs of the Energy Commission and DTSC agree:

1. No later than 3 days after receipt of an application, the Energy Commission staff will send electronic copies of any application for certification for an Opt-in Generation and Storage Facility and any other pertinent documents to the staff of the DTSC. If site remediation is required, Energy Commission staff will request the applicant send all related documents simultaneously to both agencies.
2. As soon as practicable, but no later than 3 days following the receipt of the application for certification, the Energy Commission staff will send to the appropriate DTSC staff the project schedule in effect for that siting case, such as the schedule included in Attachment A. The project schedule shall identify the various events and deadlines where input from or participation by DTSC staff is requested. DTSC staff shall endeavor to participate in the applicable events and provide timely comments and documents within the timeframe of the Energy Commission's proceeding.
3. DTSC staff will make best efforts to review the application of certification within 15 to 25 days to determine whether it contains all the information required for an assessment of the following and whether applicable: waste generation and storage standards, site remediation, and waste reduction requirements; DTSC staff will identify and notify Energy Commission staff of any data deficiencies.
4. During the Energy Commission's preparation of a draft environmental impact report (Draft EIR) on a proposed project, DTSC staff will provide Energy Commission staff with any applicable waste generation and storage standards, conditions for site remediation activities, and waste reduction requirements according to the project schedule. The DTSC staff shall use its best efforts to meet a time schedule that will allow the Energy Commission staff to include an assessment of the DTSC's waste generation and storage standards, conditions for site remediation activities, and waste reduction requirements within the Draft EIR.
5. Energy Commission staff will prepare draft conditions of certification containing any applicable waste generation and storage standards, conditions for site remediation activities, and waste reduction requirements for Opt-in Generation and Storage Facilities according to a time schedule that they will provide to DTSC staff. The Energy Commission staff shall use its best efforts to meet a time schedule that

will allow the DTSC staff to include their recommendations regarding the draft conditions of certification for waste generation and storage standards, conditions for site remediation activities, and waste reduction requirements within the Draft EIR. The Energy Commission staff will share the draft conditions of certification containing any applicable waste generation and storage standards, site remediation activities, and waste reduction requirements with DTSC prior to the public comment period of a proposed project's Draft EIR.

6. During the public comment period on a proposed project's Draft EIR, Energy Commission staff will transmit any public comments related to hazardous waste generation and storage, potential site remediation activities, and waste reduction requirements to DTSC for further review and response as necessary. Energy Commission staff will invite DTSC staff to attend and participate in any Public Meetings on a proposed project's Draft EIR. DTSC staff may, to the extent feasible and appropriate, participate in any such meetings.
7. Energy Commission staff will inform DTSC staff of its completion of the final environmental impact report (Final EIR) on a proposed project and final conditions of certification incorporating any applicable waste generation and storage standards, conditions for site remediation activities, and waste reduction requirements. Energy Commission staff will also inform DTSC staff of when a proposed project will be scheduled for review and decision at an Energy Commission Business Meeting. If the Energy Commission approves a proposed project, Energy Commission staff will inform DTSC staff within 3 days of the project's approval.
8. Energy Commission staff may require compliance with applicable waste generation and storage standards, site remediation Cleanup Decision Document requirements, and waste reduction requirements as conditions of certification for Opt-in Generation and Storage Facilities.

C. Regarding duties and responsibilities to expedite regulatory review of Opt-in Manufacturing Facilities, the staffs of the Energy Commission and DTSC agree:

1. No later than 3 days after receipt of an application, the Energy Commission staff will send electronic copies of any application for certification for an Opt-in Manufacturing Facility and any other pertinent documents to the staff of the DTSC. If site remediation is required, Energy Commission staff will request the applicant to send all related documents simultaneously to both agencies.

2. As soon as practicable, but no later than 3 days following the receipt of the application for certification, the Energy Commission staff will send to the appropriate DTSC staff the project schedule in effect for that siting case, such as the schedule included in Attachment A. The project schedule shall identify the various events and deadlines where input from or participation by DTSC staff is requested. DTSC staff shall endeavor to participate in the applicable events and provide timely comments and documents within the timeframe of the Energy Commission's proceeding.
3. DTSC staff will make best efforts to review the application for certification within 15 to 25 days to determine whether it contains all the information required for an assessment of the following and whether applicable: waste generation and storage standards, site remediation activities, and waste reduction requirements; DTSC staff will identify and notify Energy Commission staff of any data deficiencies.
4. During the Energy Commission's preparation of a draft environmental impact report (Draft EIR) on an Opt-in Manufacturing Facility, DTSC staff will prepare any applicable draft waste generation and storage standards, conditions for site remediation activities, and waste reduction requirements for Opt-in Manufacturing Facilities according to a time schedule that DTSC staff will provide to the Energy Commission staff. The DTSC staff shall use its best efforts to meet a time schedule that will allow the Energy Commission staff to include an analysis of the draft standards, activities, and requirements and any required conditions of certification for Opt-in Manufacturing Facilities within the Draft EIR.
5. During the public comment period on a proposed project's Draft EIR, Energy Commission staff will transmit any public comments related to hazardous waste generation and storage, potential site remediation activities, and waste reduction requirements to DTSC for further review and response as necessary. Energy Commission staff will invite DTSC staff to attend and participate in any Public Meetings on a proposed project's Draft EIR. DTSC staff may, to the extent feasible and appropriate, participate in any such meetings.
6. Energy Commission staff will inform DTSC staff of its completion of the final environmental impact report (Final EIR) on a proposed project. Energy Commission staff will also inform DTSC staff of when a proposed project will be scheduled for review and decision at an Energy Commission Business Meeting. If the Energy Commission

approves a proposed project, Energy Commission staff will inform DTSC staff within 3 days of the project's approval.


7. If applicable, DTSC staff will take final action on Opt-in Manufacturing Facilities within 90 days after the Energy Commission's certification of the environmental impact report, provided the applicant has filed a complete application with the DTSC prior to certification of the Final EIR. DTSC will send a copy of its final action to Energy Commission staff within 5 days of the final action.
8. Energy Commission staff will require compliance with applicable waste generation and storage standards, site remediation plan requirements, and waste reduction requirements as conditions of certification for Opt-in Manufacturing Facilities.

D. Regarding duties and responsibilities related to disagreement resolution, the staffs of the Energy Commission and DTSC agree:

1. Where the staffs of the Energy Commission and DTSC disagree on any proposed conditions of certification or terms of an amendment approval, Energy Commission staff will coordinate meetings to discuss divergent positions regarding issues in dispute and encourage meaningful resolution.
2. If resolution is not achieved within 14 days after the initial meeting convened to resolve a dispute in accordance with subsection 1 of this section, the Director for the Energy Commission's Siting, Transmission, and Environmental Protection (STEP) Division and the DTSC's Deputy Director for Site Mitigation and Restoration Program (SMRP) for cleanup related disputes or Deputy Director for Hazardous Waste Management Program (HWMP) for permitting disputes will, along with their respective technical staff and legal counsel, meet and confer to resolve the disagreement.
3. In the event resolution is not achieved by the process in subsection 2, above, the DTSC Director and Energy Commission Executive Director will, along with their respective technical staff and legal counsel, meet and confer to resolve the disagreement.

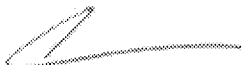
IV. AMENDMENTS

This MOU may be amended by mutual agreement of the staffs of the Energy Commission and DTSC. The MOU shall remain in effect until any party provides notice to the other that they are withdrawing from the MOU.

By:  _____ for

Meredith Williams
Director
Department of Toxic Substances Control

Date: September 27, 2022

By:  _____

Drew Bohan
Executive Director
California Energy Commission

Date: September 30, 2022

Message

From: Roark, Gabriel@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=ED87FF1E22CD49F3AAFF644C82538D46-ROARK, GABR]
Sent: 1/13/2023 12:21:32 AM
To: nahc@nahc.ca.gov
CC: Lauren DeOliveira [Ldeoliveira@aspeneg.com]; Roger Hatheway [RHatheway@aspeneg.com]
BCC: Miranda, Laura@NAHC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e82418b944f34757875e0ba64b38176f-Laura.Miran]
Subject: Fountain Wind Energy Project - Request for Contacts and Sacred Lands File Search
Attachments: 20230110SLF_NAContactFormFountainWindCEC-2.pdf

Good afternoon,

The California Energy Commission (CEC) is reviewing an application for opt-in permitting of wind energy project in Shasta County. To assist with our review under the opt-in regulations and California Environmental Quality Act, the CEC requests a search of the Native American Heritage Commission's Sacred Lands File and a list of contacts among California Native American tribes for this area. The attached request form contains project information.

Please note that one peculiarity of the statute and regulations governing the new opt-in program is that the CEC is obliged to initiate consultation with California Native American tribes no later than five days after determining that an opt-in application is complete. Our completeness review period is 30 days, so the opt-in program requirement has the CEC initiating consultation as soon as 35 days from receipt of an opt-in application. As such, anything that the Heritage Commission can do to expedite its response to this request would be most appreciated. I am at your disposal if you have any questions about this request or the opt-in program.

Lauren and Roger from Aspen Environmental Group are copied on this email because they are assisting the CEC with review of the application.

Many thanks and best regards,

Gabriel

Gabriel Roark, M.A.

Supervisor, Cultural Resources Unit
 Assistant Tribal Liaison, Siting, Transmission, and Environmental Protection Division
 California Energy Commission
916-237-2544 (mobile)
www.energy.ca.gov
 (he/him/his)

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission

1550 Harbor Blvd, Suite 100

West Sacramento, CA 95691

916-373-3710

916-373-5471 – Fax

nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Fountain Wind Energy Project

County: Shasta

USGS Quadrangle Name: Hatchet Mountain Pass, 7.5-minute

Township: See below **Range:** See below **Section(s):** See below

Company/Firm/Agency: California Energy Commission

Street Address: 715 P Street, MS-40

City: Sacramento **Zip:** 95814

Phone: (916) 237-2544

Fax: None

Email: Gabriel.Roark@energy.ca.gov

Project Description:

The proposed project is a wind energy development that would consist of 48 wind turbines rated at about 7 megawatts each. The turbines would be situated on a 4,464-acre area of rural Shasta County. Underground and overhead collector lines would link wind turbines and lead to grid interconnection. The project would include access roads, staging and laydown areas, and up to four permanent meteorological towers. The project would connect to the existing Pit #1 Dam to the Cottonwood Substation 230-kilovolt Transmission Line (PG&E).

Township, Range, and Section Locations (all on Hatchet Mountain Pass Quadrangle):

T 34 N, R 1 E, Mt. Diablo Baseline & Meridian: Sections 1-4, 9-16, 21-23, and 26-28

T 34 N, R 2 E, M.D.B.M.: Sections 5-8

T 35 N, R 1 E, M.D.B.M.: Sections 21-22, 25-28, and 33-36

T 35 N, R 2 E, M.D.B.M.: Sections 29-32

Message

From: Barns, Caitlin [Caitlin.Barns@stantec.com]
Sent: 12/12/2022 8:16:52 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Subject: RE: Appendix B updates

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Yes. We received a copy from Eric the day after they were proposed, I believe, and our application reflects the updated data requests.

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Monday, December 12, 2022 12:06 PM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Appendix B updates

Had Eric Knight shared this with you before? This is the information we would be looking for during our data adequacy review of Fountain Wind. The update is set to go final in a couple days now, I believe.

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Message

From: Barns, Caitlin [Caitlin.Barns@stantec.com]
Sent: 1/30/2023 5:09:03 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: John Kuba [jkuba@connectgenllc.com]; Henry Woltag [hwoltag@connectgenllc.com]
Subject: RE: Fountain Wind Project, Shasta County Data Adequacy Review Request
Attachments: Fountain Wind Project DTSC Response.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Great news, thanks!

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Monday, January 30, 2023 9:08 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Fw: Fountain Wind Project, Shasta County Data Adequacy Review Request

Heads up that DTSC data adequacy response came in a bit early (they had 15-25 days under our MOU with them and they got it in on day 16). They didn't identify any unmet info needs.

--Lon

From: De Pont, Rebecca@DTSC <Rebecca.DePont@dtsc.ca.gov>
Sent: Monday, January 30, 2023 8:49 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Cc: Lorentzen, Wayne@DTSC <Wayne.Lorentzen@dtsc.ca.gov>; Ferouz, Muzhda@DTSC <Muzhda.Ferouz@dtsc.ca.gov>
Subject: Fountain Wind Project, Shasta County Data Adequacy Review Request

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Mr. Payne,

Thank you for the opportunity to review and comment on the proposed Fountain Wind Project in Shasta County. Please see the attached response regarding the request for DTSC to review the proposed project's data adequacy. DTSC did not identify any data gaps or deficiencies.

Please feel free to reach out with any questions/concerns.

Best,
Rebecca De Pont
 Supervising Environmental Planner
 CEQA Unit-Permitting/HWMP
 (916) 255-3638/ (916) 764-1093
Rebecca.DePont@dtsc.ca.gov
 Department of Toxic Substances Control
 California Environmental Protection Agency





Caution: This email originated from outside of Stantec. Please take extra precaution.

Attention: Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

ATTACHMENT A

INFORMATION NEEDS FOR DOMESTIC AND INDUSTRIAL WASTEWATER DISPOSAL TO LAND

A complete report of waste discharge consists of a State Water Resources Control Board Form 200, a technical report, and the first annual fee. The technical report must completely characterize the discharge (i.e., volume, location, and nature of the discharge) and describe treatment processes and discharge conditions. The technical report must be certified by a California Registered Civil Engineer. To accommodate our filing system, the technical report should be single-sided, indexed, unbound, and provide at least a 1-inch top margin. The Information Needs given below comprise the minimum information needed for adoption of waste discharge requirements or issuance of a waiver of waste discharge requirements for disposal of domestic and industrial wastewater.

1. Description of Discharge

- a. Volume (i.e., design flow) - An estimate of the average, maximum and any variation in flows, as well as the design flows (hydraulic and treatment) for the treatment system. All necessary sizing calculations to accommodate the treatment volume must be included.
- b. Nature (physical and chemical characteristics) - Provide the known or expected strength of wastewater entering and leaving treatment units. State whether any high strength or chemically treated waste could be discharged to the system. A summary of the Priority Pollutant testing should be included and chemicals which have a reasonable potential to cause or contribute to an in-stream excursion above a narrative or numerical water quality standard should be discussed.
- c. Sludge disposal practices – A summary of the existing and proposed sludge disposal activities should be included with the application. This would include how sludges, collected screenings, and other solids removed from liquid wastes are stored and disposed. If analytical data is available, this should be provided with the submittal package.
- d. Water quality characteristics of all wastewaters. This characteristic should include a list of chemicals utilized in plant processes that could be discharged through the outfall, and include a process water flow diagram. Supply water quality analytical data should be included into the submittal. This characteristic should include a summary of any chronic/acute toxicity analysis.
- e. Location - The physical (street) address must be provided as well as the location based on the public lands survey system (i.e., township, range, section, baseline, and meridian). Give distance and direction to the nearest city or town and the county of discharge. Discuss how site characteristics such as soil profile, groundwater, surface water, topography, climate, etc., are compatible with the discharge and the method of disposal.

-
- f. Management of stormwater – A description/map of how the stormwater is managed/discharged at the facility. This description should include an analysis of how Best Management Practices will be utilized to control stormwater.

2. Treatment System

- a. Treatment method - State what method of treatment will be provided (e.g., oxidation pond, spray irrigation, etc.). Be complete in the description.
- b. Treatment capacity - Give the rated design capacity of the system. Provide a treatment schematic.
- c. Documentation - Furnish design plans and specifications or, if they are not yet available, a detailed written description accompanied by visual aids such as layouts and process schematics.
- d. A description of the proposed performance monitoring system utilized to determine that the disposal system is in compliance with WDRs.
- e. A spill plan including the preventive and contingency measures for controlling accidental discharges and for minimizing the effect of such an event.
- f. Information required assessing protection of the facility from floods and frost.

3. Disposal system

- a. Disposal method - Describe the method of wastewater disposal, whether to an unlined pond, a lined pond, surface water disposal, overland flow system, spray field, standard gravity leach field, pressurized leach field, or leach field with emitters (these are just examples).
- b. Reclamation - State whether treated wastewater will be reclaimed. Reclaimed wastewater must be treated, disinfected, and handled in accordance with California Code of Regulations, Title 22, Section 60301, et al., which contains requirements for system design, safety, redundancy, etc.
- c. Disposal capacity - Provide the capacity, footprint, and layout of the disposal system, including design calculations, and any supporting documentation. For a pond, include a water balance with design parameters and assumptions clearly stated.
- d. Documentation - Furnish design plans and specifications or, if they are not yet available, a detailed written description accompanied by visual aids such as layouts and process schematics.
- e. Operation and maintenance - Discuss the required operation and maintenance and the person or entity who will be performing it. Include a statement of qualifications and experience.

-
- f. A narrative and schematic description of each of the proposed alternatives in the disposal system. Identification of whether disposal occurs on a seasonal basis. Information on the type and size of the disposal alternative(s). Provide design details, including flows, for each disposal alternative.
 - g. A discussion on the potential hydraulic and other impacts of the selected wastewater disposal alternatives.
 - h. If treated water is to be used for irrigation, property owner, type and permeability of the soils, estimated quantities based on consumptive use, method of application, surface runoff controls and the irrigation season must be identified. Institutional arrangements for control of land must also be identified.
 - i. If ponds are used for the disposal of the treated wastewater, information on the freeboard and structural integrity and estimates of infiltration and evaporation must be provided.
 - j. Discussion of Best Management Practices (BMPs) that will be employed at the facility to prevent unauthorized wastewater discharges.

4. Soil, Groundwater, and Surface Water

- a. Soil
 - i) Soil depth - Indicate the depth of unsaturated soil when groundwater is closest to the surface.
 - ii) Soil description - Describe soil types based on site-specific information (e.g., borings, test pits). Sampling locations must be accurately measured and recorded. Provide a description and results of percolation tests or other tests used to estimate the soils' long-term infiltration rates. Include depth, thickness, and extent of various soil horizons on a written or visual log, or both. Soils must be described a minimum of five feet below the bottom of any disposal unit (e.g., leaching trench).
 - iii) Bedrock - Characterize bedrock encountered in the disposal area. State type (e.g., greenstone, shale) and condition (e.g., weathered, fractured).
 - iv) Map - Depict soil/rock types and test locations accurately on a scale drawing. The accuracy of the map must be certified by a California Registered Civil Engineer or Land Surveyor.
- b. Groundwater - Give depth to highest anticipated groundwater based on onsite measurements taken over a wet season. Information may be augmented by groundwater level data from nearby wells, if such data represent first encountered groundwater at the site. Provide direction of groundwater movement, if known, and groundwater quality (e.g., mineral, nutrient, biological), if known. Submit information on any existing groundwater monitoring well locations and completion details. Submit locations of any known geologic features (e.g. aquitards, subterranean channels, faults,

etc.) and Aquifer characteristics (e.g., hydraulic conductivity, porosity, etc.) determined from a sufficient number of locations by aquifer tests, soil borings, geophysics, etc. A summary of historical analytical results should be included.

c. Surface Water

- i) Drainage to - Give the names of surface waters to which the site drains.
- ii) Other surface waters - Describe springs, seeps, wetlands, ponds, lakes, canals, and ditches within 500 feet of the disposal area.
- iii) Map - On a topographic quadrangle map, or equivalent, depict the site and surrounding surface water features.

5. Other

a. Maps

- i) Vicinity map - Provide a scale map showing the location of the facility relation to known features, such as cities, towns, rivers, and roads.
- ii) Site map - Provide an accurate scale site map, prepared under the direction of and certified by a California Registered Civil Engineer or Land Surveyor. The site map must, at a minimum, show collection, treatment, and disposal facilities, onsite well locations (monitoring wells, supply wells), buildings, and property boundaries. Features must be appropriately named and labeled.
- iii) Water well locations map - All water supply wells, including but not limited to individual domestic wells, community wells, and agricultural wells, within 500 feet of the disposal area must be shown. The map or an accompanying table must include well information such as ownership, construction details, and purpose of use (e.g., domestic, industrial, agricultural).
- iv) Identification of the surface drainage controls, drainage courses and surface water bodies, including rivers, streams, lakes and ponds within one mile of the facility.
- v) Locations of all recharge areas (e.g. ephemeral stream channels, percolation ponds, subsurface sewage disposal systems, irrigated agriculture, etc.) within one mile of the facility.
- vi) Identification of all piezometers and all wells, including monitoring, extraction, injection and supply wells, onsite and offsite within one mile of the site or within an area that may potentially be influenced by the discharge.
- vii) Property boundaries.
- viii) Buildings, dwellings, and other significant structures.

-
- ix) Map(s) of the site that depicts the location of all surface features identified above, including the process and source areas, the points of discharge and the disposal facilities.
 - x) Site plan with any proposed water management modifications.
- b. Climate information
- i) Precipitation - Indicate the average annual precipitation and wet year precipitation (25 and 100-year return periods) and, if a water balance is required, monthly distributions. Station location(s) and source of information must be cited.
 - ii) Evaporation/evapotranspiration - Give annual evaporation and, if a water balance is required, monthly distribution. Evapotranspiration data is needed only if disposal is by application to land with plant uptake (e.g., overland flow, spray field, irrigation). Station location(s) and source of information must be cited.
 - iii) Flood hazard - Provide a copy of the Flood Insurance Rate Map for the facility area. A photocopy of the portion pertaining to the site (and the map number) is acceptable. Submit a statement certifying that the treatment and disposal areas are outside of the 100-year flood zone.
- c. California Environmental Quality Act - Provide a copy of the final (adopted) CEQA document, adoption date, and adopting authority. If a final CEQA document is not yet available, give a time schedule for completion of CEQA.
- d. Local permits - Provide copies of the facility's conditional use permit (if one is required) and the permit for construction of the wastewater treatment and disposal facility.
- e. Land use - Provide a map showing the current use of the property and surrounding properties.
- f. System sustainability - Indicate the proposed operator and responsible entity. Describe the kinds of financial assurance mechanisms that will be provided to ensure funding should the system or its source of financial support fail.

6. Best Practical Treatment and Control (BPTC)

The revised application should discuss if the wastewater treatment plant provides the best practicable treatment and control (BPTC) of the discharge (industrial and domestic), which is required by State Water Resources Control Board Resolution No. 68-16 (Antidegradation Policy).

7. Antidegradation Analysis

An antidegradation analysis is required that would require an examination of:

- a) Existing applicable water quality protection standards;
- b) Ambient conditions in receiving waters (groundwaters) compared to standards;

- c) Incremental changes in chemical constituent loading;
- d) Treatability characteristics;
- e) Best practicable treatment and control (BPTC);
- f) Comparison of the proposed increased loadings relative to other sources; and,
- g) An assessment of the significance of changes in ambient ground water quality.

The antidegradation analysis must also analyze whether:

- a) Such degradation is consistent with the maximum benefit to the people of the state;
- b) The activity is necessary to accommodate important economic or social development in the area;
- c) The highest statutory and regulatory requirements and best management practices for pollution control are achieved; and
- d) Resulting groundwater quality is adequate to protect and maintain existing beneficial uses.

8. Salinity

The discharger may be required to prepare a salinity evaluation and minimization plan to address sources of salinity from the Facility. Provide available data and estimate salinity concentrations in the discharge, influent, and domestic/industrial water supply.

9. Regionalization, Reclamation, Recycling and Conservation

As part of the report of waste discharge application, the discharger shall provide the following:

- a) Efforts that have been taken to promote new or expanded wastewater recycling and reclamation opportunities and programs;
- b) Water conservation measures; and
- c) Regional wastewater management opportunities and solutions (e.g. regionalization).

The report should include all current efforts and actions involving regionalization, reclamation, recycling and conservation. The status of current opportunities and activities, the potential for new opportunities and activities, and impediments to new or expanded efforts should be addressed. If applicable, the ROWD must also include an evaluation of wastewater reclamation and land disposal as alternative disposal methods.

10. Title 27 Exemption

The discharger shall provide evidence regarding exemption from Section 20090, Title 27, California Code of Regulations. The ROWD must explain what exemption applies, and justify why it is applicable.

Appointment

From: Gaylene.Tompkins@energy.ca.gov [Gaylene.Tompkins@energy.ca.gov]
Sent: 2/7/2023 3:33:26 PM
To: Leni-Konig, Katrina@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f7dd22b5889843ea84aab9977ffd2f65-Leni-Konig,]; Qaqundah, James@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7da5ec0923de49488685fdaa76c71e51-Qaqundah, J]; Roark, Gabriel@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed87ff1e22cd49f3aaff644c82538d46-Roark, Gabr]; Michelle Lee [Michelle@thecirclelaw.com]; Hochschild, David@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8ebbe6949d3a425ea7bd5f56679bdefe-Hochschild,]; Vorters, Dian@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2c5604e712a74c029e412542e0db72ac-Vorters, Di]
CC: Bohan, Drew@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7dd07a25fcbc49b0bbb219cc3b788983-Bohan, Drew]; Spiegel, Linda@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ebd5eba120fc4bf28d402722a557ac46-Spiegel, Li]
Subject: Pit River meeting with CEC
Start: 2/7/2023 9:00:00 PM
End: 2/7/2023 10:00:00 PM
Show Time As: Free
Recurrence: (none)
Required Attendees: Qaqundah, James@Energy; Roark, Gabriel@Energy; Michelle Lee; Hochschild, David@Energy; Vorters, Dian@Energy
Optional Attendees: Bohan, Drew@Energy; Spiegel, Linda@Energy

The CEC will meet with Chairwoman Gonzalez of the Pit River Tribe to discuss the Fountain Wind Project and clean energy development. The meeting will be held virtually using the teams links below.

Please feel free to reach out to me if you have any trouble connecting or have any questions ahead of time 916-980-7981.

Kind regards,

Katrina Leni-Konig
 CEC Deputy Public Advisor and Tribal Liaison

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 233 354 889 55

Passcode: 6Pmncj

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

+1 916-306-7589,394500686# United States, Sacramento

Phone Conference ID: 394 500 686#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)

Message

From: Paul Hellman [phellman@co.shasta.ca.us]
Sent: 2/3/2023 7:56:13 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Emigh, Kyle@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ae4d86b0cb6a4f318c4e9e6fb5e82008-Emigh, Kyle]; Rubin Cruse [rcruse@co.shasta.ca.us]; Mary Williams [mewilliams@co.shasta.ca.us]; James Ross [jross@co.shasta.ca.us]
Subject: RE: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

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Lon,

Thank you for this notice. We are in the process of reviewing and preparing responses to it. Acting County Executive Officer (CEO) Patrick Minturn retired at the end of last month and Deputy CEO Mary Williams has been appointed by the Board of Supervisors as Acting CEO until a permanent CEO is hired. Ms. Williams email address is mewilliams@co.shasta.ca.us; please add Ms. Williams to your contact list in place of Mr. Minturn.

According to a January 13th memorandum from yourself to the Docket Unit posted on the web page for the project, your office will be making an application completeness determination on or before February 11th. I would like to know if a completeness determination has been made yet and, if not, I am requesting that your office notify myself and the other Shasta County officials copied on this email once a determination has been made.

Sincerely,

Paul Hellman, Director
Shasta County Department of Resource Management
(530) 225-5114
<https://www.co.shasta.ca.us/index/drm>

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, January 25, 2023 9:13 AM
To: Paul Hellman <phellman@co.shasta.ca.us>; Rubin Cruse <rcruse@co.shasta.ca.us>; James Ross <jross@co.shasta.ca.us>; Pat Minturn CEO <pjminturn@co.shasta.ca.us>; Lio Salazar <lsalazar@co.shasta.ca.us>
Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>
Subject: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

EXTERNAL SENDER: Do not follow links or open attachments unless you recognize the sender and know the content is safe.

The California Energy Commission (CEC) provides the following notice pursuant to Cal. Pub. Resources Code (PRC) § 25545.8, which states that subsections (f) and (k) of PRC § 25519 apply to an Opt-in application.

The relevant language from PRC § 25519 is as follows:

(f) Upon receipt of an application, the commission shall forward the application to local governmental agencies having land use and related jurisdiction in the area of the proposed site and related facility. Those local agencies shall review the application and submit comments on, among other things, the design of the facility, architectural and aesthetic features of the facility, access to highways, landscaping and grading, public use of lands in the area of the facility, and other appropriate aspects of the design, construction, or operation of the proposed site and related facility.

(k) The commission shall transmit a copy of the application to any governmental agency not specifically mentioned in this act, but which it finds has any information or interest in the proposed site and related facilities, and shall invite the comments and recommendations of each agency. The commission shall request any relevant laws, ordinances, or regulations that an agency has promulgated or administered.

CEC has set up a web page for the project at this address: <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>

The documents which comprise the Opt-in application can be found in the project docket, which is accessible via the project webpage or directly at: <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=23-OPT-01>

The key document for understanding how to locate relevant information in the application is the "crosswalk matrix" document provided by the applicant, which can be accessed here: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=248321&DocumentContentId=82718>

The Project Description can be accessed directly here: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=248322&DocumentContentId=82719>

Please note the review and commenting obligations placed on Shasta County to comply with PRC § 25519(f). We look forward to receiving your comments at your earliest convenience.

Pursuant to PRC § 25519(k), CEC invites the comments and recommendations of Shasta County, and requests that you send us any relevant laws, ordinances, or regulations that Shasta County has promulgated or administered that are applicable to the proposed project.

CEC also wishes to make Shasta County aware that (PRC) § 25545.8 also states that PRC § 25538 applies to an Opt-in application. The relevant language is as follows:

(PRC) § 25538

Upon receiving the commission's request for review under subdivision (f) of Section 25519 and Section 25506 , the local agency may request a fee from the commission to reimburse the local agency for the actual and added costs of this review by the local agency. The commission shall reimburse the local agency for the added costs that shall be actually incurred by the local agency in complying with the commission's request.

Feel free to reach out to me directly via email if you have any questions about this notice. Thank you.

Leonidas Payne--Project Manager

California Energy Commission

Message

From: Vela, Cameron@NAHC [Cameron.Vela@nahc.ca.gov]
Sent: 2/7/2023 5:56:46 PM
To: Roark, Gabriel@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed87ff1e22cd49f3aaff644c82538d46-Roark, Gabr]
CC: Pallari, Mario@NAHC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=79b444cf1b6d495aa910efd833a24aa7-NAHCMario.P]
Subject: Fountain Wind Energy Project Request
Attachments: SLF No Fountain Wind Energy Project Request 2.7.2023.pdf; Fountain Wind Energy Project Request List 2.7.2023.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning,

Attached is the response to the project referenced above. If you have any additional questions, please feel free to contact our office email at nahc@nahc.ca.gov.

Thank You,

Cameron Vela

Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Cameron.vela@nahc.ca.gov
Direct Line: (916) 573-0168
Office: (916) 373-3710

STATE OF CALIFORNIA

Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION

February 7, 2023

Gabriel Roark
California Energy Commission

Via Email to: Gabriel.Roark@energy.ca.gov**Re: Fountain Wind Energy Project Request, Shasta County**

Dear Mr. Roark:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

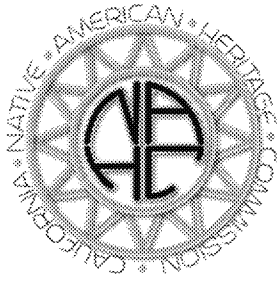
If you have any questions or need additional information, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment



CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
Isaac Bojorquez
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Nomlaki

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COMMISSIONER
Stanley Rodriguez
Kumeyaay

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nahc@nahc.ca.gov
NAHC.ca.gov

**Native American Heritage Commission
Native American Contact List
Shasta County
2/7/2023**

Greenville Rancheria of Maidu Indians

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P.O. Box 279 Maidu
Greenville, CA, 95947
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Fax: (530) 284-6612
ksself@greenvillerrancheria.com

Susanville Indian Rancheria

Deana Bovee, Chairperson
745 Joaquin Street Maidu
Susanville, CA, 96130 Paiute
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Pit River Tribe of California

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Historic Preservation Officer
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Burney, CA, 96013 Wintun
Phone: (530) 335 - 5421
THPO@pitrivertribe.org

Winnemem Wintu Tribe

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Preservation Officer
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Mount Shasta, CA, 96067
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Pit River Tribe of California

Charles White, Tribal
Administrator
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Fax: (530) 335-3140

Winnemem Wintu Tribe

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Pit River Tribe of California

Agnes Gonzalez, Chairperson
36970 Park Ave Pit River
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Fax: (530) 335-3140
1010@gmail.com

Wintu Tribe of Northern California

Wade McMaster, Chairperson
P.O. Box 995 Wintu
Shasta Lake, CA, 96019
Phone: (530) 605 - 1726
Fax: (530) 605-1727
wintu.tribe1@gmail.com

Quartz Valley Indian Community

Harold Bennett, Chairperson
13601 Quartz Valley Road Karuk
Fort Jones, CA, 96032 Klamath
Phone: (530) 468 - 5907 Shasta
Fax: (530) 468-5908
tribalchairman@qvir-nsn.gov

Redding Rancheria

Jack Potter, Chairperson
2000 Redding Rancheria Road Pit River
Redding, CA, 96001 Wintu
Phone: (530) 225 - 8979 Yana
Fax: (530) 241-1879
melodieh@redding-rancheria.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Fountain Wind Energy Project Request, Shasta County.

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***Archaeological Resource Management Reports (ARMR):
Recommended Contents and Format
February 1990*****Preface**

The California Office of Historic Preservation (OHP), under its state and federal mandates, has developed Archaeological Resource Management Reports (ARMR): Recommended Contents and Format (ARMR Guidelines) for the preparation and review of archaeological reports. The purpose of this guidance is to improve the quality of public archaeology in California. The ARMR Guidelines were developed to aid archaeological report preparation and review by ensuring that all needed data would be included and organized to optimize efficiency and utility. "Needed data" refers to information usually required by regulatory or review agencies and by the Information Centers of the California Archaeological Inventory. The checklist included with this guidance was developed as an additional means of rapidly assessing archaeological report quality.

It may be unnecessary to include all classes of information presented in this guidance in all reports. The content appropriate for any report should be determined by the type and scale of a project, by the nature and scheduling of cultural resources studies, and by the complexity of the resources and the information under consideration. Applicable federal or state laws and regulations, local ordinances and procedures may also determine appropriate report content.

Certain federal and state agencies routinely produce abbreviated reports adequate for management decisions. Some of the information discussed in this guidance (e.g., setting, research design, methods description) is presented in agency handbooks, manuals, guidelines, or overviews. Reference to these sources may be substituted in reports for an extended discussion of this information when routine or repetitive undertakings are involved.

Although these guidelines do not represent a state-mandated program, the OHP strongly urges anyone involved with public archaeology to read and use them. This guidance can be understood and effectively used by the professional archaeologist as well as by a broad spectrum of other professionals and decision-makers interested in ensuring that an investment in archaeology serves the public interest. Local governments in particular should adopt the guidelines as the standard according to which archaeological studies will be carried out, reported, and judged.

This guidance, and further guidance to follow, are major elements of the preservation planning process carried out by the OHP in accordance with its mandates. A central goal of this process is to ensure that land use planning at all levels of government routinely and affirmatively takes into account the needs and the value of historic properties. We hope this guidance will be an effective contribution toward attainment of that goal.

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For copies of the ARMR guidelines, or further information on OHP programs and guidelines contact:

California Office of Historic Preservation
P.O. Box 942896, 1416 Ninth Street
Sacramento, California 94296-0001
(916) 653-6624

Acknowledgements

The ARMR Guidelines is the product of many minds. Authored by Mr. Robert Jackson, the guidelines evolved from interim guidance developed by the author at the OHP. The guidelines also borrow from the Guidelines For Cultural Resource Management (CRM) Reports developed by Mr. Lester Ross and issued through the San Bernardino Archaeological Information Center.

Dr. Hans Kreutzberg devoted substantial editorial and organizational attention to the ARMR Guidelines, rendering the document intelligible to a broad spectrum of potential users. Mr. Thad Van Bueren provided valuable and substantial input on the document. Thanks also go to Ms. Dorene Clement and Mr. Nicholas Del Cioppo, Mr. Jim Woodward, and Dr. Michael Moratto for their review and editorial comments.

As a review agency, the OHP frequently offers critical comments that focus on problems of quality and consistency encountered in archaeological reports. While the ARMR Guidelines have been prepared to address such problems, it is important to acknowledge the many excellent archaeological reports that we have reviewed over the last several years. While too numerous for individual acknowledgement, the authors of these reports have provided models for specific topics presented in the ARMR Guidelines. To these authors we offer thanks and appreciation.

The cover illustration was drafted by Thad Van Bueren for the 1984 report Archaeological Investigations in the Sacramento River Canyon, Volume I: Report of Testing at Seven Aboriginal Sites, by Infotec Development, Incorporated. The California Department of Transportation, for whom the report was prepared, graciously consented to our use of the illustration.

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Archaeological Resource Management Reports (ARMR): Recommended Contents and Format

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I. Cover Letters

Adequate cover letters greatly facilitate review of ARM reports because they succinctly summarize the purpose and intent of the study. Cover letters are necessary for federal agency submissions to the Office of Historic Preservation or the Advisory Council on Historic Preservation. Unlike management summaries or abstracts, which are often prepared by a consultant, cover letters reflect the agency's views and requests of the reviewing entity on such issues as archaeological resource significance and management. Regardless of origin, cover letters should at a minimum:

- A. Provide the undertaking's name, location, and any identifying number.
- B. State the agency name and where applicable, district, region, section or branch.
- C. Briefly describe the undertaking, including:
 1. the type of undertaking (e.g., hydroelectric generating facility, highway widening, land exchange);
 2. the acreage of the area encompassed by the undertaking, or its length and width in the case of linear projects;
 3. the component parts of an undertaking and their land- and resource-disturbing potential; and
 4. undertaking schedules or other factors that have affected, or that may affect, the conduct of archaeological resource studies.
- D. Identify the law, regulation or agreement under which the document was prepared. These could include the National Historic Preservation Act (NHPA), the National Environmental Policy Act (NEPA), the California Environmental Quality Act (CEQA), or local laws and regulations. The letter should also identify the point that compliance with applicable laws and regulations has reached.
- E. Describe the phase of investigation addressed by the document or the type of documents submitted (e.g., inventory/identification report, research design or report on evaluation, treatment or management plan). Reference the specific type of investigation represented by the report. For instance, if the investigation is a survey, state also whether the survey was intensive, general, intuitive, etc.
- F. Describe the results of the investigation. If the document reports the results of survey/identification, include the number and types of properties identified (e.g., historic archaeological, prehistoric archaeological). In addition, the letter should:
 1. identify (by name) properties within and outside an Area of Potential Effects (APE) (if survey exceeds APE boundaries);
 2. identify properties that may and may not be affected by the undertaking;

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3. note special circumstances (e.g., Native American or other public concerns, controversies, undertaking time constraints, political sensitivity).
- G. Indicate what action is being requested under the terms of applicable laws or regulations, and cite the specific section(s) of regulations to which the report is pertinent. Examples include requests for OHP consultation and concurrence in the adequacy of identification effort (36 CFR 800.4 [b]); requests for concurrence in National Register of Historic Places eligibility (36 CFR 800.4[c]); and requests for concurrence in determinations of effect (36 CFR 800.5). Include a description of further actions the agency anticipates taking to comply with pertinent laws such as CEQA or the NHPA. If the document addresses previous review comments, it may be appropriate to attach review comments to the cover letter.
 - H. Name the agency contact person most familiar with the undertaking and with archaeological resources studies who has authority to deal with issues raised during the course of review (e.g., agency cultural resource specialists who prepare the letters and reports). Include phone number.

II. Title Page

The National Park Service has developed, and is encouraging the use of, a National Archaeological Data Base (NADB) comprising an annotated bibliography of archaeological resource management (ARM) reports. If used extensively and consistently, the NADB can be a valuable and efficient tool for managing ARM information. Consistent information and format in title pages will greatly facilitate computer entry of NADB data. A title page consistent with NADB standards, as outlined below, is appropriate for all reports.

- A. List the authors. Include name, address, and phone number of any consulting firm.
- B. Date the report by month and year.
- C. Present the report title. Indicate the type of investigation conducted, undertaking name, location including county and city or equivalent designation.
- D. Identify the entity submitting the report, such as the consulting firm, agency, or group that prepared and submitted the document. The submitter and the author may be identical.
- E. Identify the party to whom the document was submitted (e.g., contracting or responsible party such as an agency, developer, or a lead agency under CEQA).
- F. Reference the contract number/federal agency permit number.
- G. Cite the U.S.G.S. topographic quadrangles depicting study area.
- H. List the acreage included in the study.
- I. List keywords. NADB accommodates a large number of key words. Appropriate content for the title page depends on the type and complexity of the report. Key words can

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include site numbers, county, type of undertaking, type of archaeological study, place names, important diagnostic artifact type, presence of human burials, evaluation, no resources found (if appropriate), Information Center file number (Information Centers should supply number), number of acres surveyed, quads, etc.). Archaeological site trinomials, township, and range but not section) are required in the key words section. If there are a large number of sites reported, cite the report page(s) that list the site trinomials.

III. Table of Contents (appropriate if text of report exceeds 10 pages)

- A. List major report sections, subheadings, and appendices, with page numbers
- B. Provide a list of maps with page numbers.
- C. List figures with page numbers.
- D. List tables with page numbers.

IV. Management Summary/Abstract

This section is appropriate in any type of ARM report. The Management Summary/Abstract should be a succinct (one to five pages) abstract of the scope and findings of the report. While much of the information described in this section is duplicated in a cover letter, cover letters often are either discarded after agency review or separated from archaeological reports in agency files. The Management Summary should be written so that non-archaeological professionals and the public, as well as professional archaeologists, can understand it.

- A. Describe the purpose and scope of the archaeological investigation. Specify the type of study that was conducted (e.g., literature search, inventory, evaluation, data recovery).
- B. List the date(s) of the investigation.
- C. Summarize the major findings of the investigation. For example, if the document reports an archaeological survey, list the number and types of resources identified during the survey.
- D. If resources have been evaluated, summarize their significance as determined pursuant to Appendix K of CEQA: California Environmental Quality Act Statutes and Guidelines, the National Register of Historic Places criteria, or other standards as appropriate.
- E. Discuss how the undertaking affects significant resources.
- F. Describe constraints on the investigation (e.g., time, finances, logistics, vegetation, weather, landowner permission).
- G. Offer a summary of recommendations (e.g., evaluative test excavation, National Register eligibility recommendations, treatment recommendations).
- H. Describe the disposition of field notes, collections, and reports.

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V. Undertaking Information/Introduction

Undertaking means the land- or resource-disturbing activity for which an ARM study is prepared. The nature of an undertaking can determine the nature of the ARM study. Information about the undertaking is needed to determine how important archaeological resources may be affected. How much information is appropriate for a given report may depend on what was included in previous reports for the undertaking, and on the scope and size of the undertaking. Some of the following topics may not be relevant to a given undertaking.

- A. Identify the contracting institution, contract number, permit number and expiration date.

- B. Explain why the study was undertaken, citing relevant Federal, State, and local laws. Mention any studies that preceded and recommended the present effort.

- C. Describe the undertaking, including the nature and extent of disturbance anticipated. If the undertaking consists of many features or facilities, identify and describe the nature and extent of its land- and resource-disturbing potential. Include:
 1. an undertaking location map consisting of photocopies of relevant portions of appropriate USGS quadrangles clearly delineating the undertaking boundaries. Indicate the undertaking name, quad name, quad scale, township/range, and sections on each copy.

 2. specific characteristics of the undertaking that influenced the nature of the ARM study. Include impact map(s) consisting of a photocopy of the undertaking location map (see above) that delineate areas of potential effects (APE), both direct and indirect. If appropriate, duplicate this map in Section XI, and include copies of planning maps, engineering drawings, architectural drawings, or artist's renderings that assist in defining the nature and extent of the undertaking.

- D. Include a schedule for the undertaking. Describe phases of planning and construction.

- E. Identify the geographical limits of the ARM study area in acres (e.g. the length and width of the survey area for linear undertakings). This area may or may not coincide with the undertaking area.

- F. Describe how personnel conducting the work were organized and list the active participants and their duties. Statements of qualifications are to be provided in an appendix. Identify the persons participating in the study such as Native American observers, monitors, and consultants, interested parties with special knowledge or expertise, and technical specialists.

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VI. Setting

A description of the undertaking's setting includes a discussion of both the natural and cultural environments in which archaeological resources were created and used. The discussion of setting, whether physical or cultural, involves a review of existing data and literature.

A. Natural Setting

While appropriate for all archaeological investigations, descriptions of the area's physical environments should be scaled to the size (area) of the undertaking and the potential role of the environment in understanding archaeological resources that might be present. Archaeological resources can be important for reasons other than their research value, and an analysis of the natural setting may provide such reasons.

1. Identify the natural physiographic region and biotic communities found therein.
2. Describe the current natural environment of the general area including landforms, hydrology, geology, soils, climate, vegetation, and animal life, as appropriate. The location of culturally important resources such as outcrops of cryptocrystalline, reservoirs, townsites, etc., should also be discussed, as appropriate.
3. Describe the natural environment as it is believed to have existed during the temporal periods of occupations under investigation, if such information is available.
4. Describe current land use (e.g., agriculture, mining, recreation, residential).
5. Assess the current condition of the land within the area of the undertaking (e.g., relatively unmodified, partially disturbed by construction or improvements).

B. Cultural Setting

1. Provide an overview of the archaeology of the study area, with the level of detail scaled to the undertaking size and type. Existing overviews should be cited. Regardless of whether overviews exist, survey reports should include at least a brief summary of the prehistory of the study area, citing relevant information sources. As appropriate, include:
 - a. a review of the ethnographic information relevant to the study area, scaled to undertaking size and type. Consultation with the Native American Heritage Commission as well as interviews with knowledgeable consultants may be necessary.
 - b. a review of the history (which may or may not include ethnographic period information) of the study area, particularly when historic archaeological resources are or could be present. Again, the depth and extent of this review should be

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scaled to the size and type of undertaking as well as the recognized patterns of historic land use.

2. For resource identification reports, evidence of a record search for known archaeological resources and previous ARM reports conducted at an Information Center of the California Archaeological Inventory should be included. Either a copy of the record search report performed by Information Center staff or the results of a records search performed by a professional consultant should be provided in an appendix.
3. If other documentary research is conducted, provide the names and addresses of institutions and other sources consulted and include copies of correspondence. Refer to the types of documents examined and briefly outline the results.

VII. Research Design

Research designs are explicit statements of the theoretical and methodological approaches to be followed in an archaeological study. Research designs should be included in almost every type of archaeological report, and should vary in nature and level of detail with the undertaking and investigation type. In some cases, research designs have been developed for specific geographic regions, types of investigations, or types of resources. At a minimum, such research designs should be included into ARM reports by reference. In other reports, project-specific research design sections are necessary (e.g., evaluative and data recovery excavations).

Research designs link theory, known information, research goals, and methods. The use of previously formulated research designs is acceptable if these designs are current and relate directly to the area and type of study under consideration. Predictive models are elements of a research design applicable to archaeological surveys. Predictive models are structured predictions concerning the types and locations of archaeological phenomena anticipated in an area.

- A. Discuss the theoretical basis of the proposed research. Cite or discuss the research paradigms under which the investigators are operating.
- B. Summarize previous research. A summary of important research questions pertinent to the study area or to identified resources should be presented, with particular emphasis on the identification of relevant data gaps. Statements appealing to generally recognized goals of archaeology or anthropology by themselves usually lack the detail necessary for an adequate research design.
- C. Present testable hypotheses or state the goals of the research. Any useful theoretical approach should be capable of generating testable hypotheses. A research design should present important research questions recognized for the region and relevant to the study, based on previous research.
- D. Identify the test implications of the hypotheses.
 1. Describe expected archaeological resource types, archaeological patterns, and data categories anticipated, as they relate to test implications. Discuss operational

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definitions for archaeological resource types (and rationales for their use), if different from OHP definitions of archaeological sites, historic resources, and isolated artifacts or resources.

VIII. Methods

Methods of investigation must always be included in an ARM report. The length and detail of this presentation should be scaled to the type and scope of the investigation. Discuss methodological considerations (as distinguished from methods) relevant to the resource types present or anticipated in the study area. Discuss the kinds of methods appropriate to achieving the objectives of the study. Conversely, identify constraints and difficulties that hinder(ed) realization of these goals.

- A. If not offered previously, present definitions (and rationales for their use) of archaeological resource types. This is necessary when the definitions used for archaeological sites, historic resources, and isolated artifacts differ from those contained in the California Archaeological Inventory Handbook for Completing An Archaeological Site Record, distributed by the California OHP.
- B. Describe the data gathering methods employed (e.g., remote sensing data; surface survey; surface chemical analysis; sub-surface methods such as probing road and stream cuts or analyzing core probes). The methods description should provide details such as maps of survey transects, deployment of survey personnel, site recordation techniques, chemical analyses, subsurface test locations and methods, and remote sensing techniques.
 1. Describe specific research and sampling strategies employed, the rationale for their use, a description of how they were implemented, and how many person-hours/days were expended, if such information is available. If methods follow agency or professional standards, define or at least cite the source for the definition of the method (e.g. intensive, general, intuitive, cursory surveys).
 2. Using U.S.G.S quadrangles, show area(s) subject to investigation in relation to the Area of Potential Effects (APE) and project boundaries. For survey reports, depict areas surveyed, not surveyed, or surveyed using various strategies. Larger scale maps may also be appropriate to convey information regarding the nature of the investigation. Such maps can be included in an appendix (see section IX.A.2.b.).
 3. Provide a descriptive summary of the areas examined, noting undertaking areas that were not inspected in relationship to the sampling strategies employed, and why. Note the percentage of ground visibility for the areas inspected.
 4. Describe site recording procedures as appropriate.
 5. Describe the types and methods of excavation. Number each excavation location on a map of the site sufficiently detailed to depict the relationship between natural and archaeological features within the site.
 6. Describe cultural materials collected (if any), including methods of documentation and removal.

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7. Describe measures undertaken or needed to restore archaeologically disturbed site areas when archaeological field studies are completed.

C. Indicate where collected materials, photographs, and other documents are curated. Curatorial agreements and reburial agreements should be provided in an appendix.

1. When photos or other documentation (e.g., remote sensing data) are not included in the report, name the repository where these data are stored. Provide appropriate reference numbers used to file and retrieve this data at the repository.
2. Discuss problems or constraints in conducting the research.

IX. Report of Findings

This section presents the information collected during the study. Thorough description of collected data is essential for the construction of meaningful and well-supported interpretations. When interpretations of data are mixed with or substituted for basic data presentations, the reader is left with no basis for independently assessing conclusions and inferences. It is therefore critical to explicitly separate data presentation from interpretation of those results whenever possible. Specific descriptive requirements for particular types of ARM studies are outlined below.

A. Archaeological Resource Inventory Reports

1. If no archaeological resources were located, their absence should be explicitly noted.
2. If resources were previously reported or anticipated but were not located, discuss the possible environmental and cultural factors that may have hidden or destroyed the resources.
3. Archaeological resources identified.
 - a. Provide information regarding the archaeological resources that were observed and recorded, including:
 - i. prehistoric archaeological sites (i.e., primarily surface and subsurface properties);
 - ii. historic archaeological sites;
 - iii. isolated artifacts.
 - b. Recent or contemporary resources (e.g., modern roads, power lines, structures) noted but not formally recorded might also be discussed and included on a map, although such information may not be appropriate or necessary, and is usually not confidential.
 - c. The following maps should generally be included in a report on the results of inventory. Maps depicting archaeological site locations should not be included in reports that will be publicly circulated. The following types of maps might be placed in a separate appendix:

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- i. if not already presented (see section VIII.B.2.) area(s) subject to investigation in relation to the Area of Potential Effects (APE) and project boundaries on appropriate U.S.G.S. quadrangles (7.5 or 15 minute series). For survey reports, depict areas surveyed, not surveyed, or surveyed using various strategies. Larger scale maps may also be appropriate to convey information regarding the nature of the investigation.
 - ii. U.S.G.S quadrangle maps showing archaeological resource locations recorded during survey.
 - iii. archaeological resource sketch maps (if the report involves survey) consistent in content and quality with the standards established in the California Archaeological Inventory Handbook for Completing an Archaeological Site Record distributed by the California OHP. If archaeological site records are provided in a detachable appendix to the report, sketch maps may be included with the site records.
 - iv. archaeological site contour maps depicting topographic and archaeological details, and surface and subsurface study locations should be provided, if available, although such maps often are not prepared for inventory reports.
- d. Describe archaeological resources. Provide a description of each resource listed under "Archaeological Resources Observed."
- i. For each archaeological resource, complete a California Archaeological Inventory form (DPR 422A), using the California Archeological Inventory, Handbook For Completing An Archeological Site Record available from the OHP. Insert forms in a confidential Archaeological Resources appendix. Prior to completing the report, submit two copies of each form to the appropriate Information Center of the California Archeological Inventory, requesting state trinomial numbers for each recorded site.
 - ii. If isolated prehistoric resources are recorded, complete one copy of the California Archaeological Isolated Artifact form (DPR 422H) and insert in a confidential Isolated Resources appendix. The OHP encourages the recording of isolated artifacts.
 - iii. Provide a master map (photocopy of appropriate USGS quadrangle) depicting the locations of all archaeological resources. It may not be appropriate to include maps of archaeological resource locations in the body of the report if the report is available to the general public. Archaeological resource locations should appear only in confidential appendices (see Section IX.A.3.c.).

B. Archaeological Excavation Reports

Excavation can occur during any phase of archaeological investigation, including inventory. The description of excavation during these various phases should be scaled to the size of the excavation, the importance of the information to the objectives of the study, and the abundance and quality of information resulting from the excavation. In

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terms of data presentation, no distinction is made here between excavation conducted for evaluative purposes and excavation performed as a data recovery or mitigation phase. Data and interpretation should be presented separately when possible. Summarize the results of lengthy, appended special studies.

1. Describe the physical context of the archaeological deposit, including:
 - a. site topography and geomorphology (if not addressed in Setting)
 - b. soil type, structure, chemistry, stratigraphy and their relationship to surrounding soils. Summarize results of special studies such as particle size analysis and soil chemistry, and include a copy of special studies reports in an appendix.
 - i. non-cultural soil constituents (floral, faunal). Include a summary of special studies and insert reports in an appendix;
 - ii. anthropic soils and stratigraphic relationships.
 - c. profiles of excavation units, trenches, or auger borings, as appropriate,
2. Describe archaeological features. Functional ascriptions/interpretations, such as hearth, oven, housepit, may be unavoidable at this level of data presentation. It may be appropriate to discuss the relationship between feature and non-feature archaeological material distributions (e.g., the relationship between midden deposits and ovens or housepits).
 - a. Describe physical evidence including location, dimensions, attributes, and associations.
 - b. Provide or reference illustrations and photographs of features.
 - c. Either present in full or summarize the results of special studies related to features (e.g., radiocarbon, flotation, micro-constituent analysis, chemical analysis).
3. Enumerate and describe artifacts by material type and artifact class (e.g., flaked-stone). Avoid typological ascriptions that impose or imply function or chronological association in the initial description. For example, biface, uniface, or modified flake is preferable to knife, scraper, or used flake. Such interpretations can follow in a separate subsection, as described below.
 - a. Discuss typological consideration of artifacts such as stone tools, beads, bone and groundstone tools, and historic materials.
 - b. Include illustrations/photographs of formal artifacts. These can be included in an appendix.
 - c. Present the results of analyses of artifact manufacture and use (e.g., flaked-stone manufacturing technology, use-wear studies, pottery analysis, basketry identification). Extensive and detailed analyses may be included in appendices. A summary of the results of these studies should be presented in the body of the

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report. Such studies should define analytic methods and distinguishing traits of analytic categories. For example, if a flaked-stone analysis involved the identification of different types of flakes, then the attributes that define such flake types should be reported. References to previous analyses should not supplant basic descriptions of methods and analytic categories.

- d. Present the results of analyses such as radiocarbon dating, obsidian source and hydration studies, thermoluminescence dating, geomagnetic studies, pollen analysis, blood protein analysis, and others.
4. Describe non-artifactual archaeological material that reflects past human activities (e.g., burned seeds, charred animal bone), and materials that provide information on past environments or exploited resources (e.g., pollen).
 - a. Include identification studies for floral and faunal remains, with interpretations regarding the kinds and amounts of resources used, consumed, etc.
 - b. Present the results of physical analyses such as pollen, microconstituent analysis (flotation, coprolite studies).
5. Describe the context of discovery, examination, and disposition of human remains, if any. Given the often sensitive nature of human remains, examination and treatment of such remains will depend on the outcome of consultation with appropriate Native American representatives and the decisions of land owners regarding the disposition of human remains. Therefore, whether and how human remains and associated grave goods are examined may vary greatly. Similarly, the nature and extent of reporting on the treatment of human remains may vary with the nature of Native American concerns. It may not be possible or appropriate to maintain rigid reporting standards. In general however, the following information is desirable from an archaeological and management standpoint.
 - a. Describe the context of the discovery of human remains. For example, describe if a human burial discovered during excavation was expected, based on consultant information or archaeological indicators.
 - b. Describe measures taken pursuant to state law, local ordinance, agreement, and/or agency policy regarding human remains.
 - c. Describe efforts to consult with the Native American Heritage Commission, appropriate Native American representatives or living descendants, county coroner, landowners, etc.
 - d. Describe outcome of discussions regarding disposition of human remains.
 - e. Describe actions taken with regard to the study of human remains, i.e., exposure, exhumation, analysis, reburial in-situ, reburial after exhumation.
 - i. Describe the location, physical position, orientation, and nature of the remains (e.g., primary inhumation, cremation). Include a description of grave associations and the physical/contextual relationships between human remains and associated artifacts. For example, describe if artifacts were

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overlying or underlying the human remains in a patterned arrangement, or were found within burial pit fill.

- ii. Report the results of analyses, including specialists' reports in an appendix. Description of the remains and reporting the results of any analyses may occur under the reporting of archaeological features (Section IX.B.1.g.). iii. Include photographs and illustrations.
 - iv. Record/report the reburial location on a New Deposit/Redeposit Record (DPR 422I). Such information should be included in a confidential appendix and treated in a manner sensitive to the desires of the most likely descendants of the human remains.
6. Describe the spatial distribution and patterning of cultural material by class (e.g., flaked-stone, bone). Present data on the intrasite distribution of cultural materials, i.e., vertical and horizontal stratigraphy, assisted by data tables.

X. Discussion/Interpretation

Descriptive data presented above should be discussed and interpreted with explicit reference to the research design or study objectives defined earlier in the report. In addition, unanticipated data recovered during the study may warrant discussion of additional research topics not included in the research design.

- A. Discuss results of the investigation as they relate to specific topics and questions presented in research design. Preferably, organize the discussion according to the structure of the research questions, hypotheses, and test implications presented in the research design.
- B. Discuss the results of the study in terms of the general research objectives of the study (e.g., settlement patterns, subsistence, change through time). This discussion should place the investigation in a regional context, noting its role or contribution to an understanding of local, regional, state, or national history or prehistory.

XI. Management Considerations

The discussion of management topics should address the management goals of the study in a manner that is consistent with the specific regulatory process relevant to the ARM study. For example, an inventory report should discuss how complete the study was, the likelihood that additional resources are present in an undertaking APE, and measures that would be necessary to identify such resources. Unfortunately, terminology for similar procedures varies among local, state and federal guidelines or regulations. For example, an archaeological site might considered National Register eligible under the Section 106 process and significant under the Appendix K Guidelines for CEQA. The terms used in an ARM report should be consistent with the terms defined in the relevant guidelines or regulations.

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A. Inventory Reports

1. Identify the management status of resources identified during the study. For example, list archaeological properties that have been determined National Register eligible, important, unimportant, and those that have not been evaluated. If previously recorded and/or evaluated archaeological resources were identified, provide a list of these resources.
2. Describe the completeness of the study and the likelihood that additional, unidentified resources may be present.
3. Outline needs for further management action, such as additional field survey, evaluation of resources, or no further study.

B. Evaluation Reports

Resource evaluation is the cornerstone of the current ARM environment. The outcome of evaluation determines which resources will and will not be protected or considered further. Thoughtful evaluation also establishes the importance of archaeological resources and influences the type of consideration they are afforded.

1. Provide a detailed discussion addressing the significance or uniqueness of each archaeological resource using the criteria for evaluation employed in CEQA: California Environmental Quality Act Statutes and Guidelines, Appendix K or 36 CFR 60.4, as appropriate. Critically consider the full complement of potential reasons (criteria) why a property might be considered important, not simply the most obvious or prominent.
 - a. Consider the role of setting as a contributor to the importance of the resource. Archaeological resources can be eligible for the NRHP under 36 CFR 60.4(a) for their association with events that have contributed to the broad patterns of history or prehistory, under 36 CFR 60.4(c) because they embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value. Under these criteria, setting may contribute substantially to the importance of the resource.
 - b. Describe the integrity of each archaeological resource including an estimate of the percentage of the resource that is disturbed or remains. A consideration of integrity should relate to the reasons a resource is determined important. Thus, the environmental setting or surface of an archaeological site can be completely destroyed or disturbed yet the site may retain integrity if it is important only for the information its subsurface component contains.
 - c. Identify the characteristics and areas of a resource that do and do not contribute to its importance. If the resource is a National Register district, identify the contributing and non-contributing properties within the district and describe the nature of their contribution, to the extent known.

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- i. Present clear evidence that information from the resources can address or contribute to the resolution of important, specific research questions outlined in the research design.
- ii. Summarize or reference, as appropriate, the evidence that indicates the resource contains in appropriate contexts and in sufficient quantity and quality, the material needed to meet the data requirements of the stated hypotheses or research questions documented in Sections IX and X above.
- iii. Evaluate each resource in terms of its overall potential to address important questions or fill data gaps. Compare the resource to others in its local or regional context to determine how much it can help to achieve stated research goals.

C. Assess Effects.

Determining the nature of an undertaking's effects on an archaeological site depends on knowing what makes an archaeological resource important, and what specific ground disturbances or other physical changes are proposed.

For example, two projects may both involve grading. In one case, grading will disturb an archaeological resource important because of the information that it contains. In the other case, grading will disturb an archaeological resource important because it visibly represents a particular human adaptation to specific environmental challenges. In the first case, the assessment of effects might conclude that the information can be acceptably recovered through archaeological excavation. In the second case, there is no way to preserve the association between the site and its surroundings if grading occurs, and the effect of the grading might be considered adverse. The difference in the effect determination is due to the different reasons the archaeological sites were determined important.

The focus of an ARM report (inventory, evaluation, etc.) and what phase of the undertaking is involved will largely determine whether or not an assessment of effects can be included in the report. Lack of project design information or unevaluated resources are just two of many factors that could preclude an assessment of effects.

1. Discuss or reference a previous discussion of the general undertaking (see Section V-D). Discuss the likely effects the undertaking may have on each important archaeological resource. Use appropriate regulatory language and reference the local, state, or federal regulations or guidelines under which the effects of the undertaking are determined. Explain each determination.
 - a. Discuss anticipated direct and indirect impacts to archaeological resources. Direct impacts include destruction, alteration, and isolation of the property of its setting, when setting is a characteristic contributing to the importance of the resource. While 36 CFR Part 800 does not distinguish between direct and indirect effects, anticipated indirect impacts of an undertaking should be presented. Indirect impacts could include growth inducement, increased public use, erosion of resources outside the undertaking area. It is also appropriate to discuss beneficial effects in addition to adverse effects.

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2. For reports involving multiple resources, include a table listing all resources. Provide your opinion on the importance of each resource and identify the effect of the undertaking on each (e.g., no effect, effect, no adverse effect, adverse effect).

D. Consider Alternatives and Propose Management Actions

1. For each significant or unique resource that may be affected, discuss a range of possible measures to avoid or minimize an adverse effect. Examples include:
 - a. relocation or redesign of the undertaking;
 - b. preservation measures (e.g., site burial, erosion slope stabilization, vegetation cover, signing, public access restrictions, site monitoring);
 - c. data recovery for portions of selected resources; and
 - d. no undertaking.
2. Discuss the preferred alternative offering a rationale for this preference. This discussion may address the merits of the undertaking, the mission and needs of the agency, etc.

E. Recommendations/Proposals

Recommendations and proposals for further action can take a wide variety of forms depending on the nature of the ARM study and the undertaking.

1. Inventory Reports

- a. Inventory complete. Inventory reports may conclude that efforts to locate archaeological resources have been sufficient. The inventory may lead to one of the following conclusions and recommendations:
 - i. No resources were identified. The proposed undertaking does not involve or affect archaeological resources.
 - ii. Resources are present. Depending on the type of resources involved and the type of undertaking proposed, one of the following recommendations may be appropriate:
 - Only unimportant resources are present. No further consideration is necessary.
 - Archaeological resources are present but because of preventive measures, will not be affected by the undertaking.
 - Archaeological resources are present. Evaluation of these resources is necessary.

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- Sufficient information exists to evaluate resources. Offer recommendations regarding the importance of the resources. Often this is not possible for archaeological deposits on the basis on surface inspection alone.
 - b. Inventory incomplete. An initial effort to locate archaeological resources may reveal that a different level of effort or additional inventory work is necessary. This section should identify the constraints, limitations, or rationale behind the recommendation for additional work and offer specific recommendations for additional inventory.
2. Evaluation Reports
- a. Evaluation results are summarized and conclusions or recommendations regarding the importance of archaeological resources are presented. When necessary, insert the following sorts of items in a confidential appendix:
 - i. State Historical Landmarks nominations.
 - ii. National Register of Historic Places nominations.
 - iii. National Register eligibility opinions.
 - iv. Opinions on the importance of the resources under CEQA.
 - b. Provide conclusions regarding the effect of the undertaking on important archaeological resources (e.g., no effect, no adverse effect, adverse effect). Recommend further studies or actions such as mitigation or other treatment for identified effects.
3. Treatment Reports
- a. After mitigation, such as data recovery, has been completed, state whether the resource retains significance and propose additional measures needed to protect the resource or to recover additional significant information.
 - b. Discuss how effectively the treatment program met expectations.

XII. References (Use of American Antiquity format is encouraged).

XIII. Appendices

Depending on the type and purpose of the archaeological report, some of the following information may or may not be appropriate. In addition, investigators preparing archaeological reports for publication or wide distribution in addition to regulatory review, may wish to exclude some of the administrative information from the body of the report and instead include such information as a detached appendices or attachments.

- A. Personnel qualification statements, briefs, or resumes.

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B. Record search results.

1. Provide a copy of the Information Center record search, if conducted by Information Center staff.
2. If a records search is conducted at an Information Center by a qualified consultant, provide a copy of a receipt or evidence of such a search as well as a report of the results of that search, if not already included in the report. Archaeological site locations must not be disclosed in documents accessible to the general public. Confidential appendices that report site locations should contain statements requesting that their distribution be carefully controlled (see Section XIV).

C. Repository agreements.

D. Reviewer comments/agency correspondence.

E. Artifact/Collection catalog.

F. Artifact illustrations (if not in body of text).

G. Photographs and photo records.

H. Native American observer or monitor agreements.

I. Maps (non-confidential) and undertaking plans, drawings, etc.

J. Special studies/technical reports.

XIV. Confidential Appendices

Archaeological and sensitive Native American site locations and maps should not be included in copies of reports for general distribution. Archaeological site locations are exempted from the California Freedom of Information Act, as specified in Government Code 6254.10. However, review and regulatory agencies often need such information for management purposes. The placement of such information in a Confidential Appendix fulfills that need.

A. General Historical and Archaeological Resource Location Map (depicting locations of all properties within a study area).

B. Resource Inventory Records.

1. Historic Resources Inventory forms and maps (consistent with DPR 523).
2. Archaeological Site Record forms and maps (consistent with DPR 422).
3. Isolated Artifact forms and maps.

C. Native American sacred site location maps or descriptions, if regarded as sensitive. If not obtained from the Native American Heritage Commission (NAHC), disclosure of such

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information should occur only after coordinating with the NAHC and with appropriate groups and individuals recommended by the NAHC.

D. Heritage Nomination Forms.

1. National Register of Historic Places forms.
2. National Historic Landmark forms.
3. Registered State Historical Landmark forms.
4. State Point of Historical Interest forms.

XV. Further Reading and Guidance - Selected References

The following references are recommended for further information and guidance. Copies of many of these references, or information on their availability, can be obtained from the California Office of Historic Preservation, P.O. Box 942896, 1416 Ninth Street, Sacramento, California 94296-0001, (916) 445-8006.

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Laws and Regulations

National Historic Preservation Act of 1966. Public Law 89-665; STAT. 915; U.S.C. 470, as amended by Public Law 91-243, Public Law 94-458, Public Law 96-199, Public Law 96-244, and Public Law 96-515.

Protection of Historic Properties (36 CFR Part 800). Federal Register, Vol. 51, No. 169. September 1986.

National Register of Historic Places (36 CFR Part 60).

National Register of Historic Places (36 CFR Parts 60 and 63). Proposed Rule. Federal Register, Vol. 51, No. 150. August 5, 1986.

Curation of Federally-Owned and Administered Archeological Collections (36 CFR 79). Proposed Rule. Federal Register, Vol. 52, No. 167. August 28, 1987.

Uniform Rules and Regulations: Archeological Resources Protection Act of 1979 (43 CFR Part 7). Federal Register, Vol. 43, No. 4. January 6, 1984.

CEQA: California Environmental Quality Act Statutes and Guidelines. Office of Planning and Research, Office of Permit Assistance, Sacramento, California, 1986.

California Health and Safety Code, Section 7050.5.

California Public Resources Code, Section 5097.

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Department of the Interior Guidance

Secretary of Interior's Standards and Guidelines for Archeology and Historic Preservation. Federal Register, Vol. 48, No. 190, September 29, 1983.

Guidelines for Federal Agency Responsibilities under Section 110 of the National Historic Preservation Act. Federal Register, Vol. 53, No. 31. February 17, 1988.

The Section 110 Guidelines: Annotated Guidelines for Federal Agency Responsibilities under Section 110 of the National Historic Preservation Act. Jointly issued by the Advisory Council on Historic Preservation and the National Park Service, U.S. Department of the Interior, Washington, D.C. 1989.

The Curation and Management of Archeological Collections: A Pilot Study. Alexander J. Lindsay, et al. Cultural Resources Management Series. U.S. Department of the Interior, Washington, D.C. September 1980.

Archeological Survey: Methods and Uses. Thomas F. King. National Park Service, U.S. Department of the Interior, Washington, D.C. 1978.

Using UTM Grid System to Record Historic Sites. Heritage Conservation and Recreation Service, U.S. Department of the Interior, Washington, D.C. 1980.

How to Apply the National Register Criteria for Evaluation. (Bulletin 15). National Park Service, U.S. Department of the Interior, Washington, D.C. 1982.

National Register Bulletin Series. National Park Service, Department of the Interior, Washington, D.C.

Quantifying the Present and Predicting the Past: Theory, Method, and Application of Archaeological Predictive Modeling; Bureau of Land Management, U.S. Department of the Interior, Washington, D.C. 1987.

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Advisory Council on Historic Preservation Guidance

Section 106, Step-by-Step. Advisory Council on Historic Preservation, Washington, D.C. 1986.

Treatment of Archeological Properties: A Handbook. Advisory Council on Historic Preservation, Washington, D.C. 1981.

Fact Sheet: A Five-Minute Look at Section 106 Review. Advisory Council on Historic Preservation, Washington, D.C. 1988.

Fact Sheet: Programmatic Agreements under Section 106. Advisory Council on Historic Preservation, Washington, D.C. 1988.

Fact Sheet: Section 106 Participation by Applicants for and Recipients of Federal Assistance, Permits, and Licenses. Advisory Council on Historic Preservation, Washington, D.C. 1988.

Fact Sheet: Section 106 Participation by Indian Tribes and Other Native Americans. Advisory Council on Historic Preservation, Washington, D.C. 1988.

Fact Sheet: Section 106 Participation by Local Governments. Advisory Council on Historic Preservation, Washington, D.C. 1988.

Identification of Historic Properties: A Decisionmaking Guide for Managers. Advisory Council on Historic Preservation, Washington, D.C. 1988.

Public Participation in Section 106 Review: A Guide for Agency Officials. Advisory Council on Historic Preservation, Washington, D.C. 1989.

Preparing Agreement Documents. Advisory Council on Historic Preservation, Washington, D.C. 1989.

Federal Historic Preservation Case Law -- A Special Report. Advisory Council on Historic Preservation, Washington, D.C.

Recommended Outline: Ideal Data Recovery Plan. Advisory Council on Historic Preservation, Washington, D.C.

Where to Look: A Guide to Preservation Information. Advisory Council on Historic Preservation, Washington, D.C. 1983.

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Miscellaneous Guidance and Readings

Appendix K, Archaeological Impacts. In CEQA: California Environmental Quality Act Statutes and Guidelines. Office of Planning and Research, Office of Permit Assistance, Sacramento, California, 1986.

Scholars as Contractors. William J. Mayer-Oakes and Alice W. Portnoy, editors. Cultural Resource Management Studies. National Park Service, U.S. Department of the Interior, Washington, D.C. 1979.

Scholars as Managers, or How the Managers Can Do It Better. Alice W. Portnoy, editor. National Park Service, U.S. Department of the Interior, Washington, D.C. 1979.

Guidelines for Cultural Resource Management (CRM) Reports. San Bernardino County Archaeological Information Center, San Bernardino, California.

California Archaeological Inventory Handbook for Completing An Archaeological Site Record. California Office of Historic Preservation, Sacramento, California. 1989.

California Archaeological Site Inventory Information Center Procedural Manual. California Office of Historic Preservation, Sacramento, California.

California Archaeological Resource Identification and Data Acquisition Program: Sparse Lithic Scatters. California Office of Historic Preservation, Sacramento, California, 1988.

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Checklist for Preparing and Reviewing Archaeological Resource Management Reports

Name of Undertaking:

Name of Report:

Reviewer/Agency: Date:

I. Cover Letters (see page 1 of ARMR Guidelines)

- A. Provide the undertaking's name and location, and any identifying number.
- B. State agency name and where applicable, district, region, section, or branch.
- C. Briefly describe the undertaking (type, acreage, components, scheduling).
- D. Describe the point that compliance with historic preservation law has reached.
- E. Describe the phase and/or type of investigation addressed by the document.
- F. Describe the results of the investigation.
- G. Indicate what compliance action is being requested under applicable laws.
- H. Name agency contact person administering, or most familiar with the undertaking and study.

II. Title Page (page 2)

- A. List the authors and consulting firm.
- B. Date the report by month and year.
- C. Present the report title.
- D. Identify the entity (e.g., agency, local government) submitting the report.
- E. Identify the party to whom the document was submitted and contract number, if any.
- F. Reference the contract number/federal agency permit number.
- G. Cite the U.S.G.S. topographic quadrangles depicting study area.
- H. List the acreage included in the study.
- I. List keywords.

III. Table of Contents (if text of report exceeds 10 pages [see page 3])

- A. List major report sections, subheadings, and appendices, with page numbers.
- B. Provide a list of maps with page numbers.
- C. List figures with page numbers.
- D. List tables with page numbers.

IV. Management Summary/Abstract (page 3)

- A. Describe the purpose and scope of the archaeological investigation.
- B. List the date(s) of the investigation.
- C. Summarize the major findings of the investigation.
- D. If resources have been evaluated, summarize their significance/uniqueness.
- E. Discuss how the undertaking affects significant resources.
- F. Describe constraints on the investigation (e.g., time, finances, logistics).
- G. Offer a summary of recommendations.
- H. Describe the disposition of field notes, collections, and reports.

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- V. Undertaking Information/Introduction (page 4 of ARMR Guidelines)
 - A. Identify the contracting institution, contract and permit numbers, etc.
 - B. Explain why the study was conducted.
 - C. Describe the undertaking (include maps).
 - D. Include a schedule for the undertaking.
 - E. Identify the geographical limits of ARM study area.
 - F. Describe how personnel were organized and list participants (qualifications in appendix).
- VI. Setting (page 4)
 - A. Natural Setting (e.g., landforms, geology, soils, flora, fauna; current land use).
 - B. Cultural Setting (include records and literature search results).
- VII. Research Design (page 6)
 - A. Discuss the theoretical basis of the proposed research.
 - B. Summarize previous research.
 - C. Present testable hypotheses or state the research goals.
 - D. Identify the test implications of the hypotheses or expected archaeological information.
- VIII. Methods (page 6)
 - A. Present definitions for archaeological resource types.
 - B. Describe the methods employed and map the areas investigated.
 - C. Indicate where collected materials, photos, etc., are curated.
- IX. Report of Findings (page 8)
 - A. Archaeological Resource Inventory Reports
 - 1. Present results (list resources present or absent).
 - 2. Include site records and location maps in confidential appendices.
 - B. Archaeological Excavation Reports
 - 1. Describe the physical context of the archaeological deposit.
 - 2. Describe archaeological features, artifacts, materials (ecofacts).
 - 3. Describe the discovery, examination, and disposition of human remains.
- X. Discussion/Interpretation (page 12)
 - A. Discuss results of the investigation as they relate to specific research design items.
 - B. Discuss results of the study in terms of general research objectives.
- XI. Management Considerations (page 12)
 - A. Inventory Reports
 - 1. Identify the management status of resources identified during the study.

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- 2. Describe the completeness of the study and likelihood of unidentified resources.
 - 3. Outline the need for further management actions.
 - B. Evaluation Reports
 - 1. Discuss significance or uniqueness of each archaeological resource.
 - 2. Discuss the integrity of each archaeological resource.
 - C. Assess Effects
 - C. Consider Alternatives/Proposed Management Actions
 - 1. Discuss possible measures to avoid/minimize impacts to resources.
 - 2. Discuss the preferred alternative and rationale behind the preference.
 - E. Recommendations/Proposals
- XII. References (page 16)
- XIII. Appendices (Include sections listed below as appropriate, page 16).
- A. Personnel qualifications (provide briefs or resumes)
 - B. Record search results.
 - C. Repository agreements.
 - D. Reviewers comments/agency correspondence.
 - E. Artifact/Collection catalog.
 - F. Artifact illustrations (if not in body of text).
 - G. Photographs and photo records.
 - H. Native American observer or monitor agreements.
 - I. Maps (non-confidential) and undertaking plans, drawings, etc.
 - J. Special studies/technical reports.
- XIV. Confidential Appendices (page 17)
- A. Historical and Archaeological Resource Location Maps
 - B. Resource Inventory Records for archaeological sites and historic structures.
 - C. Native American sacred site location maps or descriptions.
 - D. Heritage Nomination forms.

This publication was partially financed with federal funds from the National Park Service, Department of the Interior, under the National Historic Preservation Act of 1966. The contents do not necessarily reflect the views or policies of the Department of the Interior, nor does the mention of trade names or commercial products constitute endorsement or recommendation by the Department of the Interior.

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race, color, national origin, age or handicap. Any person who believes he or she has been discriminated against in any program, activity, or facility operated by a recipient of Federal assistance should write to: Director, Equal Opportunity Program, U.S. Department of the Interior, National Park Service, P.O. 37127, Washington, D.C. 20013- 7127.

Message

From: Paul Hellman [phellman@co.shasta.ca.us]
Sent: 2/3/2023 9:28:44 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: Rubin Cruse [rcruse@co.shasta.ca.us]; Mary Williams [mewilliams@co.shasta.ca.us]; James Ross [jross@co.shasta.ca.us]
Subject: RE: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Lon,

I have signed up for the project list serve but do not know if any other County officials have done so yet. When I receive notification regarding the completeness determination, I will share this information Ms. Williams, Mr. Cruse, Mr. Ross and others in case they did not receive notification directly from your office.

Thanks,

Paul Hellman, Director
Shasta County Department of Resource Management
(530) 225-5114
<https://www.co.shasta.ca.us/index/drm>

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Friday, February 3, 2023 12:09 PM
To: Paul Hellman <phellman@co.shasta.ca.us>
Cc: Rubin Cruse <rcruse@co.shasta.ca.us>; Mary Williams <mewilliams@co.shasta.ca.us>; James Ross <jross@co.shasta.ca.us>
Subject: Re: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

EXTERNAL SENDER: Do not follow links or open attachments unless you recognize the sender and know the content is safe.

The completeness determination has not been made yet—we expect that to be docketed on Friday Feb 10.

Have you and the other Shasta County employees interested in the project been able to sign up for the project list serve yet? That is how notification will be provided—those who have subscribed to the list serve will get an email notice that the deficiency letter has been docketed, and that notice will include a link so people can access it.

You can subscribe to the list serve via the project web page: <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>

Look for a box on the lower right that says "SUBSCRIBE FOUNTAIN WIND PROJECT" and submit a valid email address, then click the SUBSCRIBE button.

Lon Payne--Project Manager
 California Energy Commission

From: Paul Hellman <phellman@co.shasta.ca.us>
Sent: Friday, February 3, 2023 11:56 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Rubin Cruse <rcruse@co.shasta.ca.us>; Mary Williams <mewilliams@co.shasta.ca.us>; James Ross <jross@co.shasta.ca.us>
Subject: RE: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Lon,

Thank you for this notice. We are in the process of reviewing and preparing responses to it. Acting County Executive Officer (CEO) Patrick Minturn retired at the end of last month and Deputy CEO Mary Williams has been appointed by the Board of Supervisors as Acting CEO until a permanent CEO is hired. Ms. Williams email address is mewilliams@co.shasta.ca.us; please add Ms. Williams to your contact list in place of Mr. Minturn.

According to a January 13th memorandum from yourself to the Docket Unit posted on the web page for the project, your office will be making an application completeness determination on or before February 11th. I would like to know if a completeness determination has been made yet and, if not, I am requesting that your office notify myself and the other Shasta County officials copied on this email once a determination has been made.

Sincerely,
Paul Hellman, Director
Shasta County Department of Resource Management
(530) 225-5114
<https://www.co.shasta.ca.us/index/drm>

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, January 25, 2023 9:13 AM
To: Paul Hellman <phellman@co.shasta.ca.us>; Rubin Cruse <rcruse@co.shasta.ca.us>; James Ross <jross@co.shasta.ca.us>; Pat Minturn CEO <pjminturn@co.shasta.ca.us>; Lio Salazar <lsalazar@co.shasta.ca.us>
Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>
Subject: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

EXTERNAL SENDER: Do not follow links or open attachments unless you recognize the sender and know the content is safe.

The California Energy Commission (CEC) provides the following notice pursuant to Cal. Pub. Resources Code (PRC) § 25545.8, which states that subsections (f) and (k) of PRC § 25519 apply to an Opt-in application.

The relevant language from PRC § 25519 is as follows:

(f) Upon receipt of an application, the commission shall forward the application to local governmental agencies having land use and related jurisdiction in the area of the proposed site and related facility. Those local agencies shall review the application and submit comments on, among other things, the design of the facility, architectural and aesthetic features of the facility, access to highways, landscaping and grading, public use of lands in the area of the facility, and other appropriate aspects of the design, construction, or operation of the proposed site and related facility.

(k) The commission shall transmit a copy of the application to any governmental agency not specifically mentioned in this act, but which it finds has any information or interest in the proposed site and related facilities, and shall invite the comments and recommendations of each agency. The commission shall request any relevant laws, ordinances, or regulations that an agency has promulgated or administered.

CEC has set up a web page for the project at this address: <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>

The documents which comprise the Opt-in application can be found in the project docket, which is accessible via the project webpage or directly at: <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=23-OPT-01>

The key document for understanding how to locate relevant information in the application is the "crosswalk matrix" document provided by the applicant, which can be accessed here: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=248321&DocumentContentId=82718>

The Project Description can be accessed directly here: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=248322&DocumentContentId=82719>

Please note the review and commenting obligations placed on Shasta County to comply with PRC § 25519(f). We look forward to receiving your comments at your earliest convenience.

Pursuant to PRC § 25519(k), CEC invites the comments and recommendations of Shasta County, and requests that you send us any relevant laws, ordinances, or regulations that Shasta County has promulgated or administered that are applicable to the proposed project.

CEC also wishes to make Shasta County aware that (PRC) § 25545.8 also states that PRC § 25538 applies to an Opt-in application. The relevant language is as follows:

(PRC) § 25538

Upon receiving the commission's request for review under subdivision (f) of Section 25519 and Section 25506 , the local agency may request a fee from the commission to reimburse the local agency for the actual and added costs of this review by the local agency. The commission shall reimburse the local agency for the added costs that shall be actually incurred by the local agency in complying with the commission's request.

Feel free to reach out to me directly via email if you have any questions about this notice. Thank you.

Leonidas Payne--Project Manager

California Energy Commission



AB 205 Opt-In Application Information Checklist for Lake and Streambed Alteration Authorization under Fish and Game Code Section 1602

The application must include the following to ensure timely review and minimize the need for additional information requests.

- ☐ Information required in California Fish and Game Code sections 1602(a)(1)(A)-(F)
- ☐ State if the river or stream segment affected by the project is listed in the state or federal Wild and Scenic Rivers Acts.
- ☐ Describe the project in detail. Include photographs of the project location and immediate surrounding area.
- ☐ A written description of all project activities with detailed step-by-step description of project implementation. Include any structures (e.g., rip-rap, culverts) that will be placed or modified in or near the stream, river, or lake, and any channel clearing.
- ☐ Specify volume, and dimensions of all materials and features (e.g., rip rap fields) that will be used or installed.
- ☐ If water will be diverted or drafted, specify the purpose or use. Additional information may be requested regarding water diversions.
- ☐ Enclose diagrams, drawings, design plans, construction specifications, and maps that provide all of the following: site specific construction details; dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; and an overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, stockpile areas, areas of temporary disturbance, and where the equipment/machinery will access the project area all overlayed on an aerial showing hydrologic features and connectivity on the site. Include acreage of impacts.
- ☐ Specify the equipment and machinery that will be used to complete the project.
- ☐ Anticipated seasonal work period (start date, end date, and number of working days anticipated each calendar year). Anticipated duration of the project.
- ☐ State if water will be present during the proposed work period in the stream, river, or lake.

- ❑ State if the project will require work in the wetted portion of the channel.
- ❑ Describe impacts to the bed, channel, and bank of the river, stream, or lake, and the associated riparian habitat. Specify the dimensions of the modifications in length (linear feet) and area (square feet or acres) and the type and volume of material (cubic yards) that will be moved, displaced, or otherwise disturbed, if applicable.
- ❑ Describe if the project will affect any vegetation. If yes, provide the information below. If no, include aerial photo with date supporting this determination. List the permanent and temporary impacts (in linear feet and total area) to each vegetation type. List each tree species, number of trees of that species to be removed, and the range of trunk diameters per species.
- ❑ State whether a biological study has been completed for the project site. If so, please provide a copy. A biological assessment or study may be required to evaluate potential project impacts on biological resources.
- ❑ Describe if one or more technical studies (e.g., engineering, hydrologic, geological, or geomorphological) have been completed for the project or project site. If so, please provide copies. One or more technical studies may be required to evaluate potential project impacts to a lake, river, or stream.
- ❑ Describe the techniques that will be used to prevent sediment, hazardous, or other deleterious materials from entering watercourses during and after construction.

Message

From: Payne, Leonidas@Energy [leonidas.payne@energy.ca.gov]
Sent: 1/25/2023 5:58:06 PM
To: Bradley, Mike@CALFIRE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2604b6db1234425b8dab239e04a7035f-CALFIREmbra]; Rowe, Benjamin@CALFIRE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=303fa72bcb204f7b8aedd79260886f6b-CALFIREBRow]; Bill.Solinsky@fire.ca.gov; Huff, Eric@CALFIRE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=69bdceb0fe644e5c80108d4ccd189eb5-CALFIREEHuf]; Ramaley, John@CALFIRE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=88750f144a344f17ae11b0ed3fe6134c-CALFIREJRam]; Hall, Dennis@CALFIRE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=77590e80749346788573760dd8d5cc77-CALFIREDhal]; marcelino.gonzalez@dot.ca.gov; Grah, Kathy M@DOT [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f5c5b336545a4878b46e0fd19c221950-s118181]; moustafa.abou-taleb@caloes.ca.gov; Jeff.Brown@dot.ca.gov; scott.Morgan@opr.ca.gov; Matthew.P.Kelley@usace.army.mil; jmata@blm.gov; jennifer_norris@fws.gov; Miranda, Laura@NAHC [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e82418b944f34757875e0ba64b38176f-Laura.Miran]; Polanco, Julianne@Parks [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ef9c026713474402bada5456ebffaeaa-parksJPOLAN]; Saunders, Jenan@Parks [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e1e4103eeacc40dba90c40dd6a7d88c0-parksjsaund]; Larsen, Shane@CALFIRE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b8b49a256149424f8c804e261d0c12ae-CALFIREslar]
Subject: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

The California Energy Commission (CEC) provides the following notice pursuant to Cal. Pub. Resources Code (PRC) § 25545.8, which states that subsections (g) and (k) of PRC § 25519 apply to an Opt-in application.

The relevant language from PRC § 25519 is as follows:

(g) The commission shall transmit a copy of the application to each federal and state agency having jurisdiction or special interest in matters pertinent to the proposed site and related facilities and to the Attorney General.

(k) The commission shall transmit a copy of the application to any governmental agency not specifically mentioned in this act, but which it finds has any information or interest in the proposed site and related facilities, and shall invite the comments and recommendations of each agency. The commission shall request any relevant laws, ordinances, or regulations that an agency has promulgated or administered.

CEC has set up a web page for the project at this address: <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>

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Feel free to reach out to me directly via email if you have any questions about this notice. Thank you.

Leonidas Payne--Project Manager
California Energy Commission

Message

From: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Sent: 1/25/2023 5:20:30 PM
To: AGelectronicsservice@doj.ca.gov
Subject: Notice of application receipt for Fountain Wind project (23-OPT-01)

The California Energy Commission (CEC) provides the following notice pursuant to Cal. Pub. Resources Code (PRC) § 25545.8, which states that certain subsections of PRC § 25519 are applicable. PRC § 25519(g) states, in part: "The commission shall transmit a copy of the application to each federal and state agency having jurisdiction or special interest in matters pertinent to the proposed site and related facilities *and to the Attorney General.*" (emphasis added)

CEC has set up a web page for the project at this address: <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>

The documents which comprise the Opt-in application can be found in the project docket, which is accessible via the project webpage or directly at: <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=23-OPT-01>

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Leonidas Payne--Project Manager
California Energy Commission

Message

From: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Sent: 1/25/2023 5:12:53 PM
To: Paul Hellman [phellman@co.shasta.ca.us]; Rubin Cruse [rcruse@co.shasta.ca.us]; James Ross [jross@co.shasta.ca.us]; Pat Minturn CEO [pjminturn@co.shasta.ca.us]; Lio Salazar [lsalazar@co.shasta.ca.us]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Emigh, Kyle@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ae4d86b0cb6a4f318c4e9e6fb5e82008-Emigh, Kyle]
Subject: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

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The relevant language from PRC § 25519 is as follows:

(f) Upon receipt of an application, the commission shall forward the application to local governmental agencies having land use and related jurisdiction in the area of the proposed site and related facility. Those local agencies shall review the application and submit comments on, among other things, the design of the facility, architectural and aesthetic features of the facility, access to highways, landscaping and grading, public use of lands in the area of the facility, and other appropriate aspects of the design, construction, or operation of the proposed site and related facility.

(k) The commission shall transmit a copy of the application to any governmental agency not specifically mentioned in this act, but which it finds has any information or interest in the proposed site and related facilities, and shall invite the comments and recommendations of each agency. The commission shall request any relevant laws, ordinances, or regulations that an agency has promulgated or administered.

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Please note the review and commenting obligations placed on Shasta County to comply with PRC § 25519(f). We look forward to receiving your comments at your earliest convenience.

Pursuant to PRC § 25519(k), CEC invites the comments and recommendations of Shasta County, and requests that you send us any relevant laws, ordinances, or regulations that Shasta County has promulgated or administered that are applicable to the proposed project.

CEC also wishes to make Shasta County aware that (PRC) § 25545.8 also states that PRC § 25538 applies to an Opt-in application. The relevant language is as follows:

(PRC) § 25538

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Feel free to reach out to me directly via email if you have any questions about this notice. Thank you.

Leonidas Payne--Project Manager
California Energy Commission

Message

From: Barns, Caitlin [Caitlin.Barns@stantec.com]
Sent: 2/22/2023 9:18:08 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Subject: RE: Fountain Wind check-in call
Attachments: data_requests_with_blanks.xlsx

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sounds good. We're coming up with a list of questions. We're also working on the "it's gonna take more than 30 days" response letter—is there anything specific you'd like to see in that? Do you have a template?

Attached is a spreadsheet with all the data requests that have blanks in column G ("Info needed to make AFC conform with regs").

Thanks!
 Caitlin

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, February 22, 2023 11:39 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

We can set up calls, but it would be good to email me the specific questions in advance so we can figure out how long the calls need to be and who might need to be there on our end.

As for the "what information is needed" issue, let me know the technical topics where that issue has come up—I can have those folks amend the worksheets.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Wednesday, February 22, 2023 10:49 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

No problem. Yes, a few questions: can we set up series of calls with your technical specialists to walk through some questions we have on the data requests? And as I am organizing the data requests I noticed that quite a few don't have anything written in the "what information is needed to ensure adequacy?" boxes in the matrix—how should we proceed with these?

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, February 22, 2023 10:47 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

need to cancel again. if you have specific questions regarding info requests, please email them to me. I will see the email even though you will get an out of office message.

From: Barns, Caitlin

Sent: Wednesday, January 18, 2023 1:22 PM

To: Barns, Caitlin <Caitlin.Barns@stantec.com>; Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>

Subject: Fountain Wind check-in call

When: Wednesday, February 22, 2023 12:30 PM-1:00 PM.

Where: Microsoft Teams Meeting

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon, thought it would be good to set up a weekly call to check in on the Fountain Wind application. Let me know if there's anyone else you'd like me to add to the call or if you'd prefer another time. Thanks!

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 267 737 602 838

Passcode: 3L2e69

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

+1 587-414-2460,,58373190# Canada, Edmonton

(833) 266-3861,,58373190# Canada (Toll-free)

Phone Conference ID: 583 731 90#

[Find a local number](#) | [Reset PIN](#)



[Learn More](#) | [Meeting options](#)

Caution: This email originated from outside of Stantec. Please take extra precaution.

Attention: Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

Caution: This email originated from outside of Stantec. Please take extra precaution.

Attention: Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

Message

From: Payne, Leonidas@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: 2/27/2023 3:37:34 PM
To: David Robinson [D.Robinson@fehrandpeers.com]
CC: Kerr, Steven@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d0d5a66bed2249fca830918f58b3b921-Kerr, Steve]
Subject: Re: Comments from Caltrans on Fountain Wind project (23-OPT-01)

OK, good to know. I have it in the project folder, so at least it will be available for the admin record when that is compiled.

From: David Robinson <D.Robinson@fehrandpeers.com>
Sent: Monday, February 27, 2023 7:27 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Cc: Kerr, Steven@Energy <Steven.Kerr@energy.ca.gov>
Subject: RE: Comments from Caltrans on Fountain Wind project (23-OPT-01)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hey Lon,

This seems more procedural and not specific to the adequacy of the analysis or guidance on the methodology. I don't think we will need to be docketed.

Thanks,
 Dave



David B. Robinson, PE
 Principal

916.329.7332



555 Capitol Mall | Suite 510
 Sacramento, CA 95814

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Monday, February 27, 2023 6:51 AM
To: David Robinson <D.Robinson@fehrandpeers.com>
Cc: Kerr, Steven@Energy <Steven.Kerr@energy.ca.gov>
Subject: Fw: Comments from Caltrans on Fountain Wind project (23-OPT-01)

[EXTERNAL EMAIL]

These comments from Caltrans came in late last week while I was out of the office. If you think you'll need to reference this email directly in your technical section, let me know and I'll arrange for it to be docketed.

Lon Payne--Project Manager
 California Energy Commission

From: Caruso, Brenda@DOT <Brenda.H.Caruso@dot.ca.gov>
Sent: Friday, February 24, 2023 9:25 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Cc: Grah, Kathy M@DOT <kathy.grah@dot.ca.gov>; Clark, Cherie D@DOT <cherie.clark@dot.ca.gov>; Battles, Michael@DOT <Michael.Battles@dot.ca.gov>
Subject: RE: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Leonidas,

Thank you for the opportunity to review and comment on the Notice of Application for the Fountain Wind Project in Shasta County. Below are the comments submitted from Caltrans functional units at District 2. Please let me know if you would like me to submit these comments in a different format and I would be happy to comply.

1. Caltrans recommends early and frequent interactions regarding travel routes, size of trucks, size of wind tower components, etc.
2. Caltrans has prepared a traffic management plan for the previous movement of components. This needs to occur again and will require interaction with our encroachment permit office.
3. Caltrans recommends the company to hire a traffic management consultant.
4. The California Highway Patrol will need to be included and involved through the various phases of the construction of the project.
5. Bunch Grass Lookout Road serves a Caltrans maintenance facility. Please avoid any impacts to Caltrans operations as well as damage to our access road.

Thanks again for the opportunity to review.

Sincerely,

Brenda Hernandez Caruso
 Associate Transportation Planner
 Regional Planning and Local Development Review
 Caltrans District 2
 Work Cell: (530) 782-3399

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Thursday, February 2, 2023 7:41 AM
To: Caruso, Brenda@DOT <Brenda.H.Caruso@dot.ca.gov>
Cc: Grah, Kathy M@DOT <kathy.grah@dot.ca.gov>
Subject: Re: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

EXTERNAL EMAIL. Links/attachments may not be safe.

No specific date—comments anytime are fine.

No tentative date for workshop—we won't have a good idea of when that will take place until we are ready to declare the application complete.

The best way to stay abreast of developments in our evaluation is to sign up for the project list serve (that can be done via the project webpage), so I hope that you and any others at Caltrans who are interested in the project will do so.

Lon Payne--Project Manager
California Energy Commission

From: Caruso, Brenda@DOT <Brenda.H.Caruso@dot.ca.gov>
Sent: Wednesday, February 1, 2023 10:36 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Cc: Grah, Kathy M@DOT <kathy.grah@dot.ca.gov>
Subject: RE: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Leonidas,

I will be routing this Notice of Application for review and comment. Did you have a specific date by when you would like to receive comments? Also, do you have dates for the tentative workshops that I could share with my contacts?

I appreciate your assistance.

Thank you,

Brenda Hernandez Caruso
Associate Transportation Planner
Regional Planning and Local Development Review
Caltrans District 2
Work Cell: (530) 782-3399

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, January 25, 2023 9:58 AM
To: Bradley, Mike@CALFIRE <mike.bradley@fire.ca.gov>; Rowe, Benjamin@CALFIRE <Benjamin.Rowe@fire.ca.gov>; Bill.Solinsky@fire.ca.gov; Huff, Eric@CALFIRE <Eric.Huff@fire.ca.gov>; Ramaley, John@CALFIRE <John.Ramaley@fire.ca.gov>; Hall, Dennis@CALFIRE <Dennis.Hall@fire.ca.gov>; marcelino.gonzalez@dot.ca.gov; Grah, Kathy M@DOT <kathy.grah@dot.ca.gov>; moustafa.abou-taleb@caloes.ca.gov; Jeff.Brown@dot.ca.gov; scott.Morgan@opr.ca.gov; Matthew.P.Kelley@usace.army.mil; jmata@blm.gov; jennifer_norris@fws.gov; Miranda, Laura@NAHC <Laura.Miranda@nahc.ca.gov>; Polanco, Julianne@Parks <Julianne.Polanco@parks.ca.gov>; Saunders, Jenan@Parks <Jenan.Saunders@parks.ca.gov>; Larsen, Shane@CALFIRE <Shane.Larsen@fire.ca.gov>
Subject: Notice of application receipt for Fountain Wind project (23-OPT-01) / request for comments and information

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Feel free to reach out to me directly via email if you have any questions about this notice. Thank you.

Leonidas Payne--Project Manager
California Energy Commission

Message

From: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Sent: 2/27/2023 9:35:13 PM
To: Barns, Caitlin [Caitlin.Barns@stantec.com]
Subject: Re: Fountain Wind check-in call

Give me a call before 2:30pm today if you can. I started digging into your spreadsheet today since I'm back in the office, and I uncovered a few problems right away which make me think we are working from different source documents.

--Lon

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Friday, February 24, 2023 7:46 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

Thanks for sending. I will look into this on Monday when I am back in the office. When do you expect you'll be able to send your other questions to me?

I don't think there is any specific requirement to docket something that says you will need more than 30 days to respond. That sort of language appears in cover letters for data requests when we are doing discovery for AFCs and SPPEs, but we didn't include it in the cover letter sent out on Feb. 10. The response estimates we asked for (covering DA worksheets and Data Requests) can be given to me verbally via our catch up weekly meetings—that's more for my own workload planning purposes, and for me to be able to give relevant technical staff a heads up that something responsive is heading their way.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Wednesday, February 22, 2023 1:18 PM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sounds good. We're coming up with a list of questions. We're also working on the "it's gonna take more than 30 days" response letter—is there anything specific you'd like to see in that? Do you have a template?

Attached is a spreadsheet with all the data requests that have blanks in column G ("Info needed to make AFC conform with regs").

Thanks!
 Caitlin

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, February 22, 2023 11:39 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

We can set up calls, but it would be good to email me the specific questions in advance so we can figure out how long the calls need to be and who might need to be there on our end.

As for the "what information is needed" issue, let me know the technical topics where that issue has come up-
-I can have those folks amend the worksheets.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Wednesday, February 22, 2023 10:49 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

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No problem. Yes, a few questions: can we set up series of calls with your technical specialists to walk through some questions we have on the data requests? And as I am organizing the data requests I noticed that quite a few don't have anything written in the "what information is needed to ensure adequacy?" boxes in the matrix—how should we proceed with these?

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, February 22, 2023 10:47 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

need to cancel again. if you have specific questions regarding info requests, please email them to me. I will see the email even though you will get an out of office message.

From: Barns, Caitlin
Sent: Wednesday, January 18, 2023 1:22 PM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>; Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: Fountain Wind check-in call
When: Wednesday, February 22, 2023 12:30 PM-1:00 PM.
Where: Microsoft Teams Meeting

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon, thought it would be good to set up a weekly call to check in on the Fountain Wind application. Let me know if there's anyone else you'd like me to add to the call or if you'd prefer another time. Thanks!

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 267 737 602 838

Passcode: 3L2e69

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 587-414-2460,58373190#](#) Canada, Edmonton

[\(833\) 266-3861,58373190#](#) Canada (Toll-free)

Phone Conference ID: 583 731 90#

[Find a local number](#) | [Reset PIN](#)



[Learn More](#) | [Meeting options](#)

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Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

Message

From: Payne, Leonidas@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: 3/1/2023 5:22:05 PM
To: Barns, Caitlin [Caitlin.Barns@stantec.com]
Subject: RE: Fountain Wind check-in call
Attachments: Soils and Water Resources DA worksheets with clarifications.pdf

One of the things we noticed when we did a post-mortem on the data adequacy review effort was that not all the data adequacy worksheets specified exactly what information was needed. It seemed most notable for the Soils and Water Resources worksheets, so I had Karim add some material (highlighted in blue) which should clarify what we need. See attached. [BTW--you can ignore the yellow highlighting—Karim edited a pre-formatted version of the worksheet and that's a holdover from a prior version.]

Let me know if you notice a similar issue on any of the other DA worksheets, and I'll have technical staff do something similar, as necessary.

The other recommendation I would make, in case you notice this issue popping up on any other worksheets, is to check the data requests to see if we specify what is needed as part of those requests. We had originally contemplated doing DA worksheets and Data Requests as entirely separate exercises, but the direction from legal and management changed at the 11th hour, resulting in some people including what amounts to data requests in the last column of the worksheet, while others might have split the material up—simply identifying a deficiency in the DA worksheet, and then going into further detail in the data requests.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Monday, February 27, 2023 1:48 PM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Yes, you're right, please ignore the spreadsheet I sent you. I realized that there's a mismatch between columns. What's more important are the questions I'll be sending you mid- to late this week after ConnectGen and I have had a chance to go line by line through each data request, and I'll make sure those are correct.

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Monday, February 27, 2023 1:35 PM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

Give me a call before 2:30pm today if you can. I started digging into your spreadsheet today since I'm back in the office, and I uncovered a few problems right away which make me think we are working from different source documents.

--Lon

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Friday, February 24, 2023 7:46 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

Thanks for sending. I will look into this on Monday when I am back in the office. When do you expect you'll be able to send your other questions to me?

I don't think there is any specific requirement to docket something that says you will need more than 30 days to respond. That sort of language appears in cover letters for data requests when we are doing discovery for AFCs and SPPEs, but we didn't include it in the cover letter sent out on Feb. 10. The response estimates we asked for (covering DA worksheets and Data Requests) can be given to me verbally via our catch up weekly meetings—that's more for my own workload planning purposes, and for me to be able to give relevant technical staff a heads up that something responsive is heading their way.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Wednesday, February 22, 2023 1:18 PM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

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Sounds good. We're coming up with a list of questions. We're also working on the "it's gonna take more than 30 days" response letter—is there anything specific you'd like to see in that? Do you have a template?

Attached is a spreadsheet with all the data requests that have blanks in column G ("Info needed to make AFC conform with regs").

Thanks!
 Caitlin

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, February 22, 2023 11:39 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

We can set up calls, but it would be good to email me the specific questions in advance so we can figure out how long the calls need to be and who might need to be there on our end.

As for the "what information is needed" issue, let me know the technical topics where that issue has come up—I can have those folks amend the worksheets.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Wednesday, February 22, 2023 10:49 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

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No problem. Yes, a few questions: can we set up series of calls with your technical specialists to walk through some questions we have on the data requests? And as I am organizing the data requests I noticed that quite a few don't have anything written in the "what information is needed to ensure adequacy?" boxes in the matrix—how should we proceed with these?

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, February 22, 2023 10:47 AM

To: Barns, Caitlin <Caitlin.Barns@stantec.com>

Subject: Re: Fountain Wind check-in call

need to cancel again. if you have specific questions regarding info requests, please email them to me. I will see the email even though you will get an out of office message.

From: Barns, Caitlin

Sent: Wednesday, January 18, 2023 1:22 PM

To: Barns, Caitlin <Caitlin.Barns@stantec.com>; Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>

Subject: Fountain Wind check-in call

When: Wednesday, February 22, 2023 12:30 PM-1:00 PM.

Where: Microsoft Teams Meeting

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Hi Lon, thought it would be good to set up a weekly call to check in on the Fountain Wind application. Let me know if there's anyone else you'd like me to add to the call or if you'd prefer another time. Thanks!

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 267 737 602 838

Passcode: 3L2e69

[Download Teams](#) | [Join on the web](#)

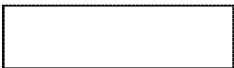
Or call in (audio only)

+1 587-414-2460,,58373190# Canada, Edmonton

(833) 266-3861,,58373190# Canada (Toll-free)

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Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

Message

From: Worrall, Lisa@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E4BBC7048B38485084BDB03FB494B25B-WORRALL, LI]
Sent: 2/27/2023 4:12:11 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: Roark, Gabriel@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed87ff1e22cd49f3aaff644c82538d46-Roark, Gabr]
Subject: RE: Opt-in Certification for Fountain Wind (23-OPT-01)

I sent the email out using bcc to all the names on the list that NAHCP gave Gabriel. The second batch of emails was sent to the two recipients that were undeliverable.

I will pdf them and save in the tribal courtesy notice file and let you know once I do that.

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Monday, February 27, 2023 5:57 AM
To: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>
Cc: Roark, Gabriel@Energy <gabriel.roark@energy.ca.gov>
Subject: Re: Opt-in Certification for Fountain Wind (23-OPT-01)

This email had no "to" line so I am assuming I was bcc'd. Can you do a print to pdf of the ones you sent out so I can capture them for my records? I want a record that it went to a specific email address associated with a tribal contact. I got two emails—does that imply we only sent to two people?

Once the emails are pdf'd you can put them in that folder where I asked that the base document with routing log be placed.

Thanks so much for getting this done!

--Lon

From: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>
Sent: Friday, February 24, 2023 3:33 PM
Subject: Opt-in Certification for Fountain Wind (23-OPT-01)

Hello,

In a series of document filings from January 3 through January 11, 2023, Fountain Wind LLC (applicant) filed an application with the California Energy Commission (CEC) seeking certification from the CEC through the Opt-in Certification process for the Fountain Wind Project (Docket No. 23-OPT-01). The Fountain Wind Project is a wind energy generation facility proposed on approximately 4,500 acres of private, leased land in unincorporated Shasta County, California. The property is located approximately 1 mile west of the existing Hatchet Ridge Wind Project, 6 miles west of Burney, 35 miles northeast of Redding, immediately south of California State Route 299, and near the private recreational facility of Moose Camp and other private inholdings.

Project Description

The Fountain Wind project would have a total nameplate generating capacity of up to 205 megawatts (MW). The applicant proposes to construct up to 48 turbines, each with a generating capacity of up to 7.2 MW. Associated infrastructure and facilities would include a 34.5-kilovolt overhead and

underground electrical collector system to connect turbines together and to an on-site collector substation; overhead and underground fiber-optic communication lines; an on-site switching station to connect the project to the existing regional grid operated by the Pacific Gas and Electric Company; a temporary construction and equipment laydown area; nine temporary laydown areas distributed throughout the project site to temporarily store and stage materials and equipment; an operation and maintenance facility with employee parking; up to four permanent meteorological evaluation towers (METs); temporary, episodic deployment of mobile Sonic Detection and Ranging or Light Detection and Ranging systems within identified disturbance areas (e.g., at MET locations); two storage sheds; and three temporary batch plants. Up to 19 miles of new access roads would be constructed within the project site, and up to 19 miles of existing roads would be improved. No new transmission lines are proposed.

CEC Jurisdiction and Opt-In Process

On June 30, 2022, Governor Gavin Newsom signed Assembly Bill (AB) 205, which authorized the CEC to establish a new certification program for eligible non-fossil-fueled power plants and related facilities to optionally seek certification ("Opt-in" Certification) from the CEC. Requirements for the Opt-in Certification program are in Chapter 6.2, Division 15, of the Public Resources Code, sections 25545–25545.13. Regulations to implement the program can be found in California Code of Regulations, Title 20, sections 1875–1882. The Opt-in Certification program is in effect through June 30, 2029.

Under this new Opt-in Certification process, the types of facilities that can be certified by the CEC now include solar photovoltaic and terrestrial wind energy powerplants of 50 MW or more, energy storage facilities of 200 megawatt-hours (MWh) or more, the electric transmission lines from these facilities to the first point of interconnection with the existing transmission grid, and facilities that manufacture or assemble clean energy or storage technologies or their components with a capital investment of at least \$250 million. In addition, thermal power plants of 50 MW or more that do not use fossil or nuclear fuels may choose the Opt-in Certification process rather than the CEC's Application for Certification process.

The CEC is the lead agency under the California Environmental Quality Act (CEQA) and is required to prepare an environmental impact report for any facility that elects to opt-in to the CEC's jurisdiction. With exceptions, the issuance of a certificate by the CEC for an eligible facility is in lieu of any permit, certificate, or similar document required by any state, local, or regional agency, or federal agency to the extent permitted by federal law, and supersedes any applicable statute, ordinance, or regulation of any state, local, or regional agency, or federal agency to the extent permitted by federal law. The CEC's authority under the Opt-in Certification program does not supersede the authorities of the California State Lands Commission, the California Coastal Commission, or the San Francisco Bay Conservation and Development Commission, if applicable, the State Water Resources Control Board or applicable regional water quality control board, or, in the case of manufacturing facilities, the applicable local air quality management district or the Department of Toxic Substances Control.

The CEC is required to prepare an environmental impact report (EIR) and make its decision on the application within 270 days of receiving a *complete* application. The Fountain Wind Opt-in application has not been deemed complete at this time. No later than five days of deeming the application complete, the CEC staff will initiate consultation with California Native American tribes that request consultation with the CEC. Consultation between California Native American tribes and the CEC will proceed according to the requirements of Public Resources Code, sections 21080.3.1, 21080.3.2, 21082.3, and 25545.7.4 (CEQA and the Warren-Alquist Act). The CEC will also conduct public meetings in the project area, including an informational and public scoping meeting during the

development of the EIR, and a public workshop during the 60-day comment period on the Draft EIR, which will be included as part of the CEC's Staff Assessment of the application. After the conclusion of the public comment period, the CEC staff will publish an updated Staff Assessment (which will include a Final EIR), and the CEC's Executive Director's recommendation on whether the CEC should certify the EIR and issue a certificate for construction and operation of the proposed project. The updated Staff Assessment and Executive Director's recommendation will be published at least 30 days before the CEC's consideration at a public meeting.

The other agencies that retain their permitting authorities must take final action on any additional permits within 90 days of the CEC issuing a certificate.

Participation

The CEC welcomes public participation in the Opt-in review process. A copy of the Fountain Wind Opt-in application as well as other project information, can be found on the CEC website at <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>. To stay informed about this project and receive notice of upcoming meetings and workshops, sign up to the project subscription, which can be accessed on the same project webpage. Once enrolled, automatic email notifications are sent when documents and notices are posted to the project webpage.

CEC staff welcomes your comments and questions. Please do not hesitate to contact Assistant Tribal Liaison, Gabriel Roark, at (916) 237-2544 or by email at gabriel.roark@energy.ca.gov.

Kind regards,

Lisa Worrall
Senior Environmental Planner
California Energy Commission
Siting, Transmission and Environmental Protection Division
715 P Street, MS-40, Sacramento, CA 95814
Direct: (916) 661-8367
Email: lisa.worrall@energy.ca.gov



Message

From: Gannett Legals Public Notices 6 [ganlegpubnotices6@gannett.com]
Sent: 2/28/2023 3:09:34 PM
To: Worrall, Lisa@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e4bbc7048b38485084bdb03fb494b25b-Worrall, Li]; Bubbico, Joseph@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f6169627bc00479d8aec9dd4c344f112-Bubbico, Jo]; Pino, Teresa@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1504862a05ad49f68cdc427df5010b83-Pino, Teres]
CC: Emigh, Kyle@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ae4d86b0cb6a4f318c4e9e6fb5e82008-Emigh, Kyle]; Espino, Jenny [Jenny.Espino@redding.com]; Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Subject: RE: 0005610159 RE: Need notice published in Record SeEspino, Jenny <Jenny.Espino@redding.com>archlight (Redding, CA)
Attachments: 0005610159 - Feb. 28, 2023 e -tearsheet.PDF
Importance: High

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning Lisa,

Attached is the e-tearsheet for the Feb. 28th publication you requested.

Thanks,
Amirtha Sargunam
 Public Notice Representative



Office: 844-590-5995

From: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>
Sent: Monday, February 27, 2023 10:58 AM
To: Gannett Legals Public Notices 6 <ganlegpubnotices6@gannett.com>; Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>; Pino, Teresa@Energy <Teresa.Pino@energy.ca.gov>
Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Espino, Jenny <Jenny.Espino@redding.com>; Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: 0005610159 RE: Need notice published in Record SeEspino, Jenny <Jenny.Espino@redding.com>archlight (Redding, CA)

Can you email me the e tear sheet once it is published. Thanks.

From: Worrall, Lisa@Energy
Sent: Friday, February 24, 2023 3:35 PM
To: Gannett Legals Public Notices 6 <ganlegpubnotices6@gannett.com>; Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>; Pino, Teresa@Energy <Teresa.Pino@energy.ca.gov>
Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Espino, Jenny <Jenny.Espino@redding.com>
Subject: RE: 0005610159 RE: Need notice published in Record SeEspino, Jenny <Jenny.Espino@redding.com>archlight (Redding, CA)

This looks good. Please go ahead and publish. Teresa, can you pay the bill? Thanks.

Lisa

From: Gannett Legals Public Notices 6 <ganlegpubnotices6@gannett.com>

Sent: Friday, February 24, 2023 2:48 PM

To: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>; Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>

Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Espino, Jenny <Jenny.Espino@redding.com>

Subject: RE: 0005610159 RE: Need notice published in Record SeEspino, Jenny <Jenny.Espino@redding.com>archlight (Redding, CA)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Lisa,

There is no error, the line is cut off due to the maximum page size & page break in the order confirmation page size in PDF. The pagination will set the ad to fit the layout in the newspaper. All lines are legible in the order system. Attached is another Pdf file with a bigger page size without the header.

Below is also the screenshot of the ad from the order system:

**NOTICE OF RECEIPT OF AN APPLICATION FOR
OPT-IN CERTIFICATION FOR
FOUNTAIN WIND**

In a series of filings from January 3 through January 11, 2023, Fountain Wind LLC (applicant) filed an application with the California Energy Commission (CEC) seeking certification from the CEC through the Opt-in Certification process for the Fountain Wind Project (Docket No. 23-OPT-91). The Fountain Wind Project is a wind energy generation facility proposed on approximately 4,500 acres of private, leased land in unincorporated Shasta County, California. The property is located approximately 1 mile west of the existing Hatcher Ridge Wind Project, 6 miles west of Burney, 35 miles northeast of Redding, immediately south of California State Route 299, and near the private recreational facility of Moose Camp and other private inholdings.

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CEC Jurisdiction and Opt-In Process

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non-fossil-fueled power plants and related facilities to optionally seek certification ("Opt-in" Certification) from the CEC. Requirements for the Opt-in Certification program are available in Chapter 6.2, Division 15, of the Public Resources Code, sections 25545 through 25545.13. Regulations to implement the program can be found in California Code of Regulations, Title 20, sections 1875-1882. The Opt-in Certification program is in effect through June 30, 2029.

Under this new Opt-in Certification process, the types of facilities that can be certified by the CEC now include solar photovoltaic and terrestrial wind energy powerplants of 50 MW or more, energy storage facilities of 200 megawatt-hours (MWh) or more, the electric transmission lines from these facilities to the first point of interconnection with the existing transmission grid, and facilities that manufacture or assemble clean energy or storage technologies or their components with a capital investment of at least \$250 million. In addition, thermal powerplants of 50 MW or more that do not use fossil or nuclear fuels may choose the Opt-in Certification process rather than the CEC's Application for Certification (AFC) process.

The CEC is the "lead agency" under the California Environmental Quality Act and is required to prepare an environmental impact report for any facility that elects to opt-in to the CEC's jurisdiction. With exceptions, the issuance of a certificate by the CEC for an eligible facility is in lieu of any permit, certificate, or similar document required by any state, local, or regional agency, or federal agency to the extent permitted by federal law, and supersedes any applicable statute, ordinance, or regulation of any state, local, or regional agency, or federal agency to the extent permitted by federal law. The CEC's authority under the Opt-in Certification program does not supersede the authorities of the California State Lands Commission, the California Coastal Commission, or the San Francisco Bay Conservation and Development Commission, if applicable, the State Water Resources Control Board or applicable regional water quality control board, or, in the case of manufacturing facilities, the applicable local air quality management district or the Department of Toxic Substances Control.

The CEC is required to prepare an environmental impact report (EIR) and make its decision on the application within 270 days of receiving a complete application. The

Fountain Wind Opt-in application has not been deemed complete at this time. Once the application is deemed complete, the CEC staff will initiate consultation with all responsible and trustee agencies on the scope and content of the EIR, and will begin consultation with California Native American tribes that request consultation with the CEC. The CEC will conduct public meetings in the project area, including an informational and public scoping meeting during the development of the EIR, and a public workshop during the 60-day comment period on the Draft EIR, which will be included as part of the CEC's Staff Assessment of the application. After the conclusion of the public comment period, the CEC staff will publish an updated Staff Assessment (which will include a Final EIR), and the CEC's Executive Director's recommendation on whether the CEC should certify the EIR and issue a certificate (permit) for construction and operation of the proposed project. The updated Staff Assessment and Executive Director's recommendation will be published at least 30 days before the CEC's consideration at a public meeting.

The other agencies that retain their permitting authorities must take final action on any additional permits within 90 days of the CEC issuing a certificate.

Public Participation

The CEC welcomes public participation in the Opt-in review process. A copy of the Fountain Wind Opt-in application as well as other project information, can be found on the CEC website at <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>. To stay informed about this project and receive notice of upcoming meetings and workshops, sign up to the project subscription, which can be accessed on the same project webpage. Once enrolled, automatic email notifications are sent when documents and notices are posted to the project webpage.

For technical questions about the project please contact Leonidas Payne, project manager, by email at Leonidas.payne@energy.ca.gov.

The CEC's Office of the Public Advisor, Energy Equity, and Tribal Affairs is available to provide information on, and assistance with, public participation in CEC proceedings. The Public Advisor's Office can be reached by phone at (916) 957-7910 and by email at publicadvisor@energy.ca.gov.

Media questions should be directed to the CEC's Media Office by phone at (916) 654-4989 or by email at mediaoffice@energy.ca.gov.

February 28, 2023

#0005610159

Thanks,

Amirtha Sargunam

Public Notice Representative



Office: 844-590-5995

From: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>

Sent: Friday, February 24, 2023 4:29 PM

To: Gannett Legals Public Notices 6 <ganlegpubnotices6@gannett.com>; Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>

Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Espino, Jenny <Jenny.Espino@redding.com>

Subject: RE: 0005610159 RE: Need notice published in Record SeEspino, Jenny <Jenny.Espino@redding.com>archlight (Redding, CA)

I saw that the bottom of the first page of the pdf, the text seems cut off. Is this just because it is a long notice and doesn't pdf well or is there some error?

Please confirm.

Thanks,

Lisa

From: Gannett Legals Public Notices 6 <ganlegpubnotices6@gannett.com>
Sent: Friday, February 24, 2023 2:12 PM
To: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>; Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>
Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Espino, Jenny <Jenny.Espino@redding.com>
Subject: RE: 0005610159 RE: Need notice published in Record SeEspino, Jenny <Jenny.Espino@redding.com>archlight (Redding, CA)
Importance: High

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Lisa,

The cost to publish your notice once in the Record Searchlight on Tuesday, February 28th, 2023 is \$558.60 including the affidavit.

Attached is the ad proof for your review. **Kindly check if the ad proof has been typed accurately before making the payment. This is your opportunity to ensure the notice goes to print without any error; otherwise it will print as it is.**

We do **REQUIRE PREPAYMENT** before the notice will publish so please call us at **844-590-5995** with a credit or debit card. We must have payment prior to 11am PST on Monday, February 27th, 2023 or the notice will not begin publication. Please use ad reference number # **5610159** when you call. **Our office hours are 8am to 5pm CST : Monday to Friday.**

The affidavit will be mailed out to your address: 715 P STREET, SACRAMENTO CA 95814 after the publication date. You will be able to receive it within 7-10 business day after print date. If your mailing address is different , please let us know ASAP.

Any changes, please reply prior deadline and before making the payment.

Please note that call volumes have been high and there may be waits/holds when calling in payment. A Rep. will answer your call as soon as they become available to assist you. Please call much ahead of time so that you don't miss the deadline.

Thanks,
Amirtha Sargunam
 Public Notice Representative



Office: 844-590-5995

From: Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>

Sent: Friday, February 24, 2023 2:17 PM

To: Espino, Jenny <Jenny.Espino@redding.com>; Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>; RRS-RSLegals <rslegals@redding.com>

Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>

Subject: 0005610159 RE: Need notice published in Record Searchlight (Redding, CA)

Hi all,

Here is the final copy of the newspaper notice. We need it to run for one day. When is the soonest you can publish this?

Please provide a proof for review and approval and a cost and billing details so we can arrange payment. Please let us know of the publication cut off date so that we can make sure we have made a payment in time for the earliest publication.

Thanks so much,

Lisa

Lisa Worrall
Senior Environmental Planner
California Energy Commission
Siting, Transmission and Environmental Protection Division
715 P Street, MS-40, Sacramento, CA 95814
Direct: (916) 661-8367
Email: lisa.worrall@energy.ca.gov



From: Espino, Jenny <Jenny.Espino@redding.com>

Sent: Wednesday, February 22, 2023 9:48 PM

To: Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>; RRS-RSLegals <rslegals@redding.com>

Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>

Subject: RE: Need notice published in Record Searchlight (Redding, CA)

<p>CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.</p>

Hello, Legal Notices team. Please see the email below from the California Energy Commission. They agency needs to publish a notice in the Record Searchlight. Thanks.

Mr. Bubbico, please reach out if you have any other questions I can help answer.

Jenny Espino
News editor



Office: 530.225.8220
jeespino@gannett.com

www.redding.com | www.recordnet.com | www.mtshastanews.com | www.siskiyoudaily.com

From: Bubbico, Joseph@Energy <Joseph.Bubbico@energy.ca.gov>
Sent: Wednesday, February 22, 2023 3:05 PM
To: Espino, Jenny <Jenny.Espino@redding.com>
Cc: Emigh, Kyle@Energy <kyle.emigh@energy.ca.gov>; Worrall, Lisa@Energy <Lisa.Worrall@energy.ca.gov>
Subject: Need notice published in Record Searchlight (Redding, CA)

Hello,

The California Energy Commission would like to publish the attached notice(Draft) in your Record Searchlight publication for one day late this week or early next week. Please provide an estimate and we will get you the payment and final copy for publishing.

Thank you,

Joe Bubbico

Siting, Transmission and Environmental Protection Division

California Energy Commission

Joseph.Bubbico@energy.ca.gov

(916)591-0526

Public Notices

T.S. No. 22000437-1 CA APN: 117-410-023-000 **NOTICE OF TRUSTEE'S SALE YOU ARE IN DEFAULT UNDER A DEED OF TRUST DATED 02/06/2007. UNLESS YOU TAKE ACTION TO PROTECT YOUR PROPERTY, IT MAY BE SOLD AT A PUBLIC SALE. IF YOU NEED AN EXPLANATION OF THE PROCEEDING AGAINST YOU, YOU SHOULD CONTACT A LAWYER.** A public auction sale to the highest bidder for cash, cashier's check drawn on a state or national bank, check drawn by a state or federal credit union, or a check drawn by a state or federal savings and loan association, or savings association, or savings bank specified in Section 5102 of the Financial Code and authorized to do business in this state will be held by the duly appointed trustee as shown below, of all right, title, and interest conveyed to and now held by the trustee in the herein-after described property under and pursuant to a Deed of Trust described below. The sale will be made, but without covenant or warranty, expressed or implied, regarding title, possession, or encumbrances, to pay the remaining principal sum of the note(s) secured by the Deed of Trust, with interest and late charges thereon, as provided in the note(s), advances, under the terms of the Deed of Trust, interest thereon, fees, charges and expenses of the Trustee for the total amount (at the time of the initial publication of the Notice of Sale) reasonably estimated to be set forth below. The amount may be greater on the day of sale. Trustor: **WARREN H. ARNOLD AND SHERI L. ARNOLD, HUSBAND, AND WIFE** Duly Appointed Trustee: **ZBS Law, LLP** Deed of Trust Recorded on 02/13/2007, as Instrument No. **2007-0006984** of Official Records of Shasta County, California. Date of Sale: **03/14/2023 at 11:00 AM** Place of Sale: **At the main entrance to the County Courthouse 1500 Court Street Redding CA** Estimated amount of unpaid balance and other charges: **\$239,455.22** Note: Because the Beneficiary reserves the right to bid less than the total debt owed, it is possible that at the time of the sale the opening bid may be less than the total debt owed. Street Address or other common designation of real property: **624 REDDINGTON DRIVE REDDING, CA 96003-5208** Described as follows: As more fully described on said Deed of Trust. A.P.N #: **117-410-023-000** The undersigned Trustee disclaims any liability for any incorrectness of the street address or other common designation, if any, shown above. If no street address or other common designation is shown, directions to the location of the property may be obtained by sending a written request to the beneficiary within 10 days of the date of first publication of this Notice of Sale. **NOTICE TO POTENTIAL BIDDERS:** If you are considering bidding on this property lien, you should understand that there are risks involved in bidding at a trustee auction. You will be bidding on a lien, not on the property itself. Placing the highest bid at a trustee auction does not automatically entitle you to free and clear ownership of the property. You should also be aware that the lien being auctioned off may be a junior lien. If you are the highest bidder at the auction, you are or may be responsible for paying off all liens senior to the lien being auctioned off, before you can receive clear title to the property. You are encouraged to investigate the existence, priority, and size of outstanding liens that may exist on this property by contacting the county recorder's office or a title insurance company, either of which may charge you a fee for this information. If you consult either of these resources, you should be aware that the same lender may hold more than one mortgage or deed of trust on the property. **NOTICE TO PROPERTY OWNER:** The sale date shown on this notice of sale may be postponed one or more times by the mortgagee, beneficiary, trustee, or a court, pursuant to Section 2924g of the California Civil Code. The law requires that information about trustee sale postponements be made available to you and to the public, as a courtesy to those not present at the sale. If you wish to learn whether your sale date has been postponed, and, if applicable, the rescheduled time and date for the sale of this property, you may call **866-266-7512** or visit this Internet Web site **www.elitepostandpub.com** using the file number assigned to this case **22000437-1 CA**. Information about postponements that are very short in duration or that occur close in time to the scheduled sale may not immediately be reflected in the telephone information or on the Internet Web site. The best way to verify postponement information is to attend the scheduled sale. **NOTICE TO TENANT:** You may have a right to purchase this property after the trustee auction pursuant to Section 2924m of the California Civil Code. If you are an "eligible tenant buyer," you can purchase the property if you match the last and highest bid placed at the trustee auction. If you are an "eligible bidder," you may be able to purchase the property if you exceed the last and highest bid placed at the trustee auction. There are three steps to exercising this right of purchase. First, 48 hours after the date of the trustee sale, you can call **866-266-7512** or visit this Internet Web site **www.elite**

Public Notices

postandpub.com using the file number assigned to this case **22000437-1 CA** to find the date on which the trustee's sale was held, the amount of the last and highest bid, and the address of the trustee. Second, you must send a written notice of intent to place a bid so that the trustee receives it no more than 15 days after the trustee's sale. Third, you must submit a bid so that the trustee receives it no more than 45 days after the trustee's sale. If you think you may qualify as an "eligible tenant buyer" or "eligible bidder," you should consider contacting an attorney or appropriate real estate professional immediately for advice regarding this potential right to purchase. **Dated: 02/13/2023 ZBS Law, LLP, as Trustee 30 Corporate Park, Suite 450, Irvine, CA 92606 For Non-Automated Sale Information, call: (714) 848-7920 For Sale Information: 866-266-7512 or www.elitepostandpub.com Ryan Bradford, Trustee Sale Officer** This office is enforcing a security interest of your creditor. To the extent that your obligation has been discharged by a bankruptcy court or is subject to an automatic stay of a bankruptcy, this notice is for informational purposes only and does not constitute a demand for payment or any attempt to collect such obligation. EPP 36517 Pub Dates 02/21, 02/28, 03/07/2023 Feb. 21, 28, Mar. 7, 2023 5598193

Fictitious Business

FICTITIOUS BUSINESS NAME STATEMENT F20230117
This statement was filed in the office of CATHY DARLING ALLEN, SHASTA County Clerk, on 02/02/2023
By: **Jon Amacker**, Deputy Fictitious Business Name(s)
BLACKBERRY 110 WILSHIRE DRIVE REDDING, CA 96002 Registrant Address(es)
CARLI GALE RAY 110 WILSHIRE DRIVE REDDING, CA 96002 Began Transacting Business: 01/28/2023
Statement Expires On: 02/02/2028
Business Is Conducted By: An Individual
NOTICE - IN ACCORDANCE WITH SUBDIVISION (a) OF SECTION 17920, A FICTITIOUS NAME STATEMENT GENERALLY EXPIRES AT THE END OF FIVE YEARS FROM THE DATE ON WHICH IT WAS FILED IN THE OFFICE OF THE COUNTY CLERK, EXCEPT, AS PROVIDED IN SUBDIVISION (b) OF SECTION 17920, WHERE IT EXPIRES 40 DAYS AFTER ANY CHANGE IN THE FACTS SET FORTH IN THE STATEMENT PURSUANT TO SECTION 17913 OTHER THAN A CHANGE IN THE RESIDENCE ADDRESS OF A REGISTRANT OWNER. A NEW FICTITIOUS BUSINESS NAME STATEMENT MUST BE FILED BEFORE THE EXPIRATION. THE FILING OF THIS STATEMENT DOES NOT OF ITSELF AUTHORIZE THE USE IN THIS STATE OF A FICTITIOUS BUSINESS NAME IN VIOLATION OF THE RIGHTS OF ANOTHER UNDER FEDERAL, STATE, OR COMMON LAW (SEE SECTION 14411 ET SEQ., BUSINESS AND PROFESSIONS CODE).
Print Name: CARLI RAY /s/ Carli Ray
February 7, 14, 21, 28, 2023 5584026

Public Notices

SOLICITATION FOR GRANT WRITING AND TECHINCAL ASSISTANCE SERVICES

Request for Proposals

Pit River Tribal Housing Board (PRTHB) is now soliciting written proposals from qualified individuals and firms to provide Grant Writing and Technical Assistance Services. This request for Proposal (RFP) is issued to result in a contract to provide Grant Writing and Technical Assistance Services for 2023. This proposal includes an option for two (2) additional years.
All proposals submitted in response to the solicitation must conform to all the requirements and specification outlined in the RFP. The RFP is available from the noted address, and is available on our website www.prthhousing.com. Attention is called to the fact that Indian Preference in compliance with the requirements of 24 CFR 1000.52 applies to this procurement. The Pit River Tribal Housing Board reserves the right to reject any and all proposals.

PRTHB Contact Person
Allen Lowry, Housing Coordinator
Celena Bennett, Bookkeeper
(530) 335-4809

SUBMITTALS
Via Facsimile at (530) 335-4849
E-Mail: prthbookkeeper@frontiertnet.net

Submittal Address:
20300 Fir Street
Burney CA 96013

PROPOSAL SUBMITTAL
DEADLINE April 7, 2023
02/21, 02/28, 03/07, 03/14/2023 #5601624

Public Notices

T.S. No. 22002764-1 CA APN: 205-350-009-000 **NOTICE OF TRUSTEE'S SALE YOU ARE IN DEFAULT UNDER A DEED OF TRUST DATED 06/13/2016. UNLESS YOU TAKE ACTION TO PROTECT YOUR PROPERTY, IT MAY BE SOLD AT A PUBLIC SALE. IF YOU NEED AN EXPLANATION OF THE NATURE OF THE PROCEEDING AGAINST YOU, YOU SHOULD CONTACT A LAWYER.** A public auction sale to the highest bidder for cash, cashier's check drawn on a state or national bank, check drawn by a state or federal credit union, or a check drawn by a state or federal savings and loan association, or savings association, or savings bank specified in Section 5102 of the Financial Code and authorized to do business in this state will be held by the duly appointed trustee as shown below, of all right, title, and interest conveyed to and now held by the trustee in the hereinafter described property under and pursuant to a Deed of Trust described below. The sale will be made, but without covenant or warranty, expressed or implied, regarding title, possession, or encumbrances, to pay the remaining principal sum of the note(s) secured by the Deed of Trust, with interest and late charges thereon, as provided in the note(s), advances, under the terms of the Deed of Trust, interest thereon, fees, charges and expenses of the Trustee for the total amount (at the time of the initial publication of the Notice of Sale) reasonably estimated to be set forth below. The amount may be greater on the day of sale. Trustor: **PATRICK D. ARMITAGE AND SHARON J. ARMITAGE, HUSBAND, AND WIFE** Duly Appointed Trustee: **ZBS Law, LLP** Deed of Trust Recorded on 06/15/2016, as Instrument No. **2016-0017138** of Official Records of Shasta County, California. Date of Sale: **03/20/2023 at 11:00 AM** Place of Sale: **At the East entrance to the County Courthouse, Shasta County Courthouse 1500 Court Street, Redding, CA 96001** Estimated amount of unpaid balance and other charges: **\$102,467.91** Note: Because the Beneficiary reserves the right to bid less than the total debt owed, it is possible that at the time of the sale the opening bid may be less than the total debt owed. Street Address or other common designation of real property: **16004 CLOVERDALE ROAD ANDERSON, CA 96007-8256** Described as follows: As more fully described on said Deed of Trust. A.P.N #: **205-350-009-000** The undersigned Trustee disclaims any liability for any incorrectness of the street address or other common designation, if any, shown above. If no street address or other common designation is shown, directions to the location of the property may be obtained by sending a written request to the beneficiary within 10 days of the date of first publication of this Notice of Sale. **NOTICE TO POTENTIAL BIDDERS:** If you are considering bidding on this property lien, you should understand that there are risks involved in bidding at a trustee auction. You will be bidding on a lien, not on the property itself. Placing the highest bid at a trustee auction does not automatically entitle you to free and clear ownership of the property. You should also be aware that the lien being auctioned off may be a junior lien. If you are the highest bidder at the auction, you are or may be responsible for paying off all liens senior to the lien being auctioned off, before you can receive clear title to the property. You are encouraged to investigate the existence, priority, and size of outstanding liens that may exist on this property by contacting the county recorder's office or a title insurance company, either of which may charge you a fee for this information. If you consult either of these resources, you should be aware that the same lender may hold more than one mortgage or deed of trust on the property. **NOTICE TO PROPERTY OWNER:** The sale date shown on this notice of sale may be postponed one or more times by the mortgagee, beneficiary, trustee, or a court, pursuant to Section 2924g of the California Civil Code. The law requires that information about trustee sale postponements be made available to you and to the public, as a courtesy to those not present at the sale. If you wish to learn whether your sale date has been postponed, and, if applicable, the rescheduled time and date for the sale of this property, you may call **(855) 976-3916** or visit this Internet Web site **www.auction.com** using the file number assigned to this case **22002764-1 CA**. Information about postponements that are very short in duration or that occur close in time to the scheduled sale may not immediately be reflected in the telephone information or on the Internet Web site. The best way to verify postponement information is to attend the scheduled sale. **NOTICE TO TENANT:** You may have a right to purchase this property after the trustee auction pursuant to Section 2924m of the California Civil Code. If you are an "eligible tenant buyer," you can purchase the property if you match the last and highest bid placed at the trustee auction. If you are an "eligible bidder," you may be able to purchase the property if you exceed the last and highest bid placed at the trustee auction. There are three steps to exercising this right of purchase. First, 48 hours after the date of the trustee sale, you can call **(855) 976-3916** or visit this Internet Web site **https://tracker.auction.com/sb1079** using the file number assigned to this case **22002764-1 CA** to find the date on which the trustee's sale was held, the amount of the last and highest bid, and the address of the trustee. Second, you must send a written notice of intent to place a bid so that the trustee receives it no more than 15 days after the trustee's sale. Third, you must submit a bid so that the trustee receives it no more than 45 days after the trustee's sale. If you think you may qualify as an "eligible tenant buyer" or "eligible bidder," you should consider contacting an attorney or appropriate real estate professional immediately for advice regarding this potential right to purchase. **Dated: 02/13/2023 ZBS Law, LLP, as Trustee 30 Corporate Park, Suite 450, Irvine, CA 92606 For Non-Automated Sale Information, call: (714) 848-7920 For Sale Information: (855) 976-3916 or www.auction.com Ryan Bradford, Trustee Sale Officer** This office is enforcing a security interest of your creditor. To the extent that your obligation has been discharged by a bankruptcy court or is subject to an automatic stay of a bankruptcy, this notice is for informational purposes only and does not constitute a demand for payment or any attempt to collect such obligation. EPP 36513 Pub Dates 02/21, 02/28, 03/07/2023 5596776

Public Notices

Notice Of Petition To Administer Estate Of ROBERT DANIEL ZANINE CASE NUMBER 31902

To all heirs, beneficiaries, creditors, contingent creditors, and persons who may otherwise be interested in the will or estate, or both of **ROBERT DANIEL ZANINE**:

A Petition for Probate has been filed by **KATHERINE LOCKWOOD** in the Superior Court of California, County of SHASTA
The Petition for Probate requests that **KATHERINE LOCKWOOD** be appointed as personal representative to administer the estate of the decedent.

The petition requests authority to administer the estate under the Independent Administration of Estates Act. (This authority will allow the personal representative to take many actions without obtaining court approval. Before taking certain very important actions, however, the personal representative will be required to give notice to interested persons unless they have waived notice or consented to the proposed action.) The independent administration authority will be granted unless an interested person files an objection to the petition and shows good cause why the court should not grant the authority. **A hearing on the petition will be held in this court as follows:**
DATE: 03/27/2023 TIME: 2:30 P.M. Dept: 7 Superior Court of California, County of Shasta, 1500 Court Street Redding, CA 96001 Branch: Redding Main Courthouse

If you object to the granting of the petition, you should appear at the hearing and state your objections or file written objections with the court before the hearing. Your appearance may be in person or by your attorney.
If you are a creditor or a contingent creditor of the decedent, you must file your claim with the court and mail a copy to the personal representative appointed by the court within the later of either (1) four months from the date of first issuance of letters to a general personal representative, as defined in section 58(b) of the California Probate Code, or (2) 60 days from the date of mailing or personal delivery to you of a notice under section 9052 of the California Probate Code.
Other California statutes and legal authority may affect your rights as a creditor. You may want to consult with an attorney knowledgeable in California law. You may examine the file kept by the court. If you are a person interested in the estate, you may file with the court a Request for Special Notice (form DE-154) of the filing of an inventory and appraisal of estate assets or of any petition or account as provided in Probate Code section 1250. A Request for Special Notice form is available from the court clerk.

Attorney for Petitioner Paul C. Meidus
Reese Smalley Wiseman & Schweitzer, LLP
1265 Willis Street, Redding, CA 96001
(Telephone): 530-241-1611
February 28, March 3, 6, 2023 #5609440

Public Notices

Public Notices

NOTICE OF RECEIPT OF AN APPLICATION FOR OPT-IN CERTIFICATION FOR FOUNTAIN WIND

In a series of filings from January 3 through January 11, 2023, Fountain Wind LLC (applicant) filed an application with the California Energy Commission (CEC) seeking certification from the CEC through the Opt-in Certification process for the Fountain Wind Project (Docket No. 23-OPT-01). The Fountain Wind Project is a wind energy generation facility proposed on approximately 4,500 acres of private, leased land in unincorporated Shasta County, California. The property is located approximately 1 mile west of the existing Hatchet Ridge Wind Project, 6 miles west of Burney, 35 miles northeast of Redding, immediately south of California State Route 299, and near the private recreational facility of Moose Camp and other private inholdings.

Project Description
The Fountain Wind project would have a total nameplate generating capacity of up to 205 megawatts (MW). The applicant proposes to construct up to 48 turbines, each with a generating capacity of up to 7.2 MW. Associated infrastructure and facilities would include a 34.5-kilovolt overhead and underground electrical collector system to connect turbines together and to an on-site collector substation; overhead and underground fiber-optic communication lines; an on-site switching station to connect the project to the existing regional grid operated by the Pacific Gas and Electric Company; a temporary construction and equipment laydown area; nine temporary laydown areas distributed throughout the project site to temporarily store and stage materials and equipment; an operation and maintenance facility with employee parking; up to four permanent meteorological evaluation towers (METs); temporary, episodic deployment of mobile Sonic Detection and Ranging (SoDAR) or Light Detection and Ranging (LiDAR) systems within identified disturbance areas (e.g., at MET locations); two storage sheds; and three temporary batch plants. Up to 19 miles of new access roads would be constructed within the project site, and up to 19 miles of existing roads would be improved. No new transmission lines are proposed.

CEC Jurisdiction and Opt-In Process
On June 30, 2022, Governor Gavin Newsom signed Assembly Bill (AB) 205, which authorized the CEC to establish a new certification program for eligible non-fossil-fueled power plants and related facilities to optionally seek certification ("Opt-in" Certification) from the CEC. Requirements for the Opt-in Certification program are available in Chapter 6.2, Division 15, of the Public Resources Code, sections 25545 through 25545.13. Regulations to implement the program can be found in California Code of Regulations, Title 20, sections 1875-1882. The Opt-in Certification program is in effect through June 30, 2029.

Under this new Opt-in Certification process, the types of facilities that can be certified by the CEC now include solar photovoltaic and terrestrial wind energy powerplants of 50 MW or more, energy storage facilities of 200 megawatt-hours (MWh) or more, the electric transmission lines from these facilities to the first point of interconnection with the existing transmission grid, and facilities that manufacture or assemble clean energy or storage technologies or their components with a capital investment of at least \$250 million. In addition, thermal powerplants of 50 MW or more that do not use fossil or nuclear fuels may choose the Opt-in Certification process rather than the CEC's Application for Certification (AFC) process.

The CEC is the "lead agency" under the California Environmental Quality Act and is required to prepare an environmental impact report for any facility that elects to opt-in to the CEC's jurisdiction. With exceptions, the issuance of a certificate by the CEC for an eligible facility is in lieu of any permit, certificate, or similar document required by any state, local, or regional agency, or federal agency to the extent permitted by federal law, and supersedes any applicable statute, ordinance, or regulation of any state, local, or regional agency, or federal agency to the extent permitted by federal law. The CEC's authority under the Opt-in Certification program does not supersede the authorities of the California State Lands Commission, the California Coastal Commission, or the San Francisco Bay Conservation and Development Commission, if applicable, the State Water Resources Control Board or applicable regional water quality control board, or, in the case of manufacturing facilities, the applicable local air quality management district or the Department of Toxic Substances Control.

The CEC is required to prepare an environmental impact report (EIR) and make its decision on the application within 270 days of receiving a complete application. The Fountain Wind Opt-in application has not been deemed complete at this time. Once the application is deemed complete, the CEC staff will initiate consultation with all responsible and trustee agencies on the scope and content of the EIR, and will begin consultation with California Native American tribes that request consultation with the CEC. The CEC will conduct public meetings in the project area, including an informational and public scoping meeting during the development of the EIR, and a public workshop during the 60-day comment period on the Draft EIR, which will be included as part of the CEC's Staff Assessment of the application. After the conclusion of the public comment period, the CEC staff will publish an updated Staff Assessment (which will include a Final EIR), and the CEC's Executive Director's recommendation on whether the CEC should certify the EIR and issue a certificate (permit) for construction and operation of the proposed project. The updated Staff Assessment and Executive Director's recommendation will be published at least 30 days before the CEC's consideration at a public meeting.

The other agencies that retain their permitting authorities must take final action on any additional permits within 90 days of the CEC issuing a certificate.

Public Participation
The CEC welcomes public participation in the Opt-in review process. A copy of the Fountain Wind Opt-in application as well as other project information, can be found on the CEC website at <https://www.energy.ca.gov/powerplant/wind/fountain-wind-project>. To stay informed about this project and receive notice of upcoming meetings and workshops, sign up to the project subscription, which can be accessed on the same project webpage. Once enrolled, automatic email notifications are sent when documents and notices are posted to the project webpage.

For technical questions about the project please contact Leonidas Payne, project manager, by email at Leonidas.payne@energy.ca.gov.
The CEC's Office of the Public Advisor, Energy Equity, and Tribal Affairs is available to provide information on, and assistance with, public participation in CEC proceedings. The Public Advisor's Office can be reached by phone at (916) 957-7910 and by email at publicadvisor@energy.ca.gov.

Media questions should be directed to the CEC's Media Office by phone at (916) 654-4989 or by email at mediaoffice@energy.ca.gov.
February 28, 2023 #0005610159

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**Native American Heritage Commission
Native American Contact List
Shasta County
2/7/2023**

Greenville Rancheria of Maidu Indians

Kyle Self, Chairperson
P.O. Box 279 Maidu
Greenville, CA, 95947
Phone: (530) 284 - 7990
Fax: (530) 284-6612
ksself@greenvillerrancheria.com

Susanville Indian Rancheria

Deana Bovee, Chairperson
745 Joaquin Street Maidu
Susanville, CA, 96130 Paiute
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Fax: (530) 257-7986 Washoe
dovee@sir-nsn.gov

Pit River Tribe of California

Natalie Forrest-Perez, Tribal
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THPO@pitrivertribe.org

Winnemem Wintu Tribe

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Pit River Tribe of California

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Winnemem Wintu Tribe

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Wintu Tribe of Northern California

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Fort Jones, CA, 96032 Klamath
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Redding Rancheria

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melodieh@redding-rancheria.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Fountain Wind Energy Project Request, Shasta County.

Message

From: Chris Huntley [Chuntley@aspeneg.com]
Sent: 3/17/2023 8:27:29 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]; Watson, Carol@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=84e32d50c7dc47d89812b468a50090ed-Watson, Car]; Leane Dunn [LDunn@aspeneg.com]; Aurie Patterson [apatterson@aspeneg.com]
CC: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Hilliard, Jon@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=27a838bfda534669858cb8cf13dd12a4-Hilliard, J]; Roark, Gabriel@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed87ff1e22cd49f3aaff644c82538d46-Roark, Gabr]; Fooks, Brett@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=870df74143964b71ada0039bf13c5a9a-Fooks, Bret]; DeCarlo, Lisa@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1cfd2f38a8c4fd68db77faf8b84b1b0-DeCarlo, Li]; Ponce, Mariah@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc5faa5d564c4cf3a2f49468b736b6c2-b2346f64-e7]; Vorters, Dian@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2c5604e712a74c029e412542e0db72ac-Vorters, Di]
Subject: RE: comment letter from former Shasta County commissioner re Fountain Wind project (23-OPT-01)

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Lon,

Thank you for sending this out. We will take a look.

Best,

Chris

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Friday, March 17, 2023 11:42 AM
To: Watson, Carol@Energy <Carol.Watson@energy.ca.gov>; Chris Huntley <Chuntley@aspeneg.com>; Leane Dunn <LDunn@aspeneg.com>; Aurie Patterson <apatterson@aspeneg.com>
Cc: eric.knight@energy.ca.gov; Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>; Roark, Gabriel@Energy <gabriel.roark@energy.ca.gov>; Fooks, Brett@Energy <Brett.Fooks@energy.ca.gov>; DeCarlo, Lisa@Energy <Lisa.DeCarlo@energy.ca.gov>; Ponce, Mariah@Energy <Mariah.Ponce@Energy.ca.gov>; Vorters, Dian@Energy <Dian.Vorters@Energy.ca.gov>
Subject: Re: comment letter from former Shasta County commissioner re Fountain Wind project (23-OPT-01)

...and per the attached Planning Commission agenda notice, still is a member of the Shasta County Planning Commission.

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Friday, March 17, 2023 11:38 AM
To: Watson, Carol@Energy <Carol.Watson@energy.ca.gov>; Chris Huntley <Chuntley@aspeneg.com>; Leane Dunn <LDunn@aspeneg.com>; Aurie Patterson <apatterson@aspeneg.com>

Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>; Roark, Gabriel@Energy <gabriel.roark@energy.ca.gov>; Fooks, Brett@Energy <Brett.Fooks@energy.ca.gov>; DeCarlo, Lisa@Energy <Lisa.DeCarlo@energy.ca.gov>; Ponce, Mariah@Energy <Mariah.Ponce@Energy.ca.gov>; Vorters, Dian@Energy <Dian.Vorters@Energy.ca.gov>

Subject: Re: comment letter from former Shasta County commissioner re Fountain Wind project (23-OPT-01)

Apologies—my email mistakenly said the Mr. Kerns was a former Shasta County Supervisor—he was a member of the Planning Commission.

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>

Sent: Friday, March 17, 2023 11:07 AM

To: Watson, Carol@Energy <Carol.Watson@energy.ca.gov>; Chris Huntley <Chuntley@aspeneg.com>; Leane Dunn <LDunn@aspeneg.com>; Aurie Patterson <apatterson@aspeneg.com>

Cc: Knight, Eric@Energy <Eric.Knight@energy.ca.gov>; Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>; Roark, Gabriel@Energy <gabriel.roark@energy.ca.gov>; Fooks, Brett@Energy <Brett.Fooks@energy.ca.gov>; DeCarlo, Lisa@Energy <Lisa.DeCarlo@energy.ca.gov>; Ponce, Mariah@Energy <Mariah.Ponce@Energy.ca.gov>; Vorters, Dian@Energy <Dian.Vorters@Energy.ca.gov>

Subject: Fw: comment letter from former Shasta County commissioner re Fountain Wind project (23-OPT-01)

I received this comment letter from former Shasta County supervisor Steven Kerns yesterday. He raises Bio and Wildfire related concerns with the Fountain Wind project. He sent this to me directly but has not docketed it.

Steven Kerns is the same commissioner quoted in the first of this series of two articles discussing Pit River tribal concerns.

<https://shastascout.org/with-fountain-wind-appeal-pending-pit-river-tribe-continues-battle-for-sacred-sites/>

<https://shastascout.org/with-fountain-winds-ties-to-corporations-worth-billions-is-it-a-form-of-green-colonialism/>

Lon Payne--Project Manager
California Energy Commission

From: skerns7118@aol.com <skerns7118@aol.com>

Sent: Thursday, March 16, 2023 2:14 PM

To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>

Subject: Fwd: Fountain Wind Deficiency letter.

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Subject: Fountain Wind Deficiency letter.

Dear Mr. Payne,

Please find my comments regarding the Fountain Wind Deficiency letter attached.

Thank you.

Yours respectfully

Steven J. Kerns, Principal and Certified Wildlife Biologist
Wildland Resource Managers
Round Mountain, California 96084
530 472-3437

To: Mr. Leonidas Payne, Project Manager

California Energy Commission, Environmental Office
715 P. Street MS-15
Sacramento, California 95814
Email: Leonidas.Payne@energy.ca.gov

Subject: Fountain Wind LLC Deficiency Letter

March 14, 2023

Dear Sir:

Introduction:

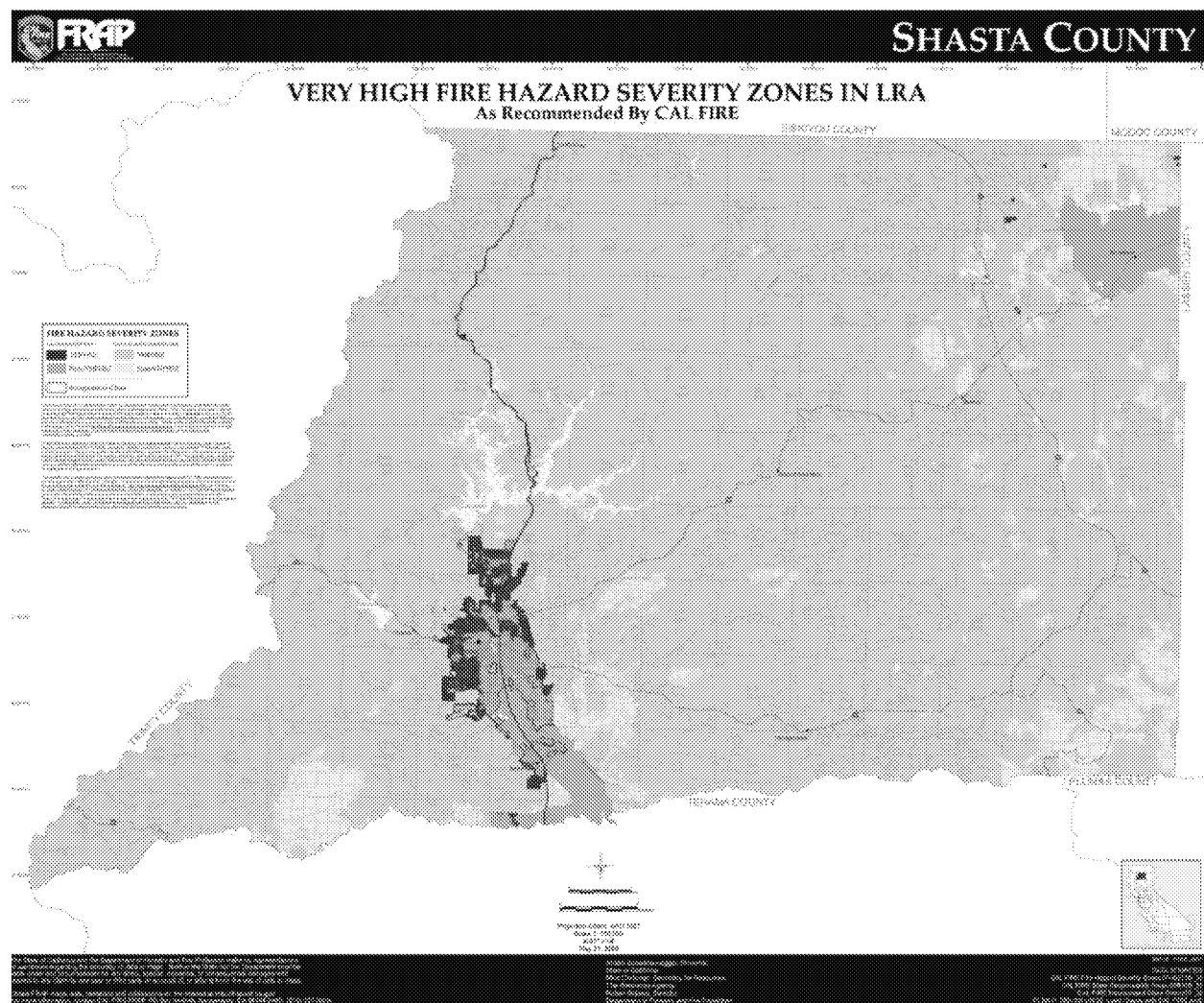
By way of introduction, my name is Steven Kerns and I am a Certified Wildlife Biologist, California State Certified Spotted Owl Expert, Shasta County Planning Commissioner and have served on the Bureau of Land Management's Resource Advisory Board for Northeast California and Western Nevada. My wife and I are the owners of Wildland Resource Managers, a management consulting group working with the timber, agricultural, mining and housing industries throughout the north state. I was one of the five Shasta County Planning Commissioners who voted to deny the Fountain Wind Project and helped draft the Shasta County Zoning ordinance barring industrial wind development in all unincorporated areas of Shasta County.

The Experts

I would like to bring to your attention that the men on the Shasta County Planning Commission who made that decision have vast experience in Shasta County resource management. One is a Registered Professional Forester with over 50 years' experience working in forest management in the north state, was a red-carded fire fighter with the Shasta Trinity National Forest and has vast experience with fire behavior. Another is a professional landscape architect, partner of a major local engineering and planning firm, and has worked on the impacts of major developments on natural resource landscapes across the north state. Another is a 4th generation plumber who is also a pilot and has served on the board of the California Pilots Association. He is intimately familiar with air traffic safety in our county. Another owns his own painting business and has served on the board of directors of the California Deer Federation. Finally, I began my resource management career with the California Department of Fish and Game (now Wildlife), then worked as a forest biologist and red-carded fire fighter on the Shasta Trinity National Forest prior to starting our biological consulting business. All of us serving on the Commission are long time Shasta County Residents (over 30 years for the newest) and all have been impacted by the fires that have burned within our county. Three of the five have nearly lost our homes to one of the Shasta County fires. We studied and heard testimony on the original Fountain Wind Project for over three years after which we all came to the same conclusion; industrial wind farms have no place in the Shasta County's forest and woodland environments.

Issues of Concern: Fire

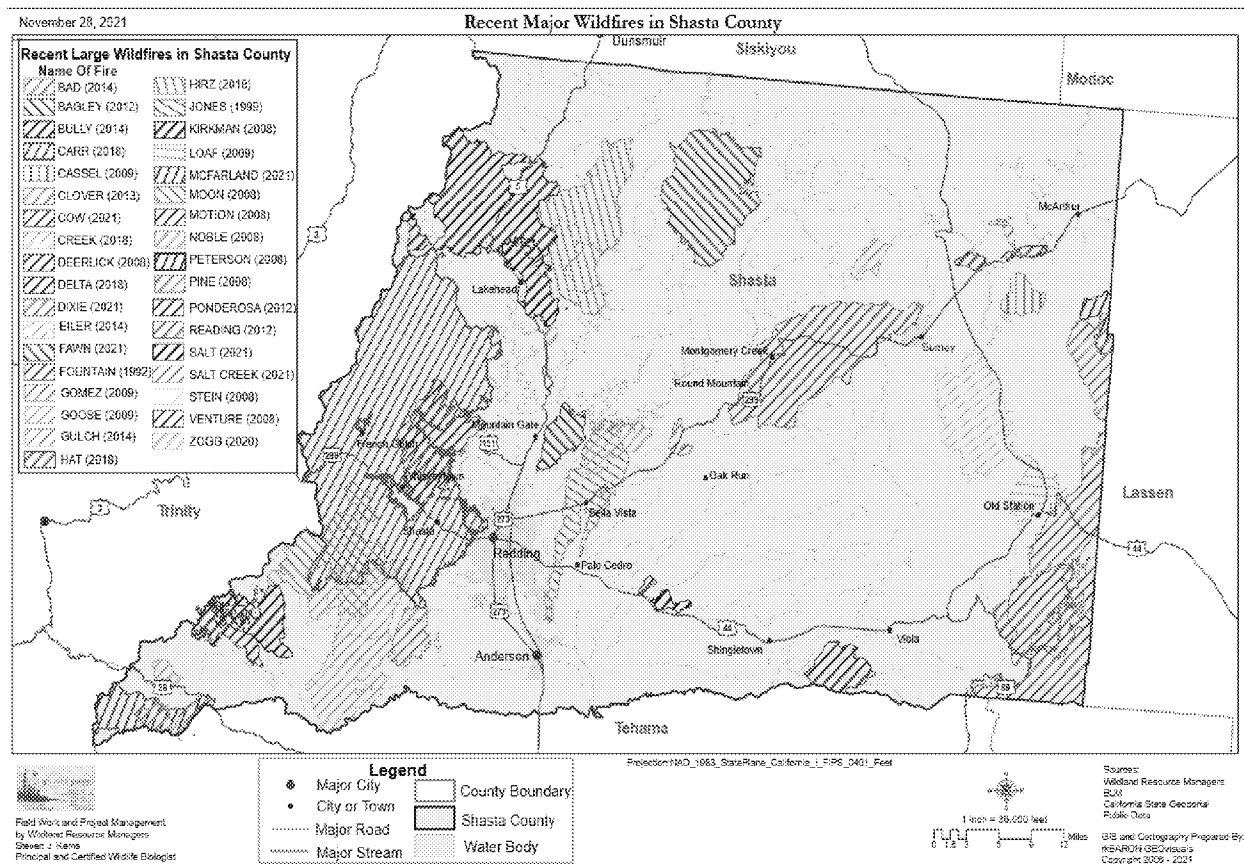
I am writing to address several issues in the CEC Deficiency letter of 2/10/23 to Fountain Wind LLC concerning their application to construct up to 48 wind turbines in the Montgomery Creek/Round Mountain area of Shasta County. As you are aware, that project was denied by the Shasta County



From the Cal-Fire map it may be clearly seen that Shasta County is in a fire climax ecosystem due to the north state weather, soils, topography, and vegetative communities. Many of the vegetative species found in the county such as wedgeleaf ceanothus, lemon ceanothus, bitterbrush, chemise and others have highly flammable oil and resin content and by nature are fire climax species. This combination of weather, topography and vegetative composition causes Shasta County every summer to experience "fire season." The results of "fire season" may be seen in Figure 2 showing that most of the county has experienced large catastrophic fires within the last several years.

During public testimony our Commission heard from air tanker pilots that a project such as Fountain Wind creates a no-fly zone for air tankers and rotor wing aircraft due to the location and size of the turbines. The ability to use air attack on fires is key to containing a fire as rapidly as possible, thereby reducing its destructive impacts to human life and natural resources. This fact cannot be understated for our county-we must have the ability to fight fire with and by every available means. A windfarm removes air attack and significantly limits firefighting capability, thereby endangering people's lives, property and resources. You cannot mitigate for a life lost.

Figure 2. Major wildfire locations in Shasta County



Biological Resources, two examples

In Attachment A of the biological section in the deficiency letter a number of species, both plant and animal, were listed that should be addressed as potentially impacted by the project's development. This assessment can be made fairly easily by a competent biologist looking at a species' habitat requirements and determining if such habitats exist within or near the project area. Once those species that could be impacted are identified, mitigation can often be made by either adjusting the project's footprint or purchasing mitigation credits in one form or another. But to take this approach for an industrial wind farm over a forest ecosystem is completely inadequate in that the windmills not only are a continual source of a taking (kill, harm or harass) of certain species by their location and continual movement of the blades, but also prevent through time, the effective management of ecosystem change brought about by a wildfire, as previously described.

I cite two examples:

Bats:

Bats are critical to California agriculture. They feast on insects each night, adding up to more than \$3.7 billion worth of pest control each year in the U.S. (NPS Web pg.). When bats forage on insects, there are fewer insect pests causing damage to crops, reducing a farmer's need to invest as much in pesticides. However, wind energy development affects bats through direct mortality and indirectly through impacts on habitat structure and function (Arnett et al. 2007; Arnett 2012; NRC 2007; Strickland et al. 2011). Arnett and Baerwald (2013) estimated that cumulative bat fatalities in the USA and Canada ranged from between 0.8 to 1.7 million over a 12-year period from 2000 to 2011. This estimate was projected to increase by 0.2–0.4 million bats in 2012 based on the assumptions of installed wind power capacity. Bats are killed by blunt force trauma (barotrauma) and may also suffer from inner ear damage and other injuries not readily noticed by examining carcasses in the field (Baerwald et al. 2008; Grodsky et al. 2011; Rollins et al. (2012). Kunz et al (2007) proposed several hypotheses that may explain why bats are killed and some of these ideas have subsequently been discussed by others (e.g., Cryan and Barclay 2009; Rydell et al 2010a). Collisions at turbines do not appear to be chance events. Bats are attracted to turbines either directly, as turbines may resemble roosts (Cryan 2008), or indirectly, because turbines attract insects on which the bats feed (Rydell et al. 2010b). Horn et al. (2008) and Cryan et al. (2014) provide video evidence of the possible attraction of bats to wind turbines-such impact to bat species cannot be mitigated away as the source of the impact continues through time due to the continual motion of the windmill blades. Within the footprint of the windfarm, bat habitat will be eliminated as forest structure is removed to make way for the building of the turbines and their associated structures. But the key point from the literature is that wind turbines attract bats and in doing so, there is on-going bat mortality due to their existence and movements.

Owls:

Within Shasta County there are a number of owl species present including two listed species, the Northern and the California spotted owl. Both species have similar habitat requirements including, but not limited to, a sufficient prey base, a multi-story forest canopy structure, available water, suitable

nesting structure and suitable roosting and dispersal habitat. In-short, these species, along with goshawks, red tree voles, flying squirrels, fishers and martins are “in-forest” dwelling species.

After the Carr Fire of 2018 our firm (Wildland Resource Managers (WRM)) was contracted to investigate whether owls were present in territories that were burned over by the fire. What we found was that if the fire had burned the tree canopy as well as the understory, owls were not present. This was to be expected as forest canopy structure as well as prey-supporting habitat was gone. Simply, there was no way for an owl to make a living.

In 1992 there were approximately 140 known spotted owl territories within Shasta County (USDA. 1992). The fires shown in Figure 2 burned through 80% of those territories impacting approximately 112 owl territories to some extent. From the results of our surveys in 2018 it may be postulated that owls from those territories were either lost or displaced.

Figure 3 Wildland Resource Managers owl survey crew, Carr Fire 2018.



As seen in Figure 3, the timber stand behind the owl survey crew is no longer suitable owl habitat as herbaceous vegetation as well as canopy structure has been consumed by the fire. This eliminates suitable habitat for prey species as well as arboreal habitat for nesting, roosting, thermo cover, and dispersing.

The question then becomes if an owl is not killed outright by the fire, what happens to it? Our firm has been engaged in spotted owl surveys across northern California annually since 1988. What we have found is that generally all suitable owl habitat is occupied, either by a spotted owl or barred owl. So, a displaced owl must either displace another owl, relocate some distance to an un-occupied habitat, or die. At the very least, a fire causes a major disruption to individuals of the species and their ability to reproduce. The only way to mitigate this disruption and loss of habitat is to contain a wildfire as rapidly as possible. Hence the necessity of bringing all fire fighting resources to the scene as rapidly as possible. Air attack is critical to that effort and a windfarm is a major hinderance to that effort.

I cite these two examples to make this point. The impacts of this project must be seen on the biological macro-scale not the micro-scale. It is insufficient to assess just the foot print area's impact to plant and animal species but rather the ongoing impacts produced by the project operations and the exceedingly detrimental impacts of the inability to bring firefighting resources to bear in the area of a wind farm. The impacts and potential impacts go far beyond the immediate footprint area.

Skewed thinking:

In their brochure entitled "Introducing the Revised Fountain Wind Project," which was sent to Shasta County residents, ConnectGen states that the revised project, (the one now being considered by your agency), will reduce "impacts to habitat and wildlife" (ConnectGen 2022). The statement is correct in saying that reducing the project from 72 turbines to 48 will have less impact but by reference acknowledges there will be impacts although not discussing the severity of those impacts. Then in a letter to Shasta County residents from Fountain Wind.com, Henry Woltag, Project Manager, states that the project "preserves Shasta County's diverse wildlife including birds and bats and takes every effort to mitigate environmental impacts to the county's pristine natural resources." The letter goes on the state that the project "exceeds or meets every federal, state and local law" (Woltag. 2021). Sadly, these statements are simply incorrect. If you are going to "preserve" then there is no reason to "mitigate." Rather, the project will have on-going and devastating impacts on several sensitive wildlife species, two of which have been discussed above and will result in a "taking" of listed wildlife species either by direct killing of individuals or by habitat modification to where individuals of a species will be displaced. ConnectGen is a Texas based company and as evidenced by their publications has little understanding of northern California forest ecology. If they did, they never would have proposed this project in Shasta County.

A decision and action at two levels

The members of the Shasta County Resource Planning Department, Planning Commission and Board of Supervisors recognized the dangers of the Fountain Wind Project and similar projects to the citizens and natural resources of our county. The dangers of wildfires extend far beyond the footprint of the Fountain Wind Project. The wind turbines would be an obstruction to the most effective firefighting tool, the aerial application of fire retardants. The Shasta County Planning Commission and Board of Supervisors voted to deny the project and the Board of Supervisors put in place a protective zoning ordinance. These actions were taken after 3 plus years of study, fact finding and public testimony. I ask that you recognize that extensive effort by qualified resource experts and support those decisions by denying Fountain Wind's application. Thank-you for your consideration of this important issue.

Respectfully submitted,

Steven J. Kerns

Steven J. Kerns, Principal and CWB
Wildland Resource Managers
P.O. Box 102
Round Mountain, California 96084
Skerns7118@aol.com

References cited

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info@fountainwind.com.

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<http://www.batcon.org/pdfs/wind/National%20Wind%20Coordinating%20Collaborative%202011%20Comprehensive%20Guide%20to%20Studying%20Wind%20Energy%20and%20Wildlife%20Interactions.pdf>.

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Message

From: Payne, Leonidas@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: 3/21/2023 8:10:36 PM
To: Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]; Vorters, Dian@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2c5604e712a74c029e412542e0db72ac-Vorters, Di]; Ponce, Mariah@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc5faa5d564c4cf3a2f49468b736b6c2-b2346f64-e7]
Subject: Fw: Fountain Wind data request discussion (3/22 12pm PST Call)

FYI

From: Belanger-Smith, Katrina <Katrina.Belanger-Smith@stantec.com>
Sent: Tuesday, March 21, 2023 12:57 PM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>; DeCarlo, Lisa@Energy <Lisa.DeCarlo@energy.ca.gov>
Cc: Barns, Caitlin <Caitlin.Barns@stantec.com>; John Kuba <jkuba@connectgenllc.com>; Henry Woltag <hwoltag@connectgenllc.com>; Mudge, Annie <amudge@coxcastle.com>; Lance Olenius <lolenius@connectgenllc.com>; Mark Lawlor <mlawlor@connectgenllc.com>
Subject: Re: Fountain Wind data request discussion (3/22 12pm PST Call)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon and Lisa,

Caitlin is out sick today so I am sending this to you on her behalf. Below are some questions in preparation for tomorrow's 12pm PST Fountain Wind call.

1. DR Response Process: Confirm rolling responses and rolling informal feedback from CEC on responses. Discuss scope of informal feedback and ability of applicant to rely prior to completeness determination. Confirm that upon submission of final tranche of responses, CEC has 30 days to review for completeness again.
2. Comments express views about the adequacy of the Shasta County's EIR and/or request revisions to sections of that EIR. See e.g. Alt-03 and ALT2-02 on no project alternative, ALT2-02 on small wind project alternative, HAZ-01 on decommissioning impacts, TRAF-001 on VMTs, TRAF-002 on Regulatory setting, TRAF-004 on table from DEIR on roadway capacities. Does CEC staff want the applicant to rewrite sections of the County's EIR to address the comments?
3. PO-5, PO-12 and PO-13: requests for information about each proposed "transmission line route." The project does not propose any "transmission line routes." Transmission lines carry voltage of 68kV or higher. The project proposes collection lines that will operate at 34.5kV. Confirm transmission line related requests are not applicable.
4. Permits From Other Agencies. Public Health (PH)-012 requests "a schedule indicating when the necessary permits from Shasta County AQMD will be obtained." Because the CEC process supersedes air permitting requirements, please confirm that we will not be obtaining permits from Shasta County AQMD. Confirm scope of all superseded permitting requirements: Caltrans, Shasta County, CalFire, Shasta County AQMD.
5. Multiple requests for information that applicant does not have or cannot reasonably obtain, including data in the possession of Shasta County:

- a. ALT2-03: Request for “reasonably foreseeable projects or activities that will assist California in meeting the SB 100 renewable energy generation targets.” Need to define scope; specific data about other projects that would assist CA in meeting SB 100 targets are not available to applicant.
 - b. LU2-001: Request for “local and regional planning projections for Shasta County.” Need to define scope; data are not available to applicant except through Shasta County.
 - c. ALT2-02-and LU2-01: - Request for “foreseeable future development of small wind energy systems as a result of 2022 amendments to the Shasta County Code.” Need to define scope; data are not available to applicant.
 - d. LU2-01: An “updated cumulative projects list that includes planned/proposed or permitted projects since August 2019.” Data are not available to applicant; data in possession of Shasta County.
 - e. LU2-01: Provide “Shasta County's consistency determination of each particular project component with each policy and zoning requirement and justification for consistency.” Need to define scope. In staff report to Planning Commission, Shasta County planning staff found that the project was consistent with general plan and zoning. No further data is available to applicant.
 - f. LU2-03: Please describe conditions of approval that Shasta County would attach to this project were it the permitting agency. Applicant has already provided the County planning staff's recommended conditions of approval. No further information about what conditions Shasta County would apply to the project is available to the applicant.
6. Comments are made requesting submission of plans and applications that normally would not be submitted until just before construction. See for example WM-005 requesting Hazardous Materials Business Plan, , GEO-03 requesting Final Geotech Report , WS-03 and WS-04 (Worker Safety Plans); RWQCB-14 requesting SWPPP. We would like confirmation that these plans and applications can be submitted later in the process, as pre-construction compliance filings, and are not required for the application to be determined to be complete.
 7. Project Overview (PO)-5: Request is made for a full-page color photographic reproduction of “the site” prior to construction and a simulation after construction. The site is 4,500 acres; not possible to capture a before and after visual of “the site” in the format requested.
 8. Multiple requests for maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff). Will shapefiles suffice as an appropriate and agreeable alternative?
 9. Air Quality: AQ/GHG analysis was conducted for larger project and still found no significant impacts. Discuss request to re-run the analysis for a smaller project; a re-running of the models will not change the LTS conclusion.

Thank you,
Katrina

Katrina Bélanger-Smith, M.S. (she/her)
Senior Biologist, Environmental Services

Direct: (925) 285-9354
Katrina.Belanger-Smith@stantec.com

Stantec
1340 Treat Boulevard Suite 300
Walnut Creek CA 94597-7966 US



PLANNING COMMISSION

1855 Placer Street, Suite 103
 Redding, California 96001
 (530) 225-5532
 (530) 245-6468 FAX

Commissioner James Chapin, District 1
 Commissioner Tim MacLean, District 2
 Commissioner Steven Kerns, District 3
 Commissioner Donn Walgamuth, District 4
 Commissioner Gabe Ross, District 5

AGENDA

REGULAR MEETING OF THE

SHASTA COUNTY PLANNING COMMISSION

Thursday, February 9, 2023, 2:00 p.m.

In addition to this Regular Meeting, the Planning Commission welcomes you to its regularly scheduled meetings which are scheduled for the second Thursday of each month at 2:00 p.m. in the Board of Supervisors Chambers on the second floor of the Shasta County Administration Center, 1450 Court Street, Suite 263, Redding, California.

TO ADDRESS THE COMMISSION: Members of the public may directly address the Planning Commission on any agenda item on the regular calendar before or during the Commission's consideration of the item. In addition, the Planning Commission provides the members of the public with a Public Comment-Open Time period, where the public may address the Commission on any agenda item and may address the Commission on any matter not listed on the agenda that is within the subject matter jurisdiction of the Planning Commission. Pursuant to the Brown Act (Govt. Code section 54950, et seq.), **Commission action or discussion cannot be taken** on non-agenda matters, but the Commission may briefly respond to statements or questions and, if deemed necessary, refer the subject matter to the appropriate department for follow-up and/or to schedule the matter on a subsequent Commission agenda.

PRESENTATION OF DOCUMENTS: All items presented to the Planning Commission during a public hearing, including but not limited to letters, e-mails, petitions, photos, maps or other kinds of information shall become a permanent part of the record and must be submitted to the clerk of the commission. It is advised that the presenter create copies in advance for their own records. If you have documents to present for the members of the Planning Commission to review, please provide a minimum of eight copies.

The Planning Commission's decision on any noticed public hearing item may be appealed to the Board of Supervisors. See "Notes" at the end of the regular agenda.

CALL TO ORDER

Pledge of Allegiance
 Roll Call

PUBLIC COMMENT PERIOD - OPEN TIME

PLANNING DIRECTOR'S REPORT

REGULAR CALENDAR

R1 Approval of Minutes:

Approve the minutes of the meeting held on January 12, 2023, as submitted.

R2 Use Permit 21-0007 (Parkinson) - Continued from December 16, 2022: Gary and Rocio Parkinson have requested approval of Use Permit 21-0007 to legalize an existing lavender oil distillery with an on-site tasting/sampling room and accessory lavender oil distillery events and annual lavender harvest. An exception from the off-street parking area surfacing and striping requirements of Shasta County Code sections 17.86.100 and 17.86.150 requiring asphalt paving with marked spaces for parking areas containing five or more spaces is proposed. The lavender oil distillery would consist of a 1,360-square-foot multipurpose building for lavender processing, lavender product sampling, lavender oil distillery workshops, retail sale of lavender products and other agricultural products grown on the premises, and storage. The proposal includes up to two accessory events per month with up to ten cars per event, with a maximum of 12 accessory events per year, and an annual lavender harvest event hosting up to 500 visitors over a two-day period. The 7.56-acre project site is located at 15875 Butterfield Road, Anderson, CA 96007 (Assessor's Parcel Number 205-680-013), approximately 0.3-miles southwest of the intersection of Butterfield Road and Whispering Canyon Drive. Staff Planner: Elisabeth Towers. Supervisor District: 5. Proposed CEQA Determination: Exempt. Staff recommends that the Planning Commission:

1. Conduct a public hearing.
2. Close the public hearing.
3. Adopt a resolution to: a) find that Use Permit 21-0007 is exempt from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines sections 15301 and 15303 and there are no unusual circumstances under State CEQA Guidelines section 15300.2(c); b) adopt the recommended findings listed in Resolution 2023-003, including modifications, if any, the by the Planning Commission; and c) approve Use Permit 21-0007, based on the recommended findings and subject to the conditions of approval set forth in Exhibit A to Resolution 2023-003, including modifications, if any, the by the Planning Commission.

R3 Zone Amendment 22-0004 (Lakey) - Continued from January 12, 2023: The Lakey Family 2008 Trust and the Thompson Family Trust et al. have requested to change Limited Agriculture combined with Building Site 27-Acre Minimum Lot Area (A-1-BA-27) zone district to the Limited Agriculture combined with Building Site 20-Acre Minimum Lot Area (A-1-BA-20) and the Limited Residential combined with Mobile Home (R-L-T) zone districts for the subject parcel to be consistent with resultant parcel sizes and property lines proposed under Property Line Adjustment 22-0010. The 25.08-acre project site is located at 41397 Opdyke Road, Hat Creek, CA 96040, being a portion of Sections 15 and 22 of T.34N., R.4E., and further described as Parcel A of Property Line Adjustment (PLA) 33-94 (3204 O.R. 446) (Assessor's Parcel Number (APN) 031-580-010 as that APN is assigned for purposes of the 2022 Regular Assessment Roll). Staff Planner: Elisabeth Towers. Supervisor District: 3. Proposed CEQA Determination: Exempt. Staff recommends that the Planning Commission:

1. Conduct a public hearing.
2. Close the public hearing.
3. Adopt a resolution recommending that the Shasta County Board of Supervisors: a) find that Zone Amendment 22-0004 is exempt from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines sections 15061(b)(3) and 15301 and there are no unusual circumstances under State CEQA Guidelines section 15300.2(c); b) adopt the recommended findings listed in Resolution 2023-004, including modifications, if any, the by the Planning Commission; and c) introduce, waive the reading of, and enact an ordinance to amend the Zoning Plan of the County of Shasta identified as Zone Amendment 22-0004, including modifications, if any, the by the Planning Commission.

R4 Use Permit 22-0008 (Halverson): Kelsi Halverson has requested approval of an equestrian facility to provide a maximum of ten one-hour horse riding lessons per week. Non-profit lessons would be offered to first responders, emergency workers, active-duty military, veterans, and their immediate family members and commercial lessons would be offered to the public. The proposal includes a maximum of six assemblages of people (donor days and volunteer training days) per month. The 4.50-acre project site is located at 21308 Faith Avenue, Redding, CA 96003 (Assessor's Parcel Number (APN) 079-130-020 as that APN is assigned for purposes of the 2022 Regular Assessment Roll), approximately 0.1 mile east of the intersection of Intermountain Road and Faith Avenue. Staff Planner: Luis Topete. Supervisor District: 4. Proposed CEQA Determination: Exempt. Staff recommends that the Planning Commission:

1. Conduct a public hearing.
2. Close the public hearing.
3. Adopt a resolution to: a) find that Use Permit 22-0008 is not subject to the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines section 15061(b)(3) and is exempt from CEQA pursuant to State CEQA Guidelines section 15303; b) adopt the recommended findings listed in Resolution 2023-005, including modifications, if any, the by the Planning Commission; and c) approve Use Permit 22-0008 based on the recommended findings and subject to the conditions of approval set forth in Exhibit A to Resolution 2023-005, including modifications, if any, the by the Planning Commission.

R5 Extension of Time 22-0004 (Crookham): Mindy L. Crookham has requested to extend the expiration date for Parcel Map 07-027 by two years to December 12, 2024. The Planning Commission approved Parcel Map 07-027 on June 12, 2008, for the subdivision of the subject parcel into four 5-acre parcels. The project is located in the Shingletown area on a 20-acre property at 8006 Ponderosa Way, approximately one mile north of the intersection of State Highway 44 and Ponderosa Way (Assessor's Parcel Number 093-270-013). Staff Planner: Luis Topete. Supervisor District: 5. Proposed CEQA Determination: Exempt. Staff recommends that the Planning Commission:

1. Conduct a public hearing.
2. Close the public hearing.
3. Adopt a resolution to: a) find that Extension of Time 22-0004 is not subject to the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines section 15061(b)(3); b) adopt the recommended findings listed in Resolution 2023-006, including modifications, if any, the by the Planning Commission; and c) approve Extension of Time 22-0004 for Parcel Map 07-027, based on the recommended findings listed in Resolution 2023-006 and the conditions listed in Resolution 2008-063, including modifications, if any, the by the Planning Commission.

R6 Zone Amendment 23-0001 (Shasta County): The Planning Commission will hold a public hearing to consider recommending that the Board of Supervisors adopt an ordinance amending Title 17, Zoning Plan, of the Shasta County Code (SCC) by amending Section 17.88.335 in light of Assembly Bill 205, which authorizes applications for large wind energy systems to be submitted to the California Energy Commission (CEC) for review and approval, pursuant to Chapter 6.2 of Division 15 of the Public Resources Code (Government Code sections 25545 et seq). The proposed amendments consist of findings by the County of Shasta in connection with applications for large wind energy systems submitted to the CEC and duties to be performed by the Director of Resource Management in conjunction with applications for large wind energy systems filed with the CEC. Staff Planner: Paul Hellman. Proposed CEQA Determination: Exempt. Staff recommends that the Planning Commission:

1. Conduct a public hearing.

2. Close the public hearing.
3. Adopt a resolution recommending that the Shasta County Board of Supervisors: a) find that Zone Amendment 23-0001 is not subject to the California Environmental Quality Act (CEQA) for the reasons stated in Resolution 2023-007, including modifications, if any, the by the Planning Commission; b) adopt the recommended findings listed in Resolution 2023-007; and c) introduce, waive the reading of, and enact an ordinance to amend the Zoning Plan of the County of Shasta identified as Zone Amendment 23-0001, including modifications, if any, the by the Planning Commission.

NON HEARING ITEMS

NH-1 Fountain Wind Project Presentation: Proposed Use Permit 16-007 for the Fountain Wind Project, a 216-megawatt wind energy generation system, was denied by the Shasta County Planning Commission on June 22, 2021, and by the Shasta County Board of Supervisors on October 26, 2021. The California State Legislature approved Assembly Bill (AB) 205, which was signed by the Governor on June 30, 2022. Among other provisions, AB 205 allows the developer of a wind and solar photovoltaic facility with a generating capacity of 50 megawatts or more to submit an application to the California Energy Commission (CEC) rather than to the local jurisdiction in which the project is located. Fountain Wind LLC recently submitted an application to the CEC for the Fountain Wind Project with a total generating capacity of 205 megawatts, which is currently under review by the CEC. Staff recommends that the Planning Commission:

1. Receive a presentation regarding the status of the California Energy Commission's application process for the Fountain Wind Project and the opportunities for Shasta County and members of the public to participate in the process and consider providing direction to staff.

ADJOURN

NOTES:

1. The Planning Commission, at their discretion, may limit individual/group testimony time in the interest of facilitating the meeting to allow all persons who wish to comment the opportunity to do so.
2. Documents associated with the agenda are on file and available for review. The agenda, initial studies, staff reports, and minutes, can be found online at www.co.shasta.ca.us/drm/planning/planning-commission-meetings. Direct inquiries to: Department of Resource Management - Planning Division, 1855 Placer Street, Suite 103, Redding, CA 96001. Phone: (530) 225-5532.
3. Commission actions on tentative maps, use permits, variances, administrative permits, and zoning permits are final unless appealed to the Board of Supervisors. Appeals are subject to fees and filing deadlines. Appeal periods: tentative map, 10 calendar days; use permits, variances, administrative permits, and zoning permits, 5 calendar days. The notice of appeal shall identify, by application number, the action which is the subject of the appeal; shall state the action, finding or determination, and the date thereof, from which the appeal is taken; and shall specifically set forth the grounds upon which the appeal is based. No person wishing to appeal a decision of the Planning Commission should rely on an appeal filed by another person but instead should file their own separate appeal. No appeal shall be deemed to be filed unless any required fee is submitted to the clerk with the notice of appeal. Forms and instructions for filing appeals are available from the Clerk of the Board of Supervisors at 1450 Court Street, Suite 308B, Redding.
4. The Commission's action on Zoning applications establishes the next action. When the Commission recommends approval, the application is automatically scheduled for action by the Board of Supervisors; if the Commission denies the application, the application is not scheduled for Board action unless an interested party files a written request for such consideration. Fees and filing information are available from the Clerk of the Board of Supervisors or from the Planning Division.

5. Following Planning Commission action on a proposed General Plan Amendment any interested party may file a written request for a hearing by the legislative body on the Commission's recommendation by filing such a request with the Clerk of the Board of Supervisors within five calendar days after the Commission action.
6. If you challenge a Planning Commission action in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this agenda, or in written correspondence delivered to the Planning Commission at, or prior to, the public hearing.
7. The County of Shasta does not discriminate on the basis of disability in admission to, access to, or operation of its buildings, facilities, programs, services, or activities. The County does not discriminate on the basis of disability in its hiring or employment practices. Questions, complaints, or requests for additional information regarding the Americans with Disabilities Act (ADA) may be forwarded to the County's ADA Coordinator: Director of Support Services Shelley Forbes, County of Shasta, 1450 Court Street, Room 348, Redding, CA 96001-1676, Phone:(530) 225-5515, California Relay Service: (800) 735-2922, Fax: (530) 225-5345, E-mail: adacoordinator@co.shasta.ca.us. Individuals with disabilities who need auxiliary aids and/or services for effective communication in the County's programs and services are invited to make their needs and preferences known to the affected department or the ADA Coordinator. For aids or services needed for effective communication during Planning Commission meetings, please call the Department of Resource Management (530) 225-5532 five (5) business days before the meeting. This notice is available in accessible alternate formats from the affected department or the ADA Coordinator. Accommodations may include, but are not limited to, interpreters, assistive listening devices, accessible seating, or documentation in an alternate format.

Message

From: Negar Vahidi [NVahidi@aspeneg.com]
Sent: 4/6/2023 5:15:33 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
CC: Kerr, Steven@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d0d5a66bed2249fca830918f58b3b921-Kerr, Steve]; Eileen Allen [EAllen@aspeneg.com]; Tatiana Inouye [Tinouye@aspeneg.com]; Irene Kaufman [IKaufman@aspeneg.com]
Subject: Fountain Wind 23-OPT-01 - Socioeconomics questions from applicant
Attachments: Response to Applicant Socio Questions on DA_040623.docx

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon,

For purposes of documenting (for the Admin Record) and clarifying for the Applicant responses to their questions on some of the Socio DA items, we've gone ahead and used the original docketed Socio DA sheets so that there is a connection in the record of further explaining DA requirements (i.e., we did not create the items needed, the WA Act specifically asks for these items). Please see the last two columns with the Applicant's question and our clarification highlighted.

Let us know if you have any questions.

Negar Vahidi

Executive Vice President
 Planning & Public Policy Director
 Aspen Environmental Group
 (310) 387-6807 cell

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Monday, April 3, 2023 1:01 PM
To: Irene Kaufman <IKaufman@aspeneg.com>; Negar Vahidi <NVahidi@aspeneg.com>
Cc: Kerr, Steven@Energy <Steven.Kerr@energy.ca.gov>
Subject: Fountain Wind project (23-OPT-01) Socioeconomics questions from applicant

ConnectGen is asking for meetings with various technical specialists to go over data adequacy issues, but in the case of socio topics, they thought their questions were pretty straightforward and could be resolved via an email exchange. Here's what the sent me:

- The request asks for "1. Please define the project vicinity and include an explanation for the boundaries of this area (i.e., define the study area)." Please confirm what the "project vicinity" should be.
- The request asks for "information on the skilled workers by craft required for construction." When referring to "Craft" we believe CEC is referring to the different trades, i.e. Electricians (IBEW), Operating Engineers (Operators), Laborers, Ironworkers, Carpenters. Is this correct?
- The request is "Please provide discussion of demographic and community trends, including the following:
 - Provide the low-income population percentage living in the county and communities closest to project site.
 - Provide the minority population percentage living in the county and communities closest to project site.
 - A figure for disadvantaged communities is provided but information on the population percentages or the number of people included in the highlighted regions is not provided. Please provide this information." Communities closest to the Project Site include Round Mountain, Montgomery Creek, and Burney. Are these the communities that should be included?

Please work up some responses and send to me when you can. The rest of these meetings will likely happen in the next couple of weeks, so that's the only direction I have in terms of a deadline.

Lon Payne—Project Manager
California Energy Commission

Message

From: Payne, Leonidas@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: 4/11/2023 4:15:04 PM
To: Aurie Patterson [apatterson@aspeneg.com]
CC: Fooks, Brett@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=870df74143964b71ada0039bf13c5a9a-Fooks, Bret]; Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]
Subject: Fw: Fountain Wind Project (23-OPT-O1)
Attachments: Final Draft for Pilots 2.docx

We got another comment letter discussing wildfire related concerns, particularly the impact of turbines on aerial attack. Similar to the last one from the Shasta County Planning Commissioner, it wasn't docketed, so I responded and asked if they'd like help with that from PAO.

Lon Payne—Project Manager
 California Energy Commission

From: Stephen Fitch <svfitches@yahoo.com>
Sent: Tuesday, April 11, 2023 6:44 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: Fountain Wind Project (23-OPT-O1)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I'm sending the attached letter on behalf of a group of aerial firefighting pilots and myself for your review and consideration.

Stephen Fitch
 Retired Shasta Trinity National Forest Supervisor

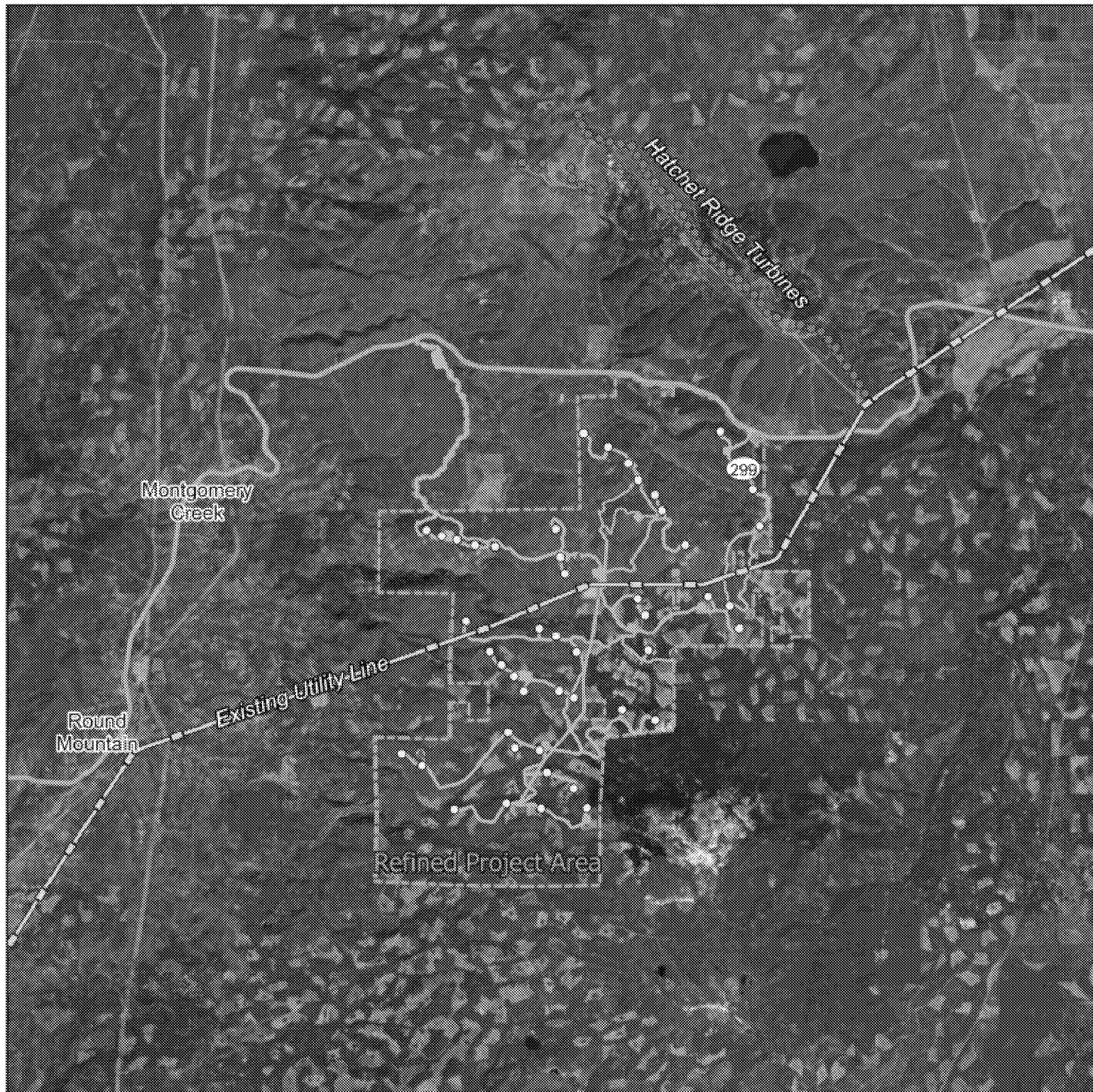
Message

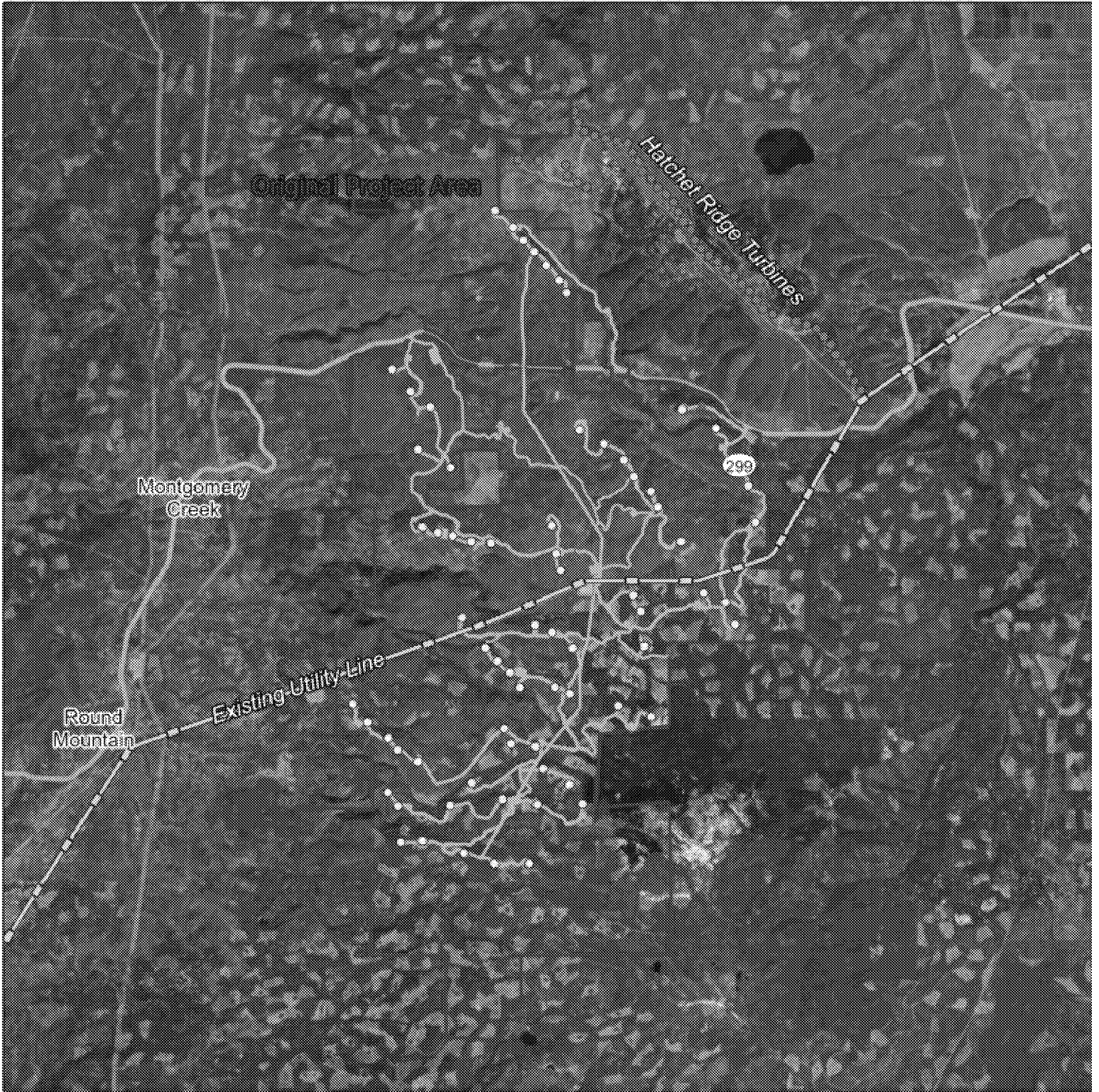
From: Payne, Leonidas@Energy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: 4/13/2023 3:22:05 PM
To: Graves, Sierra@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=45c241df0b224e7f964faf53e30cf8ba-d3acda1c-69]
CC: Leni-Konig, Katrina@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f7dd22b5889843ea84aab9977ffd2f65-Leni-Konig,]; Knight, Eric@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=be42548337f44852a291a9845f226f62-Knight, Eri]
Subject: updated project map for Fountain Wind
Attachments: FW current proposal.jpg; FW original.jpg; FW comparison.jpg

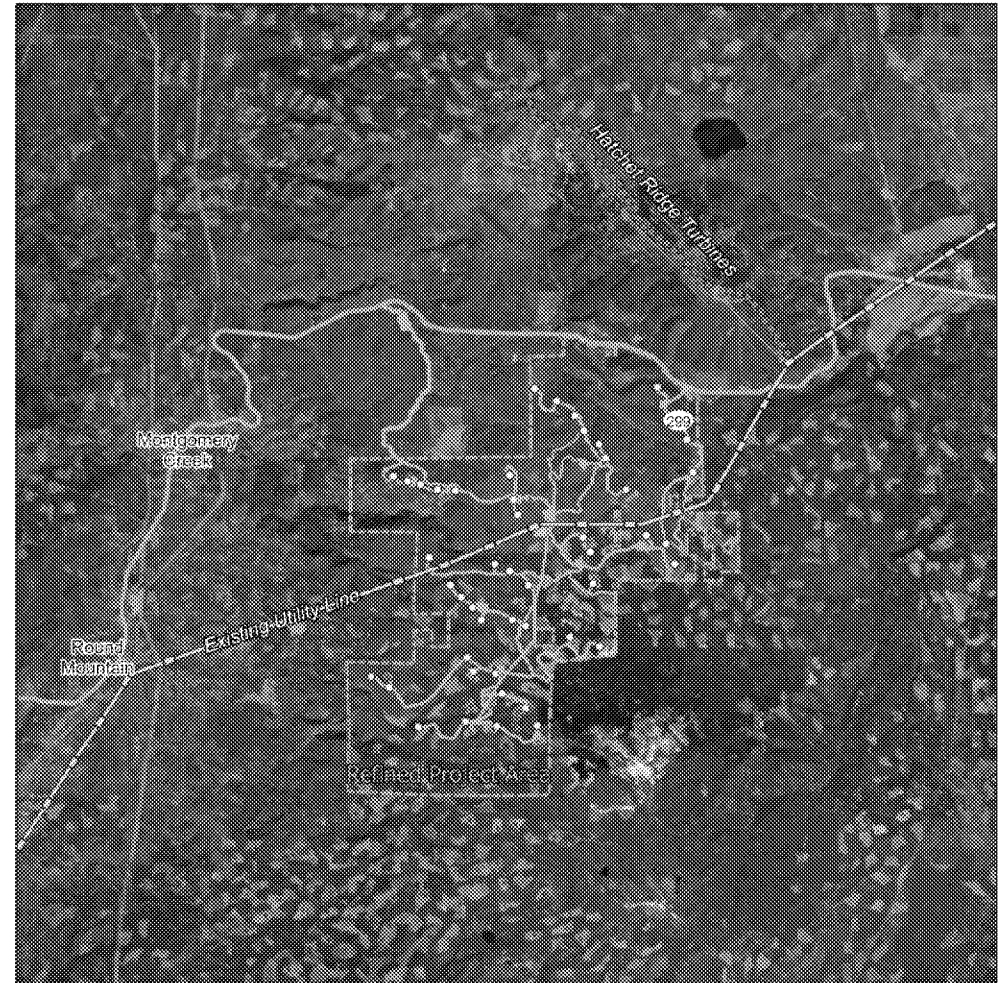
Sierra--I understand you are pulling together the itinerary document for the visit with Pit River tribe next week. The attached figures are better than the site map you have in there now. I'm attaching 3 jpegs. One is the original proposal from when the project went through CEQA analysis with Shasta County. One is the current proposal that CEC is analyzing. The third shows them both side by side. These all have the benefit of showing the nearby Hatchet Wind project, which is operational. You can use whatever suits your purposes best.

The source of these figures is the November 2022 applicant presentation to CEC during prefilng, which was docketed by the applicant at the same time they filed their Opt-in application. <https://efiling.energy.ca.gov/GetDocument.aspx?tn=248296-8&DocumentContentId=82652>

Lon Payne—Project Manager
 California Energy Commission







Message

From: Stephen Fitch [svfitches@yahoo.com]
Sent: 4/11/2023 1:44:32 PM
To: Payne, Leonidas@Energy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9d25dde24e40429efa06c4eed35807-Payne, Leon]
Subject: Fountain Wind Project (23-OPT-O1)
Attachments: Final Draft for Pilots 2.docx
Flag: Flag for follow up

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I'm sending the attached letter on behalf of a group of aerial firefighting pilots and myself for your review and consideration.

Stephen Fitch
Retired Shasta Trinity National Forest Supervisor

To: Payne, Leonidas@Energy[leonidas.payne@energy.ca.gov]; Salyphone, Kenneth@Energy[kenneth.salyphone@energy.ca.gov]
Cc: Hesters, Mark@Energy[Mark.Hesters@energy.ca.gov]; Fooks, Brett@Energy[Brett.Fooks@energy.ca.gov]
From: Ng, Laiping@Energy[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C9D8FEE0B1A94A4BB9EEEA36D5272C9E-NG, LAIPING]
Sent: Thur 4/20/2023 3:25:30 PM (UTC-07:00)
Subject: FW: Fountain Wind (23-OPT-01) transmission deficiencies
PG&E PROPPLN Interconnection Switchyard.pdf

Lon,

The attached PG&E diagram provided additional information for the interconnection. However, we need more details for the PG&E switching station and the project substation as stated in the data adequacy worksheets. Due to the tight time frame for the geothermal projects, I will have to work on those projects first for now. We can set up a follow-up meeting later.

Thank you!

Laiping

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, April 19, 2023 12:48 PM
To: Salyphone, Kenneth@Energy <kenneth.salyphone@energy.ca.gov>; Ng, Laiping@Energy <Laiping.Ng@energy.ca.gov>
Subject: Fw: Fountain Wind (23-OPT-01) transmission deficiencies

Ken and Laiping: Let me know if this material gets the applicant any further in terms of resolving the transmission related deficiencies identified in our Feb. 10 deficiency package. We may need to do a follow-up Teams meeting at some point.

Lon Payne—Project Manager
 California Energy Commission

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Wednesday, April 19, 2023 11:54 AM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Cc: Henry Woltag <hwoltag@connectgenllc.com>
Subject: RE: Fountain Wind check-in call

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon, here's the response from Henry:

We have the option to self-build the interconnection switchyard on behalf of PG&E. So technically we will be building it but it will still be PG&E facilities and they will have ownership of the infrastructure at completion of construction.

Regarding the 230 kV transmission lines, in order to interconnect our station to the grid, PG&E engineers have confirmed that the following needs to happen to facilitate interconnection;

- Removal of one PG&E existing Transmission line structure on 230 kV Cottonwood – Pit #1 Line.
- Replacing the one pole with Four Transmission Steel Poles (TSPs) to cut the existing 230 kV line into the switching station

When we talk about transmission line adjustments these four poles are what we're talking about.

He also included the attachment. If your staff reviews this and determines that this action is considered part of this project, then let's discuss further. The Shasta County EIR determined this infrastructure was a connected action and analyzed it as such but it was not part of the project description for the wind project itself.

Thanks,
Caitlin

From: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Sent: Wednesday, April 19, 2023 7:20 AM
To: Barns, Caitlin <Caitlin.Barns@stantec.com>
Subject: Re: Fountain Wind check-in call

On the transmission question, are you saying the first sentence from CEC technical staff is inaccurate?

"The project proposes a short extension of the existing 230 kV transmission lines that will be routed to the switching station. The project also proposes 34.5 kV overhead lines."

This may be one of those situations where a quick call with the technical specialists who worked on that DA worksheet is the best way to get the clarity you are seeking. I can set that up pretty easily if the lawyers don't need to be on the call. Let me know.

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Tuesday, April 18, 2023 1:25 PM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon, here are some items I'd like to discuss on this call tomorrow:

1. Contact at AQMD? Would you (CEC) like to be on that call?
2. I had an action item for you from our 4/13 call to follow up with the response author to determine what information they need regarding "transmission lines" since this Project is not proposing any (only collector lines). Here is the original discussion point: PO-5, PO-12 and PO-13: requests for information about each proposed "transmission line route." The project does not propose any "transmission line routes." Transmission lines carry voltage of 68kV or higher. The project proposes collection lines that will operate at 34.5kV. Confirm transmission line related requests are not applicable.

Thanks!
Caitlin

PROPLN.dgn 05/12/2021 3:47:07 PM

To: Chris Huntley[Chuntley@aspeneg.com]
Cc: Watson, Carol@Energy[Carol.Watson@energy.ca.gov]; Hilliard, Jon@Energy[jon.hilliard@energy.ca.gov]
From: Jordan, Christine J[christine_jordan@fws.gov]
Sent: Tue 4/18/2023 2:43:56 PM (UTC-07:00)
Subject: RE: [EXTERNAL] RE: 4/18/2023: Question regarding Your Call Today

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Thank you Chris,

Sounds good and for your information, the contact for Sacramento (in case you do not have it) is Rick Kuyper. His phone number is 916-414-6621 and email is: Richard_Kuyper@fws.gov

Christine J. Jordan
Wildlife Biologist
U.S. Fish and Wildlife Service
Yreka, CA
530-841-3111 Office
530-842-4517 Fax
christine_jordan@fws.gov

From: Chris Huntley <Chuntley@aspeneg.com>
Sent: Tuesday, April 18, 2023 2:34 PM
To: Jordan, Christine J <christine_jordan@fws.gov>
Cc: Carol Watson <cwatson@energy.ca.gov>; Hilliard, Jon@Energy <jon.hilliard@energy.ca.gov>
Subject: [EXTERNAL] RE: 4/18/2023: Question regarding Your Call Today

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Christine,

I use my Aspen email for now. Yes, Fountain will have a federal nexus (404 permitting).

We will coordinate with the Sacto office moving forward. Our PM and bio lead at CEC will set up some meetings moving forward.

Best regards and thank you,

Chris

From: Jordan, Christine J <christine_jordan@fws.gov>
Sent: Tuesday, April 18, 2023 2:25 PM
To: Chris Huntley <Chuntley@aspeneg.com>
Subject: 4/18/2023: Question regarding Your Call Today

Hi Chris,

I was not sure how to contact you at the CEC, but does the Fountain Wind Project have a federal nexus, or were you just seeking information from the Service regarding the listed NSO and a question on the survey protocol?

The only reason I ask is because if there is no federal land (looks to be all private), and there is no federal funding or other federal nexus, we would not be directly involved in terms of a section 7 consultation.

Or is an HCP being proposed/considered for the expansion area?

Sorry for the additional questions. The expansion area is just outside of our Yreka FWS Field Office jurisdiction and is in the Sacramento FWS Field Office jurisdiction.

I am happy to answer general questions, but if a section 7 consultation/federal nexus will be there, I can put you in touch with Rick Kuyper in the Sacramento Field Office.

Cheers,
-Christine

Christine J. Jordan
Wildlife Biologist
U.S. Fish and Wildlife Service
Yreka, CA
530-841-3111 Office
530-842-4517 Fax
christine_jordan@fws.gov

To: Barns, Caitlin[Caitlin.Barns@stantec.com]; Hughes, Joseph@Energy[Joseph.Hughes@energy.ca.gov]
From: Payne, Leonidas@Energy[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AA9D25DDE24E40429EFA06C4EED35807-PAYNE, LEON]
Sent: Wed 4/19/2023 7:09:39 AM (UTC-07:00)
Subject: Re: Fountain Wind check-in call

Caitlin—for AQMD, you can use the email and phone listed in John Waldrop's retirement auto-response:

Greetings:

Thanks for your email. I retired from Shasta County AQMD on January 20th, 2023, after nearly 25 years of service!

All of my email will be forwarded to the main air quality email account.

If you would like to send an email directly to the District, please send it to: airquality@co.shasta.ca.us

If you would like to phone the District, please call: 530-225-5674.

Sincerely,

John Waldrop

Shasta County Air Quality District Manager (Retired)

Joey—do you have a more current contact for Shasta County AQMD based on your own work on the Fountain Wind review? Do you have any interest in joining the coordination call that Caitlin and her team will be scheduling with them?

Lon Payne—Project Manager

California Energy Commission

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Tuesday, April 18, 2023 1:25 PM
To: Payne, Leonidas@Energy <leonidas.payne@energy.ca.gov>
Subject: RE: Fountain Wind check-in call

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lon, here are some items I'd like to discuss on this call tomorrow:

1. Contact at AQMD? Would you (CEC) like to be on that call?
2. I had an action item for you from our 4/13 call to follow up with the response author to determine what information they need regarding "transmission lines" since this Project is not proposing any (only collector lines). Here is the original discussion point: PO-5, PO-12 and PO-13: requests for information about each proposed "transmission line route." The project does not propose any "transmission line routes." Transmission lines carry voltage of 68kV or higher. The project proposes collection lines that will operate at 34.5kV. Confirm transmission line related requests are not applicable.

Thanks!
 Caitlin

-----Original Appointment-----

From: Barns, Caitlin
Sent: Wednesday, January 18, 2023 1:22 PM
To: Barns, Caitlin; Lon Payne
Subject: Fountain Wind check-in call
When: Wednesday, April 19, 2023 10:30 AM-11:00 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Hi Lon, would it be possible to move these calls to 10:30 each Wednesday? I have a conflict that's come up at this time.

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 267 737 602 838

Passcode: 3L2e69

[Download Teams](#) | [Join on the web](#)

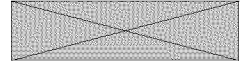
Or call in (audio only)

[+1 587-414-2460,,58373190#](#) Canada, Edmonton

[\(833\) 266-3861,,58373190#](#) Canada (Toll-free)

Phone Conference ID: 583 731 90#

[Find a local number](#) | [Reset PIN](#)



[Learn More](#) | [Meeting options](#)

To: airquality@co.shasta.ca.us[airquality@co.shasta.ca.us]
Cc: Hughes, Joseph@Energy[Joseph.Hughes@energy.ca.gov]; Hull, Robbie C.[rhull@coxcastle.com]
From: Barns, Caitlin[Caitlin.Barns@stantec.com]
Sent: Wed 4/19/2023 12:49:22 PM (UTC-07:00)
Subject: SCAQMD's comments on CEC Fountain Wind Opt-in application

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Hello,

Recently the Shasta County AQMD provided comments to the California Energy Commission on the Fountain Wind Project's opt-in application for certification. Stantec is working on behalf of the developer to address these comments and we would like to set up a call with you to discuss one in particular, concerning the data required for a Permit to Operate for the project's proposed backup generator and the date by which you need that information.

What dates/times would work for you for a phone call in the next two weeks?

Thanks,
Caitlin

Caitlin Barns (she/her)
Senior Biologist
BC 2037 Ecosystems Group Leader
601 SW 2nd Avenue, Suite 1400
Portland, Oregon 97204
503-207-4368



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To: Richard_Kuyper@fws.gov[Richard_Kuyper@fws.gov]
Cc: Watson, Carol@Energy[Carol.Watson@energy.ca.gov]; Hilliard, Jon@Energy[jon.hilliard@energy.ca.gov]; Leane Dunn[LDunn@aspenerg.com]; Hawk, Debra@Wildlife[Debra.Hawk@Wildlife.ca.gov]
From: Chris Huntley[Chuntley@aspenerg.com]
Sent: Fri 4/21/2023 1:39:39 PM (UTC-07:00)
Subject: Fountain Wind: Application for Certification at the California Energy Commission

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Kuyper,

Christine Jordon gave me your contact information and indicated you would be the best person to contact regarding a proposed wind farm (Fountain Wind) that is currently under review at the California Energy Commission (CEC). Aspen holds a contract to provide as needed support to the CEC and I am currently leading up a team of Aspen biologists to conduct a review of baseline bio data and assist with the preparation of a CEQA document.

I had a couple of questions regarding how the FWS considers northern spotted owls (NSO) where they interface with the northern range of California spotted owls (CSO) near the Pit River management line. In addition, we would like to set up some routine calls with you and CDFW (cc'd here) to make sure we are covering all the bases while we move through the regulatory and CEQA process.

If you have a moment, could you give me a short call to discuss the owls.

Best regards,

Chris



Chris Huntley
Executive Vice President
Biological Resources Director
www.aspeneg.com

5020 Chesebro Road, Suite 200
Agoura Hills, CA 91301
Cell: 818-292-2327

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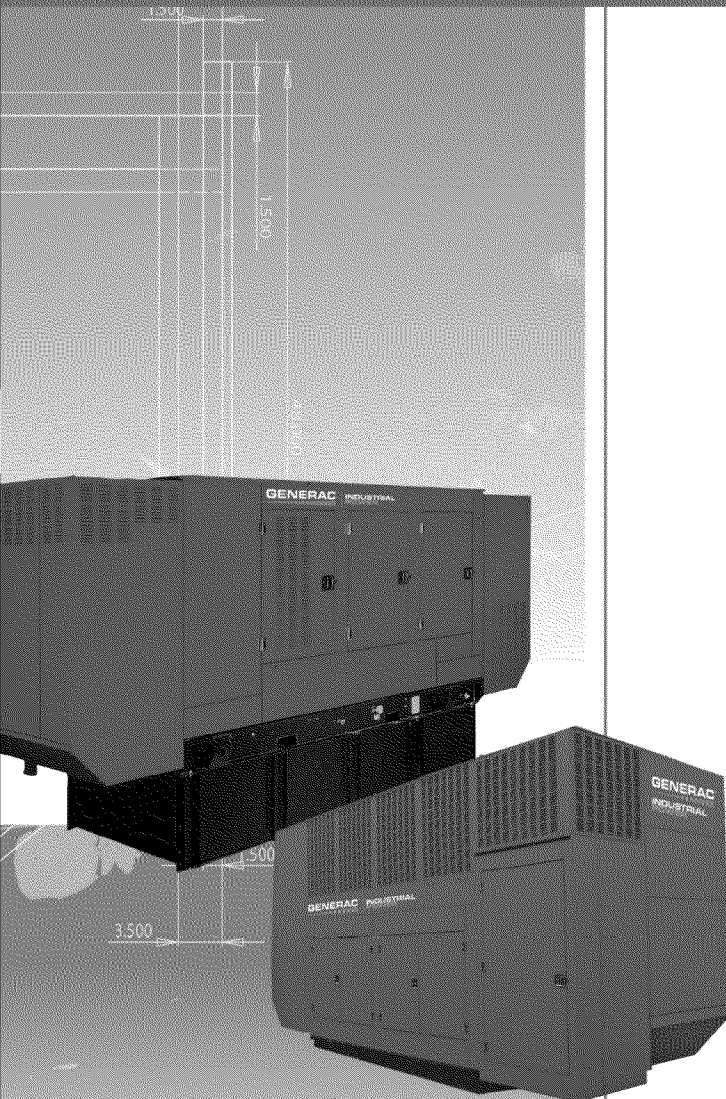
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**INDUSTRIAL
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Sandy Branch Solar

Texas

Generator System Operation & Maintenance

60kW Emergency Generator Set
Generac Serial #3004556017



Prepared By: Ben Serabian

bserabian@espowergen.com

Energy Systems

Phone: (760) 402-1677

Date: 02-17-2022





December 3, 2021

Dear Valued Customer,

We are pleased to inform you that as of December 3rd, 2021, Papé Material Handling, Inc. has signed an agreement to sell its power generation assets to West Coast Energy Systems, LLC ("Energy Systems"), a subsidiary of Generac Power Systems, Inc. ("Generac"). As part of this acquisition, the related power generation employees will become part of Energy System and will work to provide the high-quality products and services you expect.

Energy Systems is a leading distributor of power generator systems with a long-standing track record in the industry for exceptional service. Based in Stockton, California, the company serves the western United States. Energy Systems also has locations in Reno, NV and Auburn, WA to serve portions of Western Nevada, Oregon, and Northern California. An additional location in Phoenix, is currently being acquired to serve the State of Arizona.

Material handling customers of Papé Material Handling, Inc. will continue to be serviced by Papé Material Handling, Inc. for those products and services. However, as of today, for all power generation products, service, and support needs, please contact Energy Systems. Energy Systems is excited to become your partner and support your power generation needs with many of the same people and providing the equipment you have come to know and trust.

All outstanding power generation quotes, RFQs, or bids that have not been fulfilled by Papé Material Handling, will be supported by Energy Systems going forward. Any outstanding invoices from Papé, should be paid to Papé. For ongoing business, your contacts remain the same, all emails will automatically be forwarded to their new email addresses. Otherwise, you can utilize the emails listed below for the appropriate department or feel free to call 800-845-8519.

Parts: ESSouthparts@espowergen.com

Service: ESSouthservice@espowergen.com

Rental: ESSouthrentals@espowergen.com

Equipment Sales: ESSouthSales@espowergen.com

Accounts Receivable: AR@espowergen.com

We hope you are as excited as we are about this transition. We look forward to becoming a trusted partner to you and your business and promise to work every day to provide exceptional products, services, and support.

Sincerely,

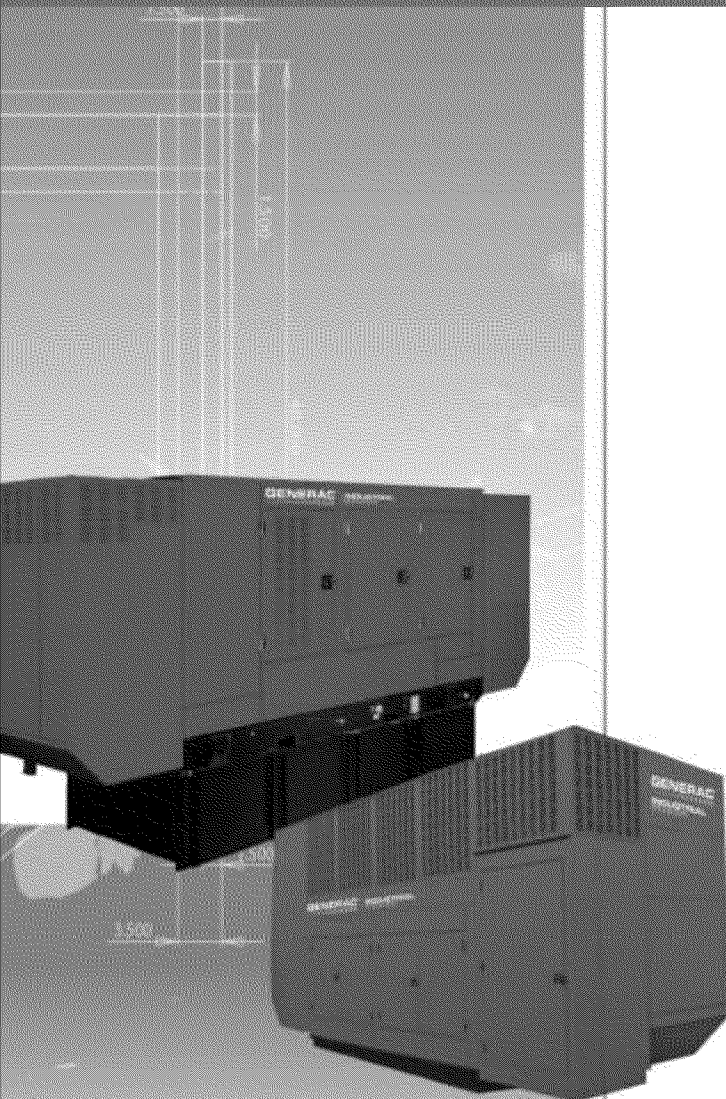
Tony Coleman
General Manager
West Coast Energy Systems

West Coast Energy Systems
7100 S. Longe Street, Suite 300
Stockton, CA 95206
209-870-1900
www.ESPowerGen.com

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INDUSTRIAL POWER

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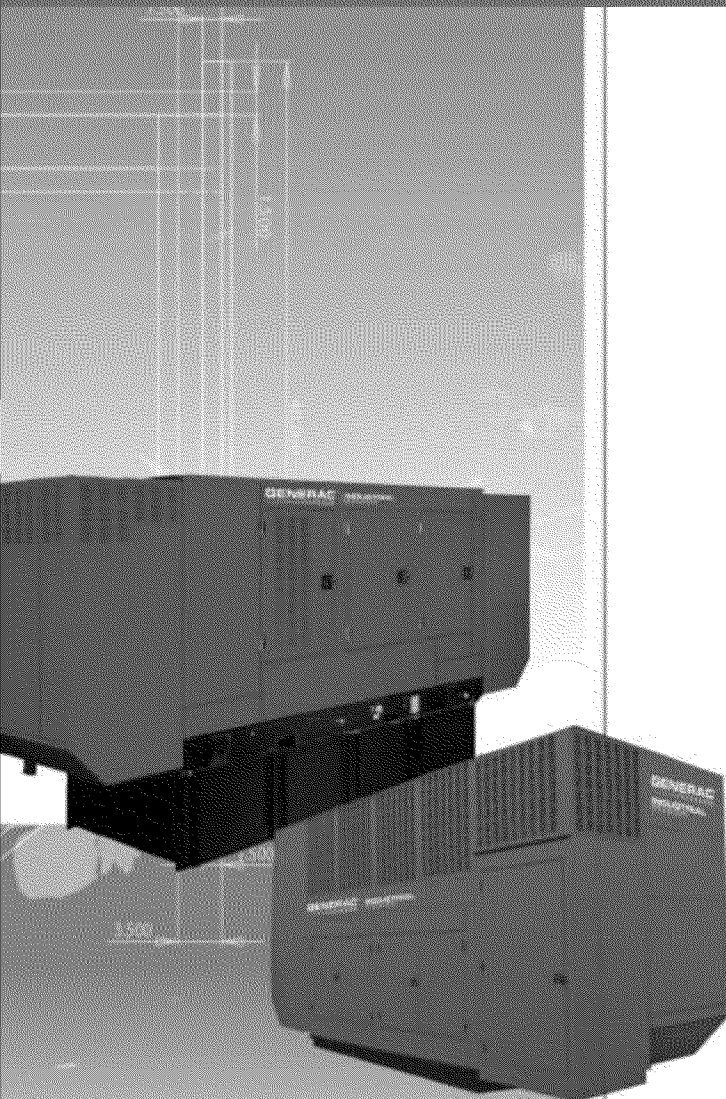
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- 3. Generator Assembly**
 - Prototype Test
 - General Specs
 - Alternator Data
 - Controls & Protection
 - Engine Accessories
 - Emissions Data
 - Paint & Finishes
 - Enclosure & Tank
 - Sound Data
 - Drawings
- 4. Factory & Field Test Reports**
- 5. Warranty Statement**
- 6. Operation Owners Manuals**
 - Generator Operation & Maintenance
 - Generator Control Panel



**POWER
SYSTEMS**

GENERAC®
**INDUSTRIAL
POWER**

Content Overview



PAPE

**POWER
SYSTEMS**

Ben Serabian / bserabian@papemh.com
 Phone (760) 402-1677 / FAX (760) 480-4333



**POWER
SYSTEMS**

BILL OF MATERIAL

Quantity 1 - Generac Commercial Gas Series generator set

- 60kW engine-driven standby generator:
- UL2200 listed
- digital control system including isochronous governor system and V/F voltage regulation
- selectable low-speed weekly exercise function
- 4.5 liter liquid-cooled naturally aspirated engine with an operating speed of 3600 RPM
- alternator configured for 120/240 vac single phase 3-wire 60 Hz output
- Propane vapor fuel system with customer connection fitting external to the genset base frame
- sound attenuating corrosion resistant aluminum enclosure with electrostatically-applied and baked powder coat finish
- Battery

Quantity 1 - 500 gallon propane vapor tank installed w/ regulators

NOTE: All trenching and concrete work by others

NOTE: ATS to be supplied by housing manufacturer per Swinerton direction. ATS must be a 2-wire start system. This can be included by Pape Power Systems upon request at additional cost.

Quantity 1 - Standard factory freight from Generac to jobsite (unloading by others)

Quantity 1 - Standard start-up & transfer test of above specified equipment (loadbank testing of generator can be performed upon request at an additional cost unless otherwise noted. Testing of any existing on-site equipment by others)

Quantity 1 – Training of basic operation & maintenance

Los Angeles County

2615 Pellissier Place
 City of Industry, CA
 91749
 Phone (562) 463-8000
 FAX (562) 463-8093

26007 Huntington Ln # 3
 Valencia, CA 91355
 Phone (661) 257-9634
 Fax (661) 257-7934

Inland Empire

8089 Cherry Ave.
 Fontana, CA 92336
 Phone (909) 428-3400
 FAX (909) 428-9620

San Diego County

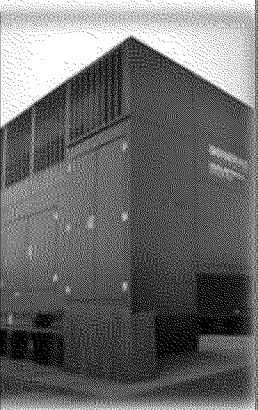
2870 Executive Ave.
 Escondido, CA 92029
 Phone (760) 402-1677
 FAX (760) 480-4333

Orange County

15591 Computer Lane
 Huntington Beach, CA
 92705
 Phone (714) 901-6290
 FAX (714) 901-6291

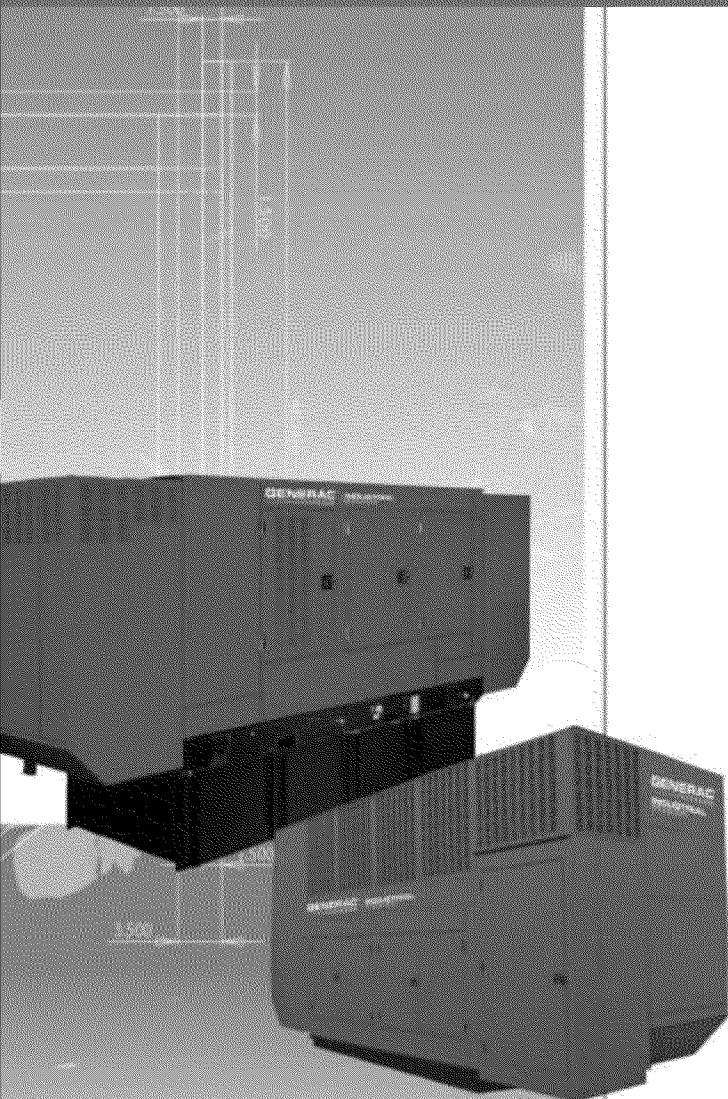
Hawaii

DBA
 Hawaiian Lift Truck, Inc.
 1724 Kahai Street
 Honolulu, HI 96819
 Phone (808) 847-0624
 FAX (808) 841-3706



GENERAC®
**INDUSTRIAL
POWER**

Product Certifications



PAPE

**POWER
SYSTEMS**

Certification of Quality

Generac Power Systems certifies that the products we manufacture have been built and tested in accordance with strict internal and external standards for quality. Our quality management system has been registered with the internationally recognized ISO 9001:2008 standard and our products comply with external standards that include, but are not limited to, CSA, NEMA, EGSA, ISO, and UL.

The Generac Quality Management System (GQMS) ensures the highest standards of quality at every level of production, from raw materials to the finished product. This includes receiving inspection, in-process checks, product and process audits, testing, final inspections, and shipping standards.

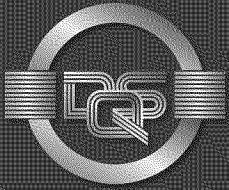
Tests of our products are performed in accordance with our internal procedures and controlled through the GQMS to ensure accuracy and effectiveness. The testing process and product designs comply with external standards which may include, but are not limited to: ISO 8528-5, ISO 3046, NFPA 99, NFPA 110, BS 5514, SAE J1349, and DIN 6271.

Generac Power Systems has over one million square feet of manufacturing space and over 2000 employees dedicated to designing and manufacturing power generation equipment in our multiple State of Wisconsin, USA factories. All of our installed and mobile generators are built with pride by our skilled American workforce to ensure our customers receive the quality that they expect from Generac.

We are committed to producing quality products for both our internal and external customers. We will continuously improve our processes and diligently measure all aspects of our business.

Daniel Waschow

Vice President of Quality
Generac Power Systems, Inc.
Waukesha, Wisconsin USA



CERTIFICATE



This is to certify that

Generac Power Systems, Inc.

S45 W29290 Hwy. 59
Waukesha, WI 53189
United States of America

with the organizational units/sites as listed in the annex

has implemented and maintains a **Quality Management System**.

Scope:

Design, Manufacturing, and Distribution of Generators and Power Products.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no.	10012920 QM15
Date of original certification	2013-12-09
Date of certification	2018-07-16
Valid until	2021-07-15



DQS Inc.

Brad McGuire
Managing Director



Annex to certificate
Registration No. 10012920 QM15

Generac Power Systems, Inc.

S45 W29290 Hwy. 59
 Waukesha, WI 53189
 United States of America

Location

Scope

10012920
Generac Power Systems, Inc.
S45 W29290 Hwy. 59
Waukesha, WI 53189
United States of America

Design, Manufacturing of Generator Components and
 Distribution of Service Parts.

10012922
Generac Power Systems, Inc.
211 Murphy Dr.
Eagle, WI 53119
United States of America

Manufacturing and Distribution of Generators.

10012923
Generac Power Systems, Inc.
757 N. Newcomb St.
Whitewater, WI 53190
United States of America

Manufacturing and Distribution of Generators and
 Manufacture of Generator components.

10012924
Generac Power Systems, Inc.
900 N. Parkway
Jefferson, WI 53549
United States of America

Manufacturing of Generators and Power Products.

10013528
Generac Power Systems
3815 Oregon St.
Oshkosh, WI 54902
United States of America

Manufacturing of Generators.

Remote Location

Scope

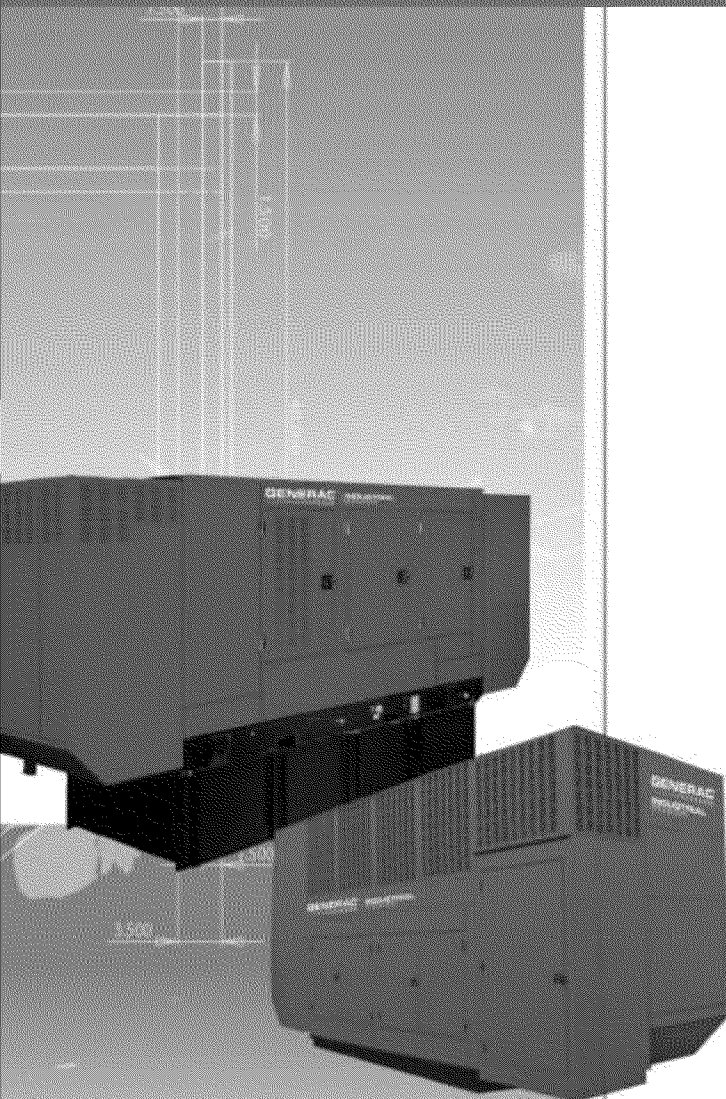
10014175
Generac Power Systems, Inc.
351 Collins Road
Jefferson, WI 53549
United States of America

The remote location at Jefferson, WI performs the
 following primary functions: Parts and Components
 Receiving, Inventory, and Distribution to Generac
 Locations.

This annex (edition: 2018-07-16) is only valid in connection
 with the above-mentioned certificate.

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POWER**

Generator Assembly



PAPE

**POWER
SYSTEMS**

GAS SUPPLY CHECK LIST

- **Gas Service Meter and Serving Utility**

- Available on site and reliable
- Rated for the combined loading of the facility and the generator (total BTU)
- Maintains generator minimum pressure requirements while under maximum loading

- **Step Down Pressure Regulators**

- Selected for the pressure and flow needs of the generator
- Direct acting type with good dynamic response (no significant time lags in regulation)
- Selected for minimum no-load to full load pressure droop ($< 1-2''$ w.c. desired)
- Located near the generator (allows the long piping runs to be at higher pressure)
- Located at least 10' away from generator connection (avoids regulator oscillations)
- Dedicated to a single generator (increases system reliability)

- **Piping**

- Sized large enough to minimize pressure drops to acceptable levels under full gas flow
- Minimize the number of elbows to avoid unwanted pressure drops
- Ensure entire gas supply system maintains acceptable generator pressure under full gas flow conditions
- Should be connected to generator with a flexible connection
- Should include a drip leg (sediment trap)

- **LP**

- LP tank's boil off rate (BTU capacity) needs to support rated BTU at minimum ambient
- LP liquid withdrawal systems should be considered: cold ambients, small tanks, large generators
- LP liquid systems require pressure rated piping and vaporization outside a building

- **Generac Design Resources**

- "Installation Guidelines for Stationary Industrial Generators" manual 046622 (detailed information)
- "Power Design Pro" software -- mechanical design tab (gas piping pressure drop calculator)

- **National Codes and Standards**

- NFPA 37 "Installation and use of Stationary Combustion Engines"
- NFPA 54 "National Fuel Gas Code"
- NFPA 58 "LP Gas Code"

Protector® Series

GENERAC®

PROTECTOR® SERIES Standby Generators Liquid-Cooled Gaseous Engine

Protector® Series

1 of 11

INCLUDES:

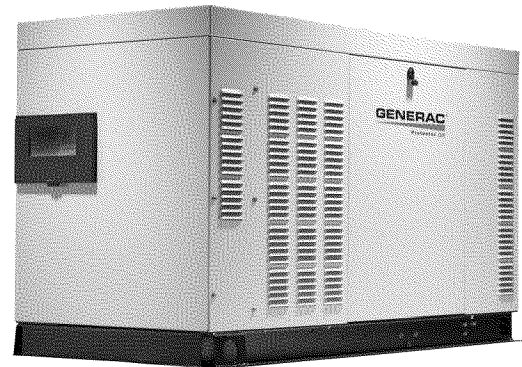
- Two-Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- Capability to be installed with 18" (457mm) of a building*
- True Power™ Electrical Technology
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- $\pm 1\%$ Voltage Regulation
- Natural Gas or LP Operation
- 5 Year Limited Warranty
- UL 2200 Listed

Note: 25-45 kW units are field convertible between natural gas or liquid propane. 60 kW units are built per fuel requirement and are not convertible.

*Only if located away from doors, windows, and fresh air intakes, and unless otherwise directed by local codes. Applicable for 25kW and 30kW units only.

Standby Power Rating

Model RG025 (Aluminum - Bisque) - 25 kW 60 Hz
Model RG030 (Aluminum - Bisque) - 30 kW 60 Hz
Model RG036 (Aluminum - Bisque) - 36 kW 60 Hz
Model RG045 (Aluminum - Bisque) - 45 kW 60 Hz
Model RG060 (Aluminum - Bisque) - 60 kW 60 Hz



QUIET-TEST™

*Assembled in the USA using domestic and foreign parts

Meets EPA Emission Regulations
25, 30 & 45 kW CA/MA emissions compliant
36 & 60 kW not for sale in CA / MA

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at $\pm 1\%$.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

GENERAC®



25 • 30 • 36 • 45 • 60 kW**application & engineering data****GENERATOR SPECIFICATIONS**

Type	Synchronous
Rotor Insulation Class	H
Stator Insulation Class	H
Telephone Interference Factor (TIF)	< 50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Sealed Ball
Coupling	Flexible Disc
Excitation System	Direct

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 15 Amp - 25 & 30 kW 12 Volt 30 Amp - 36, 45 & 60 kW
Static Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 26, 525CCA
System Voltage	12 Volts

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

ENGINE SPECIFICATIONS: 25 & 30 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	1.5
Bore (in/mm)	3.05/77.4
Stroke (in/mm)	3.13/79.5
Compression Ratio	11:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE SPECIFICATIONS: 36, 45 & 60 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.4
Bore (in/mm)	3.41/86.5
Stroke (in/mm)	3.94/100
Compression Ratio	9.5:1
Intake Air System	Naturally Aspirated (36 & 45 kW) or Turbocharged/Aftercooled (60 kW)
Lifter Type	Hydraulic

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankcase Capacity (qt/l)	4/3.8 - 25, 30, 36 & 45 kW 5.25/4.96 - 60 kW

ENGINE COOLING SYSTEM

Type	Closed
Water Pump	Belt driven
Fan Speed (rpm)	2484 - 25 & 30 kW 1865 - 36 & 45 kW 2100 - 60 kW
Fan Diameter (in/mm)	17.7/449.6 (25 & 30 kW) or 22/558.8 (36, 45 & 60 kW)
Fan Mode	Pusher (25 & 30 kW) or Puller (36, 45 & 60 kW)

FUEL SYSTEM

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	5-14" water column/9-26 mm HG
LP Fuel Pressure	11 - 14" Water Column
NG Fuel Pressure	5 - 14" Water Column

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

25 • 30 • 36 • 45 • 60 kW**GENERATOR OUTPUT VOLTAGE/kW - 60 Hz**

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
RG025	120/240 V, 1Ø, 1.0 pf	25	104	25	104	125
	120/208 V, 3Ø, 0.8 pf	25	87	25	87	100
	120/240 V, 3Ø, 0.8 pf	25	75	25	75	90
RG030	120/240 V, 1Ø, 1.0 pf	30	125	30	125	150
	120/208 V, 3Ø, 0.8 pf	30	104	30	104	125
	120/240 V, 3Ø, 0.8 pf	30	90	30	90	100
RG036	120/240 V, 1Ø, 1.0 pf	36	150	36	150	175
	120/208 V, 3Ø, 0.8 pf	36	125	36	125	150
	120/240 V, 3Ø, 0.8 pf	36	108	36	108	125
	277/480 V, 3Ø, 0.8 pf	36	54	36	54	60
RG045	120/240 V, 1Ø, 1.0 pf	45	188	45	188	200
	120/208 V, 3Ø, 0.8 pf	45	156	45	156	175
	120/240 V, 3Ø, 0.8 pf	45	135	45	135	150
	277/480 V, 3Ø, 0.8 pf	45	68	45	68	80
RG060	120/240 V, 1Ø, 1.0 pf	60	250	60	250	300
	120/208 V, 3Ø, 0.8 pf	60	208	60	208	250
	120/240 V, 3Ø, 0.8 pf	60	180	60	180	200
	277/480 V, 3Ø, 0.8 pf	60	90	60	90	100

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
RG025	120/240 V, 1Ø	65	170
	120/208 V, 3Ø	80	130
	120/240 V, 3Ø	69	112
RG030	120/240 V, 1Ø	75	180
	120/208 V, 3Ø	96	155
	120/240 V, 3Ø	83	134
RG036	120/240 V, 1Ø	105	240
	120/208 V, 3Ø	44	130
	120/240 V, 3Ø	38	115
	277/480 V, 3Ø	20	60
RG045	120/240 V, 1Ø	105	240
	120/208 V, 3Ø	44	130
	120/240 V, 3Ø	38	115
	277/480 V, 3Ø	20	60
RG060	120/240 V, 1Ø	140	320
	120/208 V, 3Ø	70	210
	120/240 V, 3Ø	61	182
	277/480 V, 3Ø	30	91

ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft³/hr)	(m³/hr)	(gal/hr)	(l/hr)	(ft³/hr)
RG025	Exercise cycle	60	1.7	0.7	2.5	24
	25% of rated load	220	6.3	2.9	9.1	88
	50% of rated load	297	8.4	3.3	12.3	119
	75% of rated load	362	10.3	4	15	145
	100% of rated load	430	12.2	4.7	17.8	172
RG030	Exercise cycle	60	1.7	0.7	2.5	24
	25% of rated load	240	6.8	2.6	10	96
	50% of rated load	320	9.1	3.5	13.3	128
	75% of rated load	400	11.4	4.4	16.6	160
	100% of rated load	492	14	5.4	20.4	197
RG036	Exercise cycle	65	1.8	0.7	2.6	25
	25% of rated load	210	6	2.3	8.6	83
	50% of rated load	380	10.8	4.2	15.7	151
	75% of rated load	545	15.5	5.9	22.4	216
	100% of rated load	730	20.7	8	30.1	290
RG045	Exercise cycle	65	1.8	0.7	2.6	25
	25% of rated load	210	6	2.3	8.6	83
	50% of rated load	380	10.8	4.2	15.7	151
	75% of rated load	545	15.5	5.9	22.4	216
	100% of rated load	730	20.7	8	30.1	290
RG060	Exercise cycle	123	3.5	1.34	5.1	49.3
	25% of rated load	267	7.6	2.7	10.5	101
	50% of rated load	483	13.7	5	19	183
	75% of rated load	672	19.1	7	26.5	255
	100% of rated load	862	24.5	9	33.9	327

Note: **Fuel pipe must be sized for full load.**

For Btu content, multiply ft³/hr x 2520 (LP) or ft³/hr x 1000 (NG)

For megajoule content, multiply m³/hr x 93.15 (LP) or m³/hr x 37.26 (NG)

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

25 • 30 • 36 • 45 • 60 kW**operating data****ENGINE COOLING**

	25 kW	30 kW	36 kW	45 kW	60 kW
Air flow (inlet air including alternator and combustion air in cfm/cmm)	2490/70.5	2490/70.5	2725/77.2	2725/77.2	3280/92.9
System coolant capacity (gal/liters)	2/7.6	2/7.6	2.5/9.5	2.5/9.5	2.5/9.5
Heat rejection to coolant (BTU per hr/MJ per hr)	112,000/118.2	135,000/142.4	193,000/203.6	193,000/203.6	270,000/284.9
Maximum operation air temperature on radiator (°C/°F)	60/140				
Maximum ambient temperature (°C/°F)	50/122				

COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	62/1.8	72/2	144/4.1	144/4.1	180/5.1
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SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	59	59	61	61	65
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	72	73	70	73	72

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (cfm/cmm)	203/5.7	237/6.7	300/8.5	420/11.9	494/14
Exhaust temperature at muffler outlet (°C/°F)	593/1100	610/1130	579/1075	593/1100	566/1050

ENGINE PARAMETERS

Rated Synchronous rpm	3600
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POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F
 Altitude Deration (25, 30, 36 & 45 kW)1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft
 Altitude Deration (60 kW)1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft

CONTROLLER FEATURES

Two-Line Plain Text LCD DisplaySimple user interface for ease of operation.
 Mode Switch: AutoAutomatic Start on Utility failure. 7 day exerciser
 Off.....Stops unit. Power is removed. Control and charger still operate.
 ManualStart with starter control, unit stays on. If utility fails, transfer to load takes place.
 Programmable start delay between 10-30 seconds10 sec Standard
 Engine Start Sequence.....Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
 Engine Warm-up.....5 sec
 Engine Cool-Down.....1 min
 Starter Lock-outStarter cannot re-engage until 5 sec after engine has stopped.
 Smart Battery Charger.....Standard
 Automatic Voltage Regulation with Over and Under Voltage Protection.....Standard
 Automatic Low Oil Pressure ShutdownStandard
 Overspeed ShutdownStandard, 72 Hz
 High Temperature Shutdown.....Standard
 Overcrank ProtectionStandard
 Safety Fused.....Standard
 Failure to Transfer ProtectionStandard
 Low Battery Protection.....Standard
 50 Event Run Log.....Standard
 Future Set Capable Exerciser.....Standard
 Incorrect Wiring Protection.....Standard
 Internal Fault ProtectionStandard
 Common External Fault Capability.....Standard
 Governor Failure ProtectionStandard

ALTERNATOR DATA SHEET

A0060044N21

General Characteristics

Voltages (V)	240	Number of Leads	4
Frequency (Hz)	60	Winding Type	1 Phase
Phases	1	Air Flow (CFM)	540
Speed (RPM)	1,800	Total Harmonic Distortion (%)	Contact Factory
Excitation System	PMG/Brushless	Largest Single Harmonic Value (%)	Contact Factory
Insulation Class	H	Telephone Interference Factor (TIF)	Contact Factory
Winding Pitch	2/3	Reference Part Number	OJ1377B01R, OJ1381B01R, OL4171J01R, OL4172J01R

Ratings at 1.0 pf Based on 40°C Ambient

Voltage (V)	80°C Rise		105°C Rise		120°C Rise		150°C Rise	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
120/240	49	49	54	54	60	60	65	65

Base Data at 240V, 60 kVA, 1,800 RPM, 60 Hz, 1Ø

Description	Value
Stator Resistance, Line to Line, (Ω)	0.0333
Rotor Resistance (Ω)	1.205
Exciter Stator Resistance - PMG/Brushless (Ω)	5.500/6.000
Exciter Rotor Resistance - PMG/Brushless (Ω)	0.5155/0.4565
Excitation Winding Resistance -PMG/Brushless (Ω)	1.7240/0.4885
Xd, Direct Axis Synchronous Reactance (p.u.)	2.14
X2, Negative Sequence Reactance (p.u.)	0.43
X0, Zero Sequence Reactance (p.u.)	0.05
X'd, Direct Axis Transient Reactance (p.u.)	0.15
X''d, Direct Axis Subtransient Reactance (p.u.)	0.14
Xq, Quadrature Axis Synchronous Reactance (p.u.)	0.96
T'd, Direct Axis Transient Short Circuit Time Constant (s)	0.048

Description	Value
T''d, Direct Axis Subtransient Short Circuit Time Constant (s)	0.008
T'do, Direct Axis Transient Open Circuit Time Constant (s)	0.987
Ta, Short Circuit Time Constant of Armature Winding (s)	0.055
Voltage Balance, L-N (%)	2.5
Sustained 3Ø Short Circuit Current (%) - PMG Only	300
X/R	21
Short Circuit Ratio	0.51
Heat Rejection (BTU/hr) - 100% Rated Load, 480V, 0.8pf, 120°C Temperature Rise	30,321

Reference: Mil-STD-705B
All Ratings are Nominal

ALTERNATOR DATA SHEET

A0060044N21

skVA

	10%	15%	20%	25%	30%	35%
240V @ 0.3PF	9	14	20	26	35	43
240V @ 0.6PF	11	17	23	31	40	49

Efficiencies

*Rated Power	240V @ 1.0 PF
20%	83.2
40%	88.1
60%	88.7
80%	88.2
100%	87.1

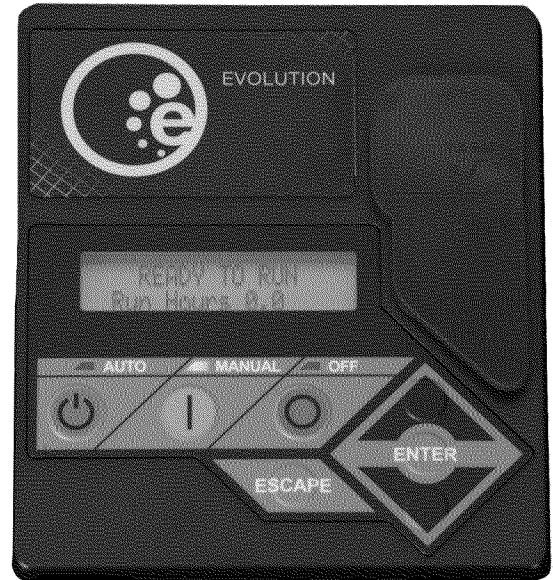
*Rated Power value is rating kW at 120°C Winding Temperature Rise and 1.0pf

GENERAC®

Evolution™ Controller

GENERAC® ACCESSORIES

- Compatible with Generac RTS , RTG, pre-wired, Smart, and GenReady switches
- Two line text, LCD multilingual display
- Real-time display of genset status for both owner and service contractor
- Run log, alarm logs, maintenance logs and maintenance schedule alerts, shows last 50 events in each log
- Allows for connection of a common alarm output
- Wireless remote monitor and Mobile Link™ compatible
- Illuminated membrane button keypad for easy menu scrolling and unit activation
- Miswiring connection protection
- UL/CUL listed
- Covered USB port for field firmware updates



DESCRIPTION

The next generation of intuitive controllers featuring a multilingual, two-line LCD text display with color coded backlit buttons. This controller allows even more system flexibility and provides a comprehensive display of alarms, maintenance alerts and real time system status.

STANDARD FEATURES

Controls

- LCD display
- Membrane button keypad
- Illuminated, color coded mode keypad

Processor

- 32 bit microcontroller
- Watertight input and output connections
- Software protected by built-in watchdog hardware

Display

- Backlit LCD
- 2 Line X 20 display
- 12 degree viewing angle
- Multilingual (English, Spanish, French, Portuguese)

Common Alarm Relay

- NO set of contacts rated 10A at 250VAC/5A at 30VDC
(Note: Contact rating is for resistive load only)

Smart Battery Charger

- Built into the Evolution Controller
- Smart charge system delivers voltage depending on battery needs and ambient conditions
- Battery Sentinel watches battery performance to indicate battery health

Generator Output Voltage Regulation

- Built into processor
- +/- 1% voltage regulation

Engine Speed Governor

- Built into processor
- Isochronous operation
- +/- 1 Hz steady state regulation

GENERAC®

Evolution™ Controller**Exercise Function**

- Automatic 7-day exercise
- Low-speed, no transfer (17 & 20kW only)
- User-selected time and day of week
- Adjustable at LCD display and keypad

Displayed Parameters

- System status
- Current Time & Date
- Exercise Time & Date
- Engine Run Hours
- Hours of Protection
- Engine RPM
- Output Voltage & Frequency
- Battery Voltage, Charge Status & Condition
- Utility Input Voltage
- Software Revision

Shutdown Alarms/Displays

- Low Oil Pressure
- High Engine Temperature
- Overcrank
- Overspeed
- RPM Sensor Loss
- Underspeed
- Underfrequency
- Wiring Error
- Undervoltage
- Overvoltage
- Internal Fault
- Firmware Error
- Stepper Overcurrent
- Fuse Problem

Warning Displays

- Low Battery
- Maintenance Periods
- Exercise Error
- Battery Problem
- Charger Warning
- Charger Missing AC
- Overload Cooldown
- USB Warning
- Download Failure

User-Adjustable Settings (Unprotected)

- Exercise Time, Day
- Current Time, Day, Month, Year
- Display Language English, Spanish, French, Portuguese

Dealer-Adjustable Setting or Displayed Parameter (Password protected)

- Startup Delay (2-1500 seconds)
- Run Hours
- Utility Voltage Loss Threshold
- Utility Voltage Return Threshold
- Calibrate Current & Voltage
- Maintenance Reset
- Input & Output Debug
- Firmware Upgrade

Maintenance Alerts

- Schedule Service A
- Schedule Service B
- Schedule A Serviced
- Schedule B Serviced
- Inspect Battery
- Battery Maintained
- Next Schedule Maintenance Date/Hours

Environmental

Temperature..... -30 to +50 deg C
 Humidity..... 0 to 95% non-condensing

Power Supply Requirements

Nominal Supply..... 12VDC
 Transient Protection..... Spikes clamped to 18V
 Power Usage..... 250mA maximum
 Fuse on Controller..... 7.5 Amp

Battery Charger Voltage/Freq (50-60) Parameters

Battery Charger..... 120-240VAC 50/60Hz

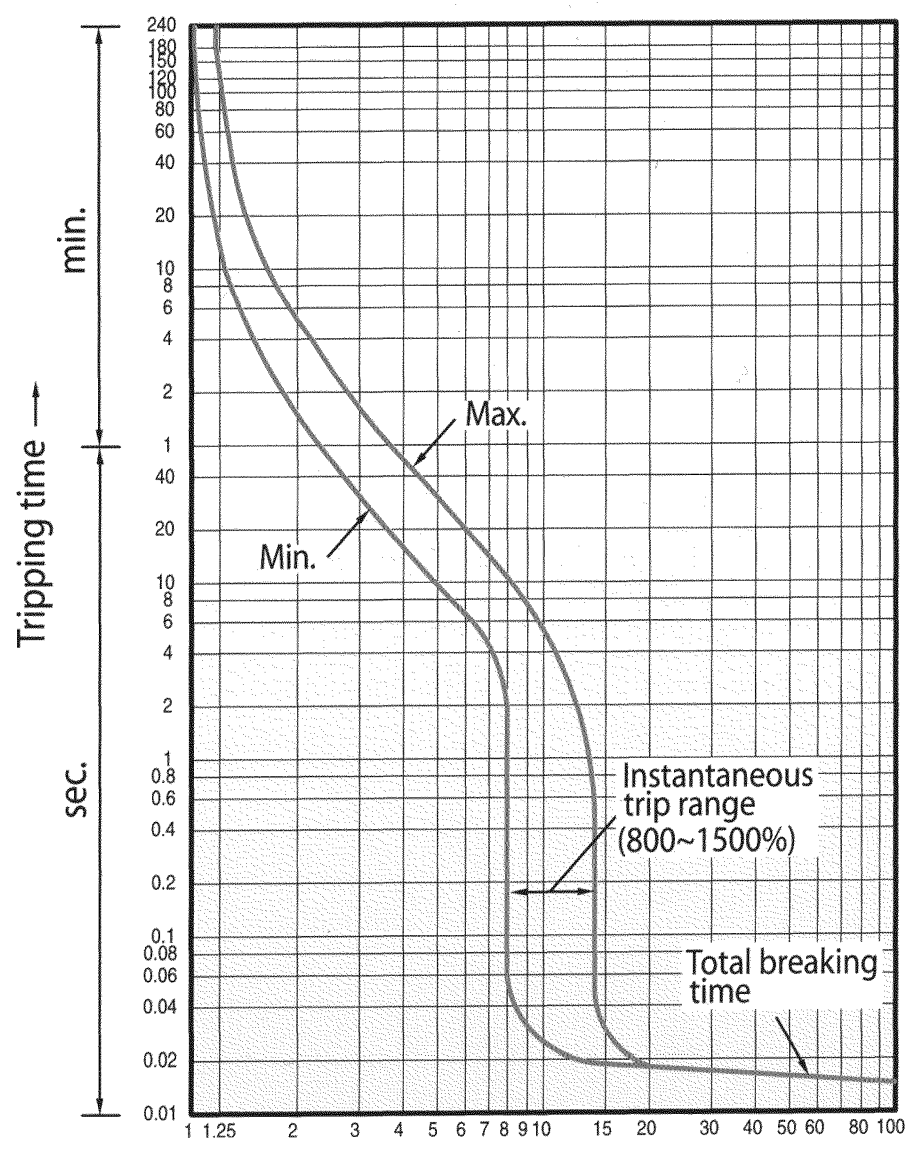
CIRCUIT BREAKER 40-600 AMP

GENERAC CIRCUIT BREAKER INFORMATION							
Circuit Breaker Amps	Generac C.B. Lug Part Number	Lug Description	Wire Size Per 310-16*	Frame	Interrupt Rating	Rating Temp.	Type
40	0F8451	Single Hole 0.656 Diameter # 6 to 300 MCM Cu/Al Single Conductor Only Mounting Bolt 70 in lbs. Wire Lug is 375 in lbs.	#8	200 Amp Frame	18,000	40 °C	Thermal Magnetic
50			#8				
60			#6				
70			#4				
80			#4				
90			#3				
100			#3				
125			#1				
150			1/0				
175			2/0				
200			3/0				
225			0A7822				
250	(2) - 250 MCM to (2) - 1/0	250MCM					
300	Mounting 70 in lb. Wire Lug is 375 in lb	350MCM					
350		500MCM					
400		600MCM					
450	0F9721 Standard Lug	(3) - 2/0 - 400 MCM Cu/Al 480 in lb. (2) - 500-750 mcm Cu/Al Optional Lug	700MCM or 2 - 4/0	600 Amp UL Rated Frame	35,000		
500	0F8452 Optional Lug - 450-600A		2 - 250 MCM				
600			2 - 350MCM or 3-3/0				

All circuit breakers are CUL 489 listed for 120, 208, 240, 480 Volts. Wire size is based on Amp Ratings at 75 °C from Table 310.16, 2008 NEC. All Lugs Are Rated 75 °C.

Derate by Temperature	
Temperature °C	Rated Trip Current %
20	110
30	105
40	100
50	95

CIRCUIT BREAKER 40-600 AMP





POWER DERATION RATES

POWER DERATION 60Hz SPARK-IGNITED PRODUCT

SPARK-IGNITED ENGINE DERATE INFORMATION

Nominal Rating (kW)	Product Line	kW Propane	kW Natural gas 30	kW Natural Gas 10	Engine Disp (L)	Baseline	
						Temp °F	Altitude Ft.
22	Protector	22	22	22	2.4	77	600
25	Protector	25	25	25	1.6	77	600
25	Industrial	25	25	25	2.4	104	600
27	Protector	27	25	25	2.4	77	600
30	Protector	30	27	27	1.6	77	600
35	Industrial	35	35	35	5.4	110	3500
36	Protector	36	35	35	2.4	77	3000
40	Industrial	40	40	40	5.4	110	3500
45	Protector	45	45	45	2.4	77	600
45	Industrial	45	45	45	5.4	104	1600
48	Protector	48	48	48	5.4	77	600
50	Industrial	50	50	50	5.4	104	600
50	Industrial	50	50	50	6.8	110	3500
60	Protector	60	60	60	2.4	77	3000
60	Industrial	60	60	60	6.8	104	3500
70	Protector	70	67	64	6.8	77	600
70	Industrial	70	67	64	6.8	104	600
80	Protector	80	80	77	4.6	77	600
80	Industrial	80	80	80	6.8	104	3500
80	Industrial	80	80	80	8.0	104	3500
80 *	Industrial	80 DF	80 DF	80 DF	8.0	95	3500
80	Industrial	80	80	80	9.0	104	3500
80 *	Industrial	80 DF	80 DF	80 DF	9.0	95	3500
100	Industrial	100	94	89	6.8	77	600
100	Industrial	100	100	100	9.0	77	600
100 *	Industrial	100 DF	100 DF	100 DF	9.0	77	600
130	Industrial	130	122	117	6.8	77	600
130	Industrial	130	130	130	9.0	77	600
130	Industrial	N/A	130	130	12.9	110	8000
150	Industrial	150	142	136	6.8	77	600
150	Industrial	140	150	144	9.0	77	600
150	Industrial	N/A	150	150	12.9	110	7500
175	Industrial	N/A	175	175	12.9	110	6000
200	Industrial	N/A	200	200	12.9	110	3500
230	Industrial	N/A	230	N/A	12.9	110	6000
250	Industrial	N/A	250	N/A	12.9	110	3500
275	Industrial	N/A	275	N/A	12.9	110	6000
300	Industrial	N/A	300	N/A	12.9	86	4000
350	Industrial	N/A	350	N/A	21.9	110	3500
400	Industrial	N/A	400	N/A	21.9	110	3500

Derates start at the above baseline altitudes and temperatures

3.0% per 1000 feet for altitude and 1.65% per 10° F for temperature (200kW & below, except for *)

2.1% per 1000 feet for altitude and 5.0% per 5° F for temperature (140kW LP 9.0L, 230kW, 250kW, 350kW, 400kW and *)

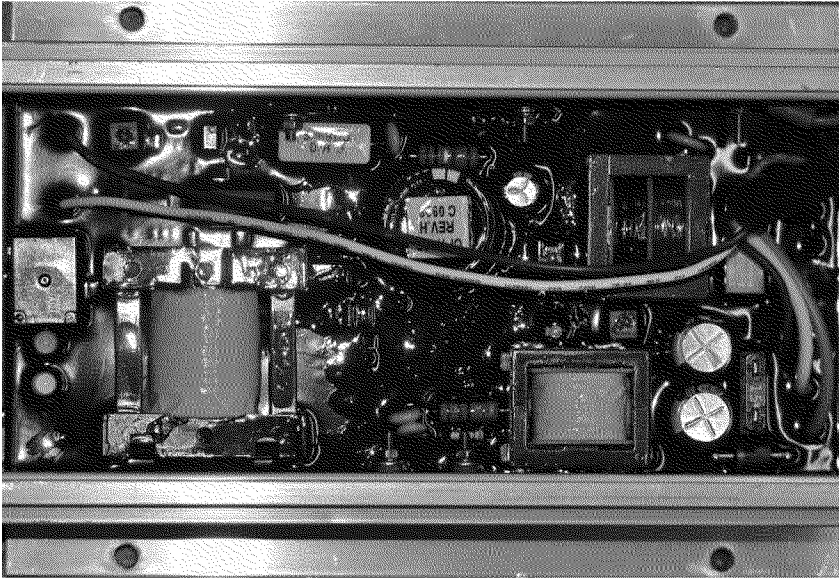
2.1% per 1000 feet for altitude and 2.0% per 5° F for temperature (275 & 300kW)

2.1% per 1000 feet for altitude and 6.7% per 5° F for temperature (150kW Natural Gas 9.0L)

* Dual Fuel (DF): 2.1% per 1000 feet for altitude and 5.0% per 5° F for temperature

BATTERY CHARGER

2.5 amp and 10 amp



Battery charger shown from inside of control panel enclosure.
Connections are made via an attached harness.

The Generac 2.5 amp 12 volt and 10 amp 12/24 volt battery chargers are designed to work with Generac Industrial Controls to provide the ultimate in automatic battery voltage maintenance.

The 2.5 amp charger is self-regulating and produces instantaneous output current adjustments to keep the battery charged to an optimum level. Battery voltage is read on the control panel digital display.

The 10 amp charger has automatic float and equalize control. It precisely monitors the battery's voltage and automatically activates the correct charging mode. The charge rate is limited and controlled to efficiently and safely maintain ideal battery levels under varying conditions.

The equalize system uses a control circuit to limit charging current to 10 amps. When battery voltage drops below a preset level, charging current increases to 5 amps and then to the 10 amp charge rate if needed. When the battery reaches maximum charge, the charger switches to float mode to supply just enough current to maintain the battery at or above 13/26 volts. Battery voltage and charging current are read at the control panel digital display.

Specifications	2.5A	10A
Nominal Input	120 VAC	120 VAC
Operating AC Line Voltage Range	108 to 132 VAC	108 to 132 VAC
Input AC Line Frequency	50/60 Hz	50/60 Hz
Battery Fuse	N/A	15 A
Nominal Charge Rate	2.5 A	10 A
Equalize Voltage	N/A	13.8/27.6 V
Float Voltage	13.4 V	13.0/26.0 V
Current @ Equalize to Float Transition	N/A	5 A
Battery Under-voltage shutdown	N/A	11/22 V
LED Indicators	No	Yes
AC Line Voltage	N/A	Green LED
Battery Connected and Charging	N/A	Yellow LED
Battery Current Drain	30 mA	30 mA
AC Line Connection	Connector Plug	Connector Plug
Battery Connection	Connector Plug	Connector Plug
Control Connection		AC Power Fail Form Relay Form C 2 A Rating
CUL Recognized	Yes	Yes
NFPA 110 Compliant	No	Yes
AGM Compatible	No	Yes
UL1236	No	Yes
CSA 22.2 No. 107	No	Yes



INDUSTRIAL GENSET - BATTERY INDEX

• Warranty by Exide Corp. • Exide e-mail: tbгна@exide.com • 800-782-7848 National Hot line

INDUSTRIAL SPARK-IGNITED GENSETS - AVAILABLE BATTERIES

INDUSTRIAL SPARK-IGNITED GENSETS - AVAILABLE BATTERIES			GENERAC PART #					
Engine	System Voltage	Battery Quantity	058208 (Group 24F)	077483 (Group 26)	058665 (Group 27F)	061119 (Group 31)	061104 (Group 8D)	BT0015A02 (Group 8D)
G2.4	12	1		X				
G4.5	12	1			X	X		
G9.0	12	1			X	X		
G14.2	24	2					X	
G21.9	24	2					X	
G25.8	24	2					X	
G33.9	24	4					X	
G49.0	24	4					X	X

INDUSTRIAL DIESEL GENSETS - AVAILABLE BATTERIES

Engine	System Voltage	Battery Quantity	GENERAC PART #			
			058665 (Group 27F)	061119 (Group 31)	061104/BT0015A00 (Group 8D)	BT0015A02 (Group 8D)
D2.2 Perkins	12	1	X	X		
D2.4 Generac	12	1	X	X		
D3.4 Generac	12	1	X	X		
D4.5 FPT	12	1		X		
D6.7 FPT 100, 130kW	12	1 or 2 [†]		X		
D6.7 FPT 150, 175kW	12	2 [†]		X		
D8.7 FPT	24	2		X		
D10.3 FPT	24	2		X	X	
D12.9 FPT	24	2		X	X	
D12.5 Perkins	24	2			X	
D15.2 Perkins	24	2			X	
D16.0 Volvo	24	2		X	X	
D18.1 Perkins	24	2			X	
D33.9 MHI	24	2			X	X
D37.1 MHI	24	4			X	X
D49.0 MHI	24	4			X	X
D65.4 MHI	24	4			X	X

Part Number	Group Number*	Nominal CCA @ 0° F	DIMENSIONS (in) NOMINAL		
			L	W	H
058208	24F	525	6.75	10.63	9.00
077483	26	525	6.75	8.25	7.75
058665	27F	700	6.75	12.50	9.00
061119	31	925	6.75	13.00	9.40
061104/ BT0015A00	8D	1,155	11.00	20.80	10.00
BT0015A02	8D	1,300	11.00	20.80	10.00

All batteries are 12V, 6 cell construction, lead calcium type.
For 24V systems, batteries are wired in series.

X Battery available with electrolyte and installed in genset.

[†] Single or dual-parallel battery options are available on 100 and 130kW. Single-battery option not available on 150 and 175kW.

* BCI Group Size reference.

STATEMENT OF EXHAUST EMISSIONS

2021 Spark-Ignited Generators

QT and RG Series - NON-SCAQMD Certified, Stationary Emergency

	Model	Engine (L)	EPA Engine Family	Fuel	Catalyst Required	EPA Certification #	Grams/bhp-hr.				Rated RPM	BHP	Fuel Flow (lb/hr)
							THC	NMHC	NOx	CO			
Small Spark Ignited Engine (SSIE) Small Off-Road Engines (SORE)	RG022	2.4	MGNXB02.42NN	NG	No	MGNXB02.42NN-012	2.34	2.29	2.15	101.28	1,800	32	14.27
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	1.54	N/A	3.76	95.37	1,800	36	15.31
	RG025	1.5	MGNXB01.52NN	NG		MGNXB01.52NN-008	2.87	0.12	1.57	133.43	3,600	47	20.36
			MGNXB01.52NL	LPV		MGNXB01.52NL-009	1.99	N/A	1.62	134.47	3,600	49	19.60
	RG027	2.4	MGNXB02.42NN	NG		MGNXB02.42NN-012	1.60	1.56	1.77	70.06	1,800	38	16.52
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	1.43	N/A	4.38	86.18	1,800	43	17.59
	RG030	1.5	MGNXB01.52NN	NG		MGNXB01.52NN-008	2.87	0.12	1.57	133.43	3,600	47	20.36
			MGNXB01.52NL	LPV		MGNXB01.52NL-009	1.99	N/A	1.62	134.47	3,600	49	19.60
	RG032	2.4	MGNXB02.42NN	NG		MGNXB02.42NN-012	1.03	1.01	3.86	27.39	1,800	63	26.11
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	0.75	N/A	3.02	69.69	1,800	51	19.64
	RG036	2.4	MGNXB02.42NN	NG		MGNXB02.42NN-012	1.03	1.01	3.86	27.39	1,800	63	26.11
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	0.75	N/A	3.02	69.69	1,800	51	19.64
	RG038	2.4	MGNXB02.42NN	NG		MGNXB02.42NN-012	1.03	1.01	3.86	27.39	1,800	63	26.11
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	0.75	N/A	3.02	69.69	1,800	51	19.64
	RG045	2.4	MGNXB02.42NN	NG		MGNXB02.42NN-012	1.56	1.53	3.94	75.70	3,600	81	34.87
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	0.84	N/A	7.08	40.59	3,600	92	36.52
	RG048	4.5	MGNXB04.52NN	NG		MGNXB04.52NN-014	0.64	0.10	4.48	35.10	1,800	75	25.89
			MGNXB04.52NL	LPV		MGNXB04.52NL-016	0.84	N/A	5.27	64.25	1,800	76	29.51
RG060, 80	4.5	4.5	MGNXB04.52NN	NG		MGNXB04.52NN-014	0.49	0.12	3.36	42.88	1,800	129	45.22
			MGNXB04.52NL	LPV		MGNXB04.52NL-016	0.47	N/A	3.27	59.64	1,800	129	48.96
RG060	2.4	2.4	MGNXB02.42NN	NG		MGNXB02.42NN-012	0.83	0.81	3.21	69.11	3,600	107	43.84
			MGNXB02.42NL	LPV		MGNXB02.42NL-013	0.92	N/A	2.17	138.95	3,600	107	47.24

NG: Natural Gas
LPV: Liquid Propane Vapor

N/A: Non Applicable
Refer to Page 2 for Definitions and Advisory Notes

STATEMENT OF EXHAUST EMISSIONS

2021 Spark-Ignited Generators

QT and RG Series - NON-SCAQMD Certified, Stationary Emergency

2020 EPA SPARK-IGNITED EXHAUST EMISSIONS DATA

Effective since 2009, the EPA has implemented exhaust emissions regulations on stationary spark-ignited (gaseous) engine generators for emergency applications. All Generac spark-ignited gensets, including SG, MG, QTA, QT and RG series gensets that are built with engines manufactured in 2009 and later meet the requirements of 40CFR part 60 subpart JJJJ and are EPA certified. These generator sets are labeled as EPA Certified with decals affixed to the engines' valve covers.

The attached documents summarize the general information relevant to EPA certification on these generator sets. This information can be used for submittal data and for permitting purposes, if required. These documents include the following information:

EPA Engine Family

The EPA Engine Family is assigned by the Manufacturer under EPA guidelines for certification purposes and appears on the EPA certificate.

Catalyst Required

Indicates whether a three-way catalyst (TWC) and Air/Fuel Ratio control system are required on the generator set to meet EPA certification requirements. Generally, units rated 80kW and smaller do not require a TWC to meet EPA certification requirements. Please note that some units that do not require a TWC to meet EPA requirements do need one if the California SCAQMD option is selected. Please see "California SCAQMD" below for additional information on this option.

Combination Catalyst or Separate Catalyst

SG and MG series generator sets typically utilize a single combination catalyst/silencer as part of meeting EPA certification requirements. Many QT and RG series generator sets use the same engines as SG series units, but have different exhaust configurations that require the use of conventional silencers with additional separate catalysts installed.

EPA Certificate Number

Upon certification by the EPA, a Certificate Number is assigned by the EPA.

Emissions Actuals - Grams/bhp-hr

Actual exhaust emission data for Total Hydrocarbons (THC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO) that were submitted to EPA and are official data of record for certification. This data can be used for permitting if necessary. Values are expressed in grams per brake horsepower-hour; to convert to grams/kW-hr, multiply by 1.341. Please see advisory notes below for further information.

California Units, SCAQMD CEP Number

A separate low-emissions option is available on many Generac gaseous-fueled generator sets to comply with the more stringent South Coast Air Quality Management District requirements that are recognized in certain areas in California. Gensets that include this option are also EPA Certified.

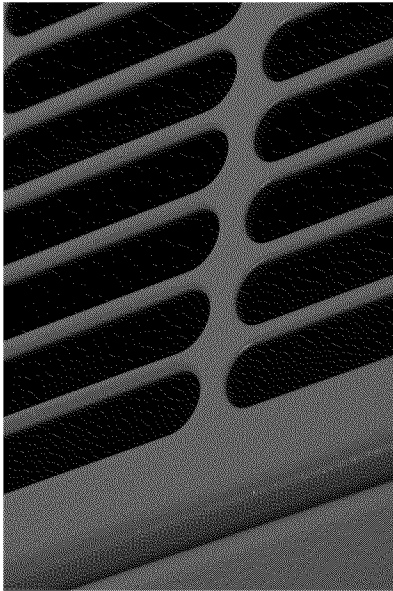
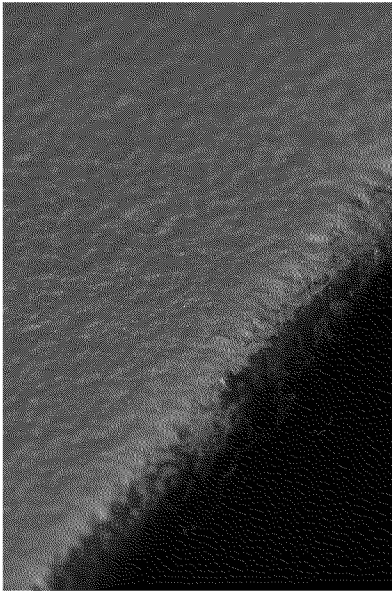
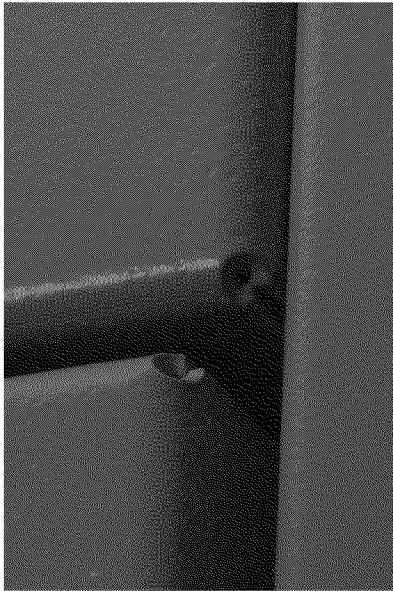
General Advisory Note to Dealers

The information provided here is proprietary to Generac and its' authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc..

Advisory Notes on Emissions Actuals

- The stated values are actual exhaust emission test measurements obtained from units representative of the generator types and engines described.
- Values are official data of record as submitted to the EPA and SCAQMD for certification purposes. Testing was conducted in accordance with prevailing EPA protocols, which are typically accepted by SCAQMD and other regional authorities.
- No emission values provided are to be construed as guarantees of emissions levels for any given Generac generator unit.
- Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emissions performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and must be consulted by the permit applicant/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems, Inc. cannot be construed as a guarantee of installability of the generator set.
- The emission values provided are the result of multi-mode, weighted scale testing in accordance with EPA testing regulations, and may not be representative of any specific load point.
- The emission values provided are not to be construed as emission limits.

RhinoCoat™



Generac's RhinoCoat™ finish system provides superior durability as a standard for all Generac Industrial enclosures, tanks and frames.*

Testing Standards

Generac's RhinoCoat™ finished surfaces are subjected to numerous tests. These include:

- | | |
|-------------------------------------|-----------------------------------|
| • ASTM D - 1186 - 87..... | 2.5+ MIL Int Thickness |
| • ASTM D - 3363 - 92a..... | Adequate Material Hardness |
| • ASTM D 522 - B..... | Resistant to Cracking |
| • ASTM D 3359 - B..... | Exceptional Adhesion |
| • ASTM B117 D 1654..... | Resistant to Salt Water Corrosion |
| • ASTM D1735 D 1654..... | Resistant to Humidity |
| • ASTM 2794 93 (2004)..... | Exceptional Impact Resistance |
| • SAEJ1690 - UV Specifications..... | UV Protection |

In addition to the testing standards above, Generac adds the following test requirements more specific to generator applications:

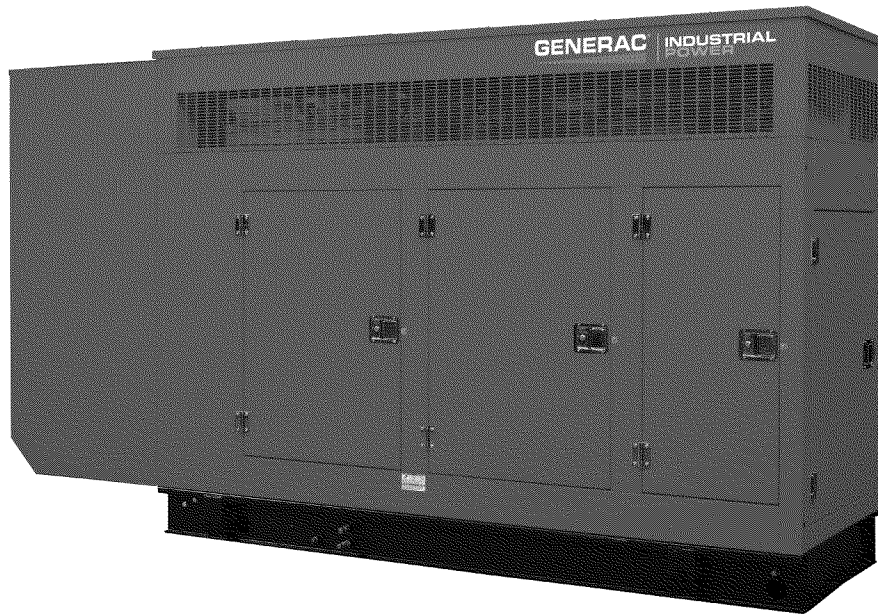
- Resistant to Typical Oils
- Resistant to Typical Fuels
- Resistant to Typical Antifreeze
- Resistant to Distilled Water

Primary Codes and Standards



*RhinoCoat™ powder coat paint is durable and corrosion resistant however it is not a rust preventative. Generac pretreats all powder coated parts to assist with resistance to corrosion.

GENERATOR ENCLOSURES



DESCRIPTION

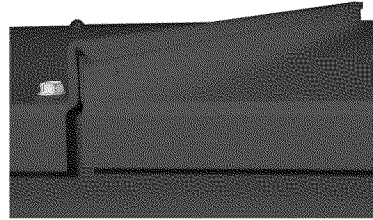
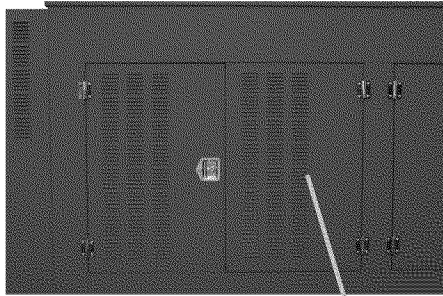
GENERAC POWER SYSTEMS' generator enclosures provide year-round weather protection for your power equipment. Engineered with functionality and value in mind, the enclosure design benefits are unique in that the enclosures utilize dimensionally matched components for either a weather protective configuration or a sound attenuated/acoustic configuration. With common components used between design, modification and on-site upgrades can be accomplished with ease.

The enclosure design offers several benefits over the "standard enclosures" of other manufacturers. Generac's enclosures have been created with the goal of maximizing the customer's product performance satisfaction while maintaining the functionality of reducing exterior noise levels and discouraging product tampering.

Although others may require a "premium" for a self-enclosed exhaust system, rugged steel panel construction or protective polyethylene washers under all exterior panel fasteners, Generac includes these and several other features on every enclosure configuration. Be sure to compare. Generac Enclosures offer additional design enhancement extras that other "standard enclosures" do not.

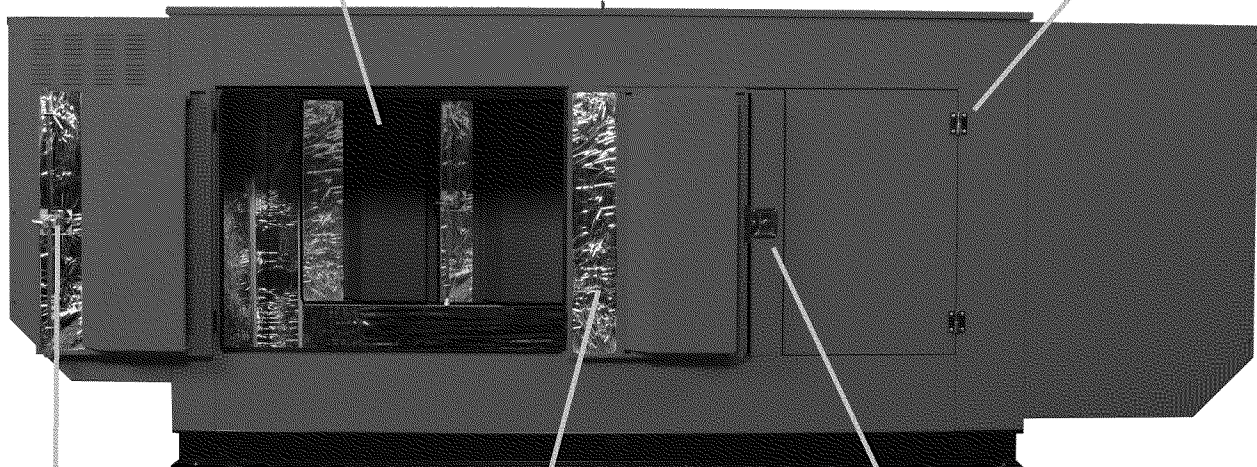
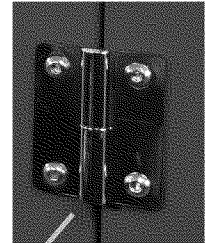
GENERATOR ENCLOSURES

Post-Free Twin Doors
Provide Large, Unobstructed
Service Access

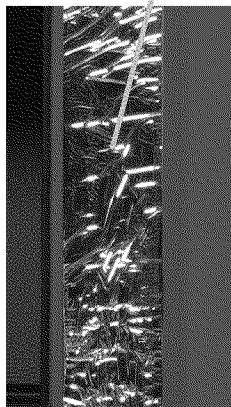
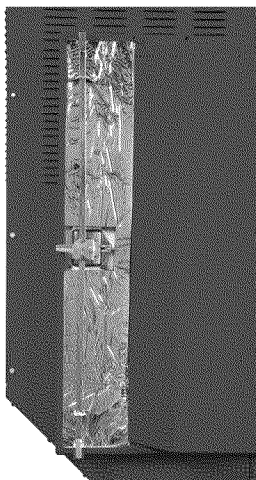


**Gasket-Free, Interconnected Roof
Panel Joint**
Drip-Free, Maintenance-Free

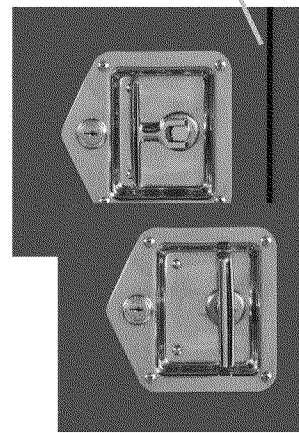
**Heavy Gauge, Stainless
Steel, Partial Pin Hinges with
Nylon Spacers**
Durable, Corrosion-Free,
Removable Doors



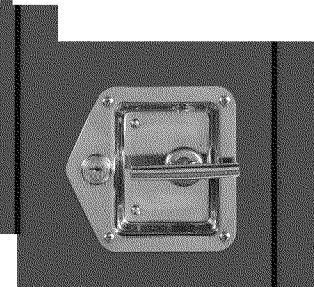
**Two-Point Door Latch
System**
Ensures Proper Seal
Preventing Water Ingress
and Sound Egress



**Dense, Closed-Cell Foam Insulation with
Reflective Silver Mylar Layer**
Improved Sound Attenuation Without Damaging
Effects From Radiant Heat Exposure



**Lockable Turn and Tuck
Stainless Steel Latch
Handle**
Corrosion-Free, Non-
Protruding and Secure



GENERATOR ENCLOSURES

FEATURES:

Dimensional matching of acoustic and non-acoustic enclosure designs

Standardized enclosure components *

Enclosure mounted directly to unit baseframe

Electrostatically painted panels

12 or 14 gauge steel based on kW rating

Aluminum Enclosure optional

Stainless steel door latch and hinge hardware

Stainless steel door latch strike plate

Door hinges utilize slip-pin design

Polyethylene gasketing under door hinges

Keyed door latches

Large removable access doors

Relocation of access doors

Redesigned door gasketing

Weather resistant aluminum roof design with drip ledge

Cabled and gasketed radiator access cover

Acoustic roof panels manufactured with mechanical retention pins

Polyethylene washers under all panel fasteners

Internally fastened enclosure panels (where possible)

Additional roof panel stiffener

Self-enclosed exhaust system

Discharge air duct has been designed with minimal fasteners

Stainless steel exhaust band clamps

Drain holes within air ducts

Rodent-proof, tamper proof enclosure design

Redesigned baseframe lifting lugs

Up to 200 MPH wind kit options (Contact Factory for Availability)

BENEFITS:

Reduces variation in fuel tank pricing, inventory; removes need to change out fuel tank or retrofit

Ease of retrofit or upgrade to acoustic system; reduced parts inventory, costs

Simplified delivery and installation with enclosure and unit in single component design

Maximum protection from weather elements

Maximum sound attenuation, protection and product life

Prevents corrosion in coastal regions

Provides extended component life; maximum protection against rusting

Maximum protection against enclosure paint damage from door latch pin

Provides quick door removal for full-unit access

Additional protection for enclosure paint finish

Protection for equipment and personnel

Ease of maintenance

Provides improved access to MLCB on all units

Improved sealing quality from sound and weather elements

Provides optimum moisture/rain runoff from unit

Provides improved radiator access and additional protection from weather elements

Increased acoustic foam retention within unit

Additional paint finish protection from stainless steel fastener

Provides streamlined unit appearance

Added overall compartment rigidity and acoustic foam panel retention

Provides safe unit operation; no enclosure hot spots; streamlined unit appearance

Ease of removal and access to exhaust system

Provides extended component life; ensures proper exhaust seal

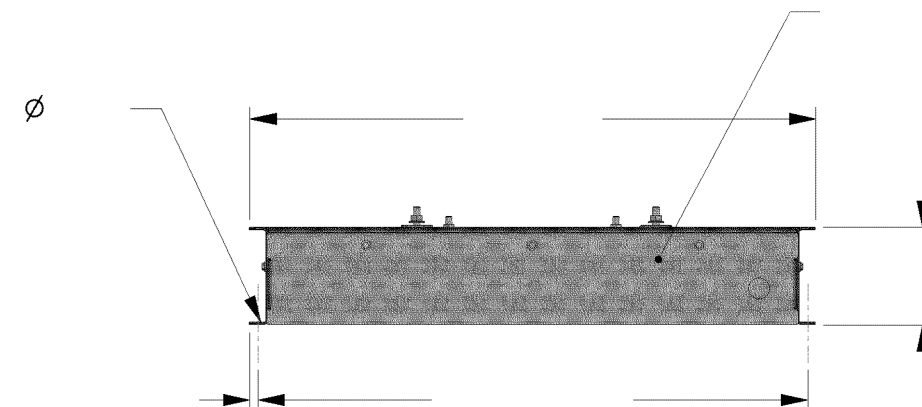
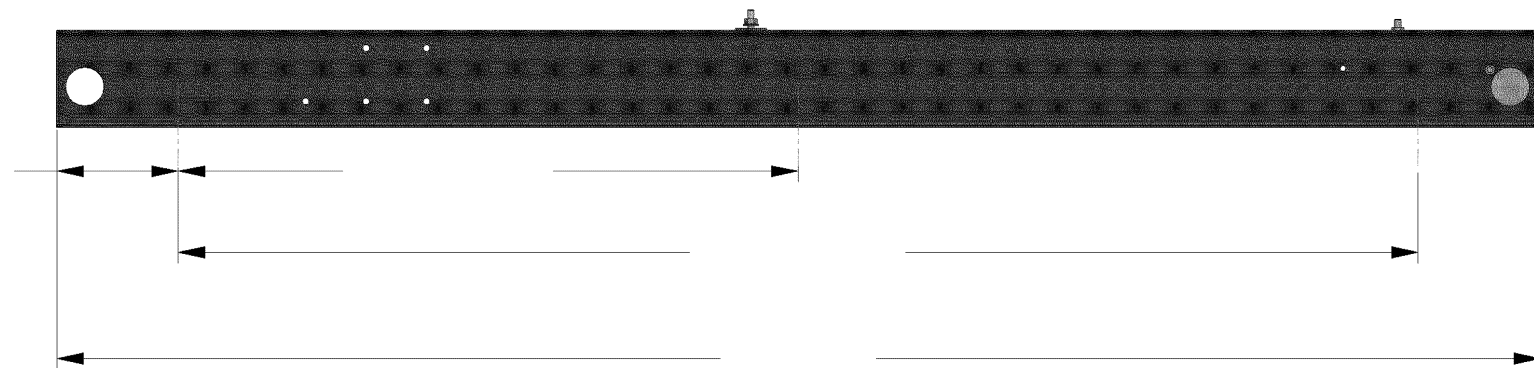
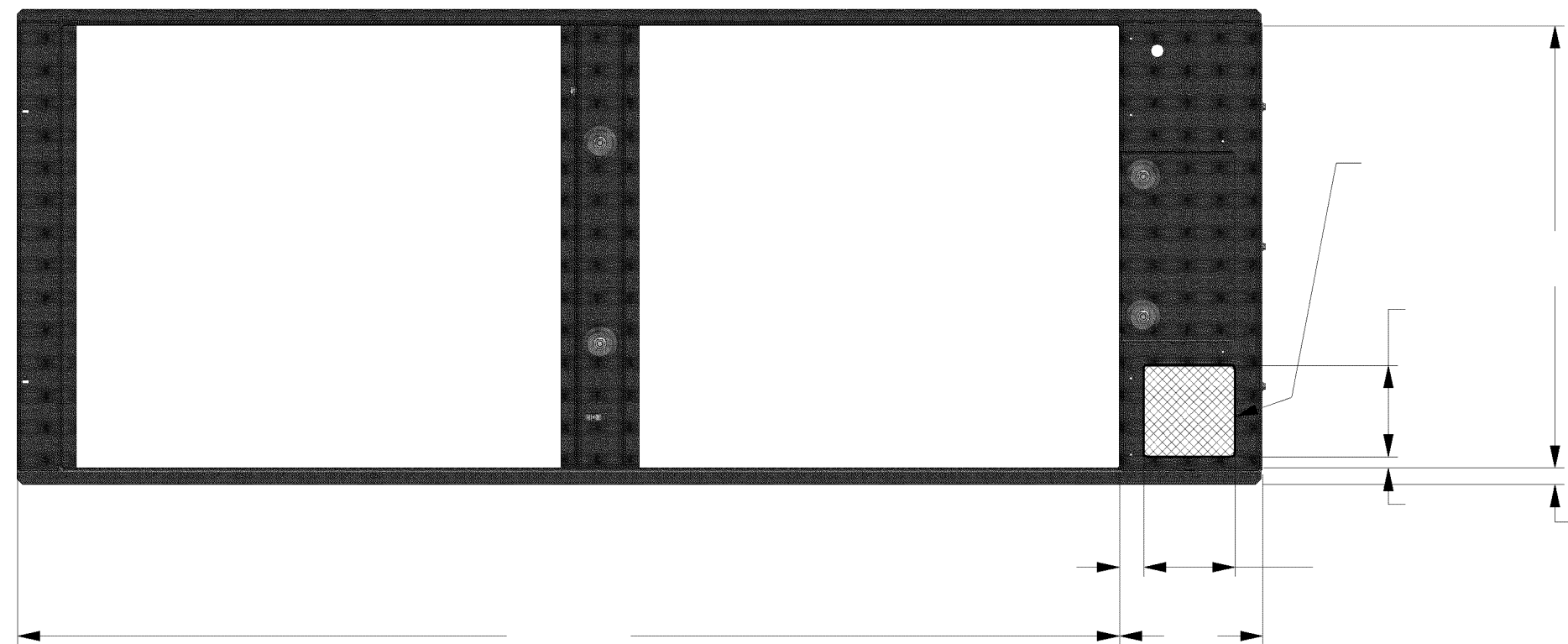
Enables maximum water run-off

Safety and security for personnel and equipment

Ease of unit relocation; prevents compartment damage from lifting straps

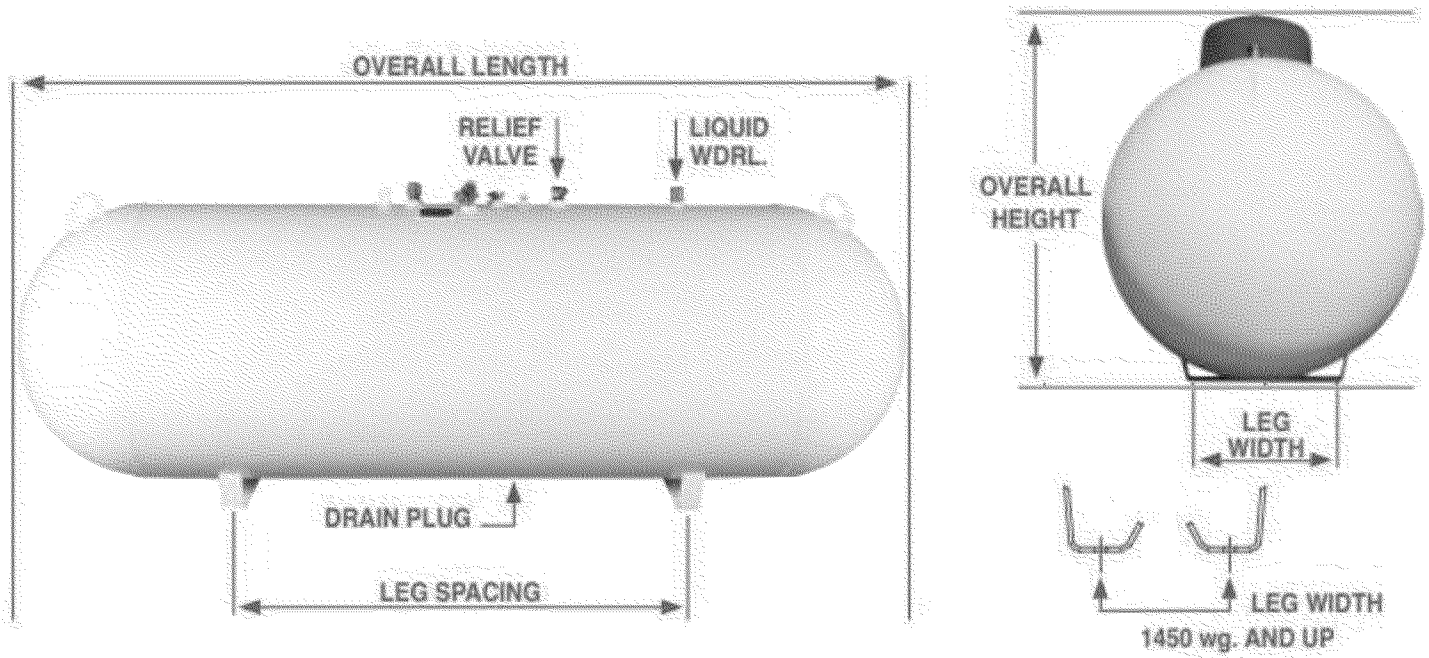
Meets locally enforced wind requirements

* Consult Generac Power Systems, Inc. for installation drawings for specific configurations and dimensions.



GENERAC

INSTALLATION DRAWING



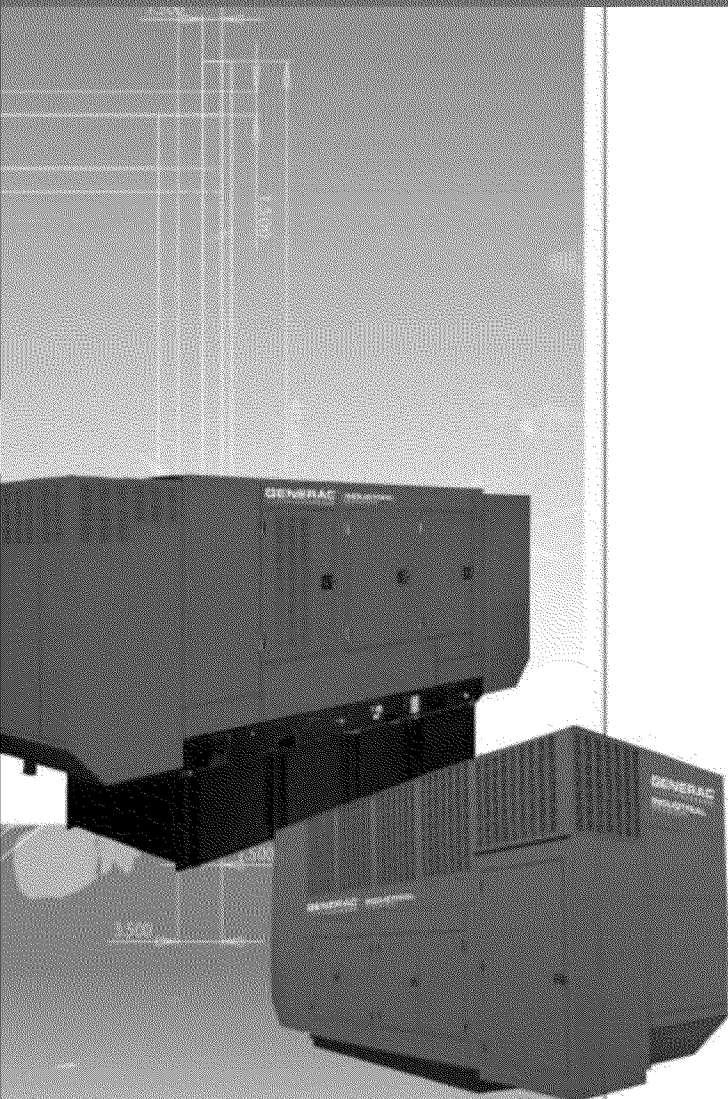
APPROXIMATE ABOVEGROUND VESSEL DIMENSIONS AND SPECIFICATIONS

WATER CAPACITY	DIAMETER (OD)	HEAD TYPE	OVERALL LENGTH	OVERALL HEIGHT	LEG** WIDTH	LEG** SPACING	WEIGHT (lbs.)	***QUANTITY	
								FULL LOAD	PER STACK
*120 wg.	24"	Ellip.	5'-8"	2'-10"	1'-1 1/2"	2'-10 1/2" or 3'-11"	260	108 112	16 14
*250 wg.	30"	Hemi.	7'-10"	3'-6"	1'-5"	4'-11"	480	54	9
*320 wg.	30"	Hemi.	9'-7"	3'-6"	1'-5"	5'	620	45	9
500 wg.	37 1/2"	Hemi.	10'	4'	1'-8"	5'	950	37 30	8 6
1000 wg.	41"	Hemi.	16'	4'-3"	1'-8"	10'-1"	1,800	15	5
1450 wg.	46 1/2"	Ellip.	17'-4"	4'-9"	1'-9"	11'-7"	2,650	12	4
1990 wg.	46 1/2"	Ellip.	23'-11"	4'-9"	1'-9"	16'	3,520	8	4

Dimensions and specifications shown are approximate. Individual vessels may vary.

GENERAC®
**INDUSTRIAL
POWER**

Factory & Field Test Reports

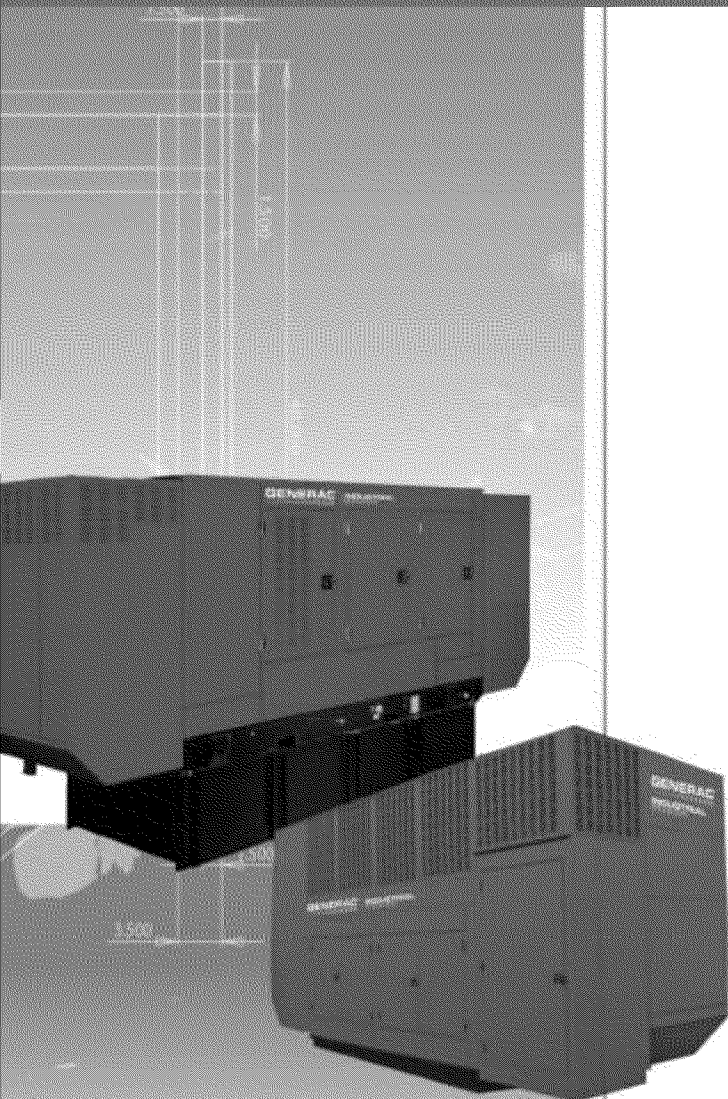


PAPE

**POWER
SYSTEMS**

GENERAC®
**INDUSTRIAL
POWER**

Warranty Statement



PAPE

**POWER
SYSTEMS**

Generac Power Systems 5 Year (5M) Limited Warranty for Residential and Commercial Standby Generators

For the period of warranty noted below, and upon the successful start-up and/or on-line activation of the unit, Generac Power Systems, Inc. "Generac" warrants that its Generator and/or transfer switch system will be free from defects in material and workmanship for the items and period set forth below. Generac will, at its discretion, repair or replace any part(s) which, upon evaluation, inspection and testing by Generac or an Authorized Generac Service Dealer, is found to be defective. Any equipment that the purchaser/owner claims to be defective must be evaluated by the nearest Authorized Generac Service Dealer. Emissions components are excluded from coverage under this extended warranty. Emissions warranty coverage is detailed in a separate emissions warranty.

Warranty Coverage: Warranty coverage period is for Five (5) years or two-thousand (2,000) hours, whichever occurs first.

Warranty Coverage Year(s)	1-2	3	4-5
USA, USA Territories, Canada	Parts, Labor and Limited Travel	Parts Only	Major Parts Component Only
International ¹	Parts, Labor and Limited Travel	Parts Only	None

¹Units sold for international use are limited to 1,000 hours of use.

Guidelines:

- Warranty begins upon the successful start-up and/or on-line activation of the unit.
- Unit must be registered and proof of purchase available
- Any and all warranty repairs and/or concerns must be performed and/or addressed by an Authorized/Certified Generac Service Dealer, or branch thereof. Repairs or diagnostics performed by individuals other than Authorized/Certified Generac Service Dealers not authorized in writing by Generac will not be covered.
- This Warranty is transferable between ownership of original install site.
- Generac supplied engine coolant heaters (block-heaters), heater controls and circulating pumps are only covered during the first year of the warranty provision.
- Generac may choose to repair, replace or refund a piece of equipment in its sole discretion.
- Enclosures are warranted against rust for the first year of ownership only. Damage caused after receipt of generator is the responsibility of the owner and is not covered by this warranty. Nicks, scrapes, dents or scratches to the painted enclosure should be repaired promptly by the owner.
- Warranty only applies to permanently wired and mounted units.
- Damage to any covered components or consequential damages caused by the use of a non-OEM part will not be covered by the warranty.
- Proof of performance of all required maintenance must be available.
- Travel allowance is limited to 100 miles maximum and three (3) hours maximum (per occurrence, whichever is less) round trip from the nearest Authorized Generac Dealer. Any additional travel required will not be covered.

The following will NOT be covered by this warranty:

- Costs of normal maintenance (i.e. tune-ups, associated part(s), adjustments, loose/leaking clamps, installation and start-up).
- Damage/failures to the generator and/or transfer switch system caused by accidents, shipping, handling, or improper storage.
- Damage/failures caused by operation with improper fuels, speeds, loads or installations other than what's recommended or specified by Generac Power Systems.
- Damage to the generator and/or transfer switch due to the use of non-Generac parts and/or equipment, contaminated fuels, oils, coolants/antifreeze or lack of proper fuels, oil or coolants/antifreeze.
- Failures due to normal wear and tear, accident, misuse, abuse, neglect, improper installation, improper sizing, or rodent, reptile, and/or insect infestation.
- Rental equipment used while warranty repairs are being performed and/or any extraordinary equipment used for removal and/or reinstallation of generator (i.e. cranes, hoists, lifts, et. al.).
- Planes, ferries, railroad, buses, helicopters, snowmobiles, snowcats, off-road vehicles or any other mode of transport deemed not standard by Generac.
- Products that are modified or altered in a manner not authorized by Generac in writing.
- Starting batteries, fuses, light bulbs, engine fluids and any related labor.
- Steel enclosures that rust as a result of improper installation, location in a harsh or salt water environment, or are scratched where the integrity of applied paint is compromised.
- Units sold, rated or used for "Prime Power", "Trailer Mounted" or "Rental Unit" applications as defined by Generac. Contact an Authorized Generac Service Dealer for definitions.
- Shipping costs associated with expedited shipping.
- Additional costs for overtime, holiday or emergency labor costs for repairs outside of normal business hours.
- Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
- Failures caused by any act of God or external cause including without limitation, fire, theft, freezing, war, lightning, earthquake, windstorm, hail, water, tornado, hurricane, or any other matters which are reasonably beyond the manufacturer's control.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SPECIFICALLY, GENERAC MAKES NO OTHER WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTIES WHICH ARE ALLOWED BY LAW, SHALL BE LIMITED IN DURATION TO THE TERMS OF THE EXPRESS WARRANTY PROVIDED HEREIN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. GENERAC'S ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF PART(S) AS STATED ABOVE. IN NO EVENT SHALL GENERAC BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF GENERAC'S NEGLIGENCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU ALSO HAVE OTHER RIGHTS FROM STATE TO STATE.

FOR AUSTRALIA ONLY: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For Service or other product inquiries in Australia, please contact Allpower by phone at 1800-333-428 or visit Allpower's website at www.allpower.com.au.

FOR NEW ZEALAND ONLY: Nothing in this warranty statement excludes, restricts or modifies any condition, warranty right or remedy which pursuant to the New Zealand Legislation (Commonwealth or State) including the Fair Trading Practices Act of 1986 or the Consumer Guarantees Act 1993 ("CGA") applies to this limited warranty and may not be so excluded, restricted or modified. Nothing in this statement is intended to have the effect of contracting out of the provisions of the CGA, except to the extent permitted by that Act, and these terms are to be modified to the extent necessary to give effect to that intention. If you acquire goods from Generac Power Systems or any of its authorized resellers and distributors for the purposes of a business, then pursuant to section 43(2) of the CGA, it is agreed that the provisions of the CGA do not apply. For Service or other product inquiries in New Zealand, please contact Allpower by phone at 09-269-1160 or visit Allpower's website at www.allpower.com.nz.

**GENERAC POWER SYSTEMS, INC. • P.O. BOX 8 • Waukesha, WI, USA 53187
Ph: (888) GENERAC (436-3722) • Fax: (262) 544-4851**

**To locate the nearest Authorized Dealer and to download schematics, exploded views and parts lists
visit our website: www.generac.com**

United States Environmental Protection Agency Warranty Statement (Stationary Emergency Spark-Ignited Generators)

Warranty Rights, Obligations and Coverage

The United States Environmental Protection Agency (EPA) and Generac Power Systems, Inc. (Generac) are pleased to explain the Emission Control System Warranty on your new stationary emergency engine. If during the warranty period, any emission control system or component on your engine is found defective in materials or workmanship, Generac will repair your engine at no cost to you for diagnosis, replacement parts and labor provided it be done by a Generac Authorized Warranty Service Facility. Your emission control system may include parts such as the fuel metering, ignition, and exhaust systems and other related emission related components listed below. Generac will warrant the emissions control systems on your 2009 and later model year engines provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your engine. For engines less than 130 HP the warranty period is two years from the date of sale to the ultimate purchaser. For engines greater than or equal to 130 HP the warranty period is three years or 2500 hours of operation, whichever comes first, from the date of the engine being placed into service. For high-cost warranted components, the Emission Control System warranty is valid for 5 years or 3500 hours of operation, whichever comes first.

Purchaser's/Owner's Warranty Responsibilities

As the engine purchaser/owner you are responsible for the following: 1) The engine must be installed and configured in accordance to Generac's installation specifications. 2) The completion of all maintenance requirements listed in your Owner's Manual. 3) Any engine setting adjustment must be done in accordance and consistent with the instructions in the Owner's Manual. 4) Any emission control system or component must be maintained and operated appropriately in order to ensure proper operation of the engine and control system to minimize emissions at all times.

Generac may deny any/or all Emission Control System Warranty coverage or responsibility of the engine, or an emission control system or component on your engine thereof, if it has failed due to abuse, neglect, unapproved modification or improper maintenance, or the use of counterfeit and/or "gray market" parts not made, supplied or approved by Generac. Warranty service can be arranged by contacting either your selling dealer or a Generac Authorized Warranty Service dealer, 1-800-333-1322 for the dealer nearest you. The purchaser/owner shall be responsible for any expenses or other charges incurred for service calls and/or transportation of the product to/from the inspection or repair facilities. The purchaser/owner shall be responsible for any and/or all damages or losses incurred while the engine is being transported/shipped for inspection or warranty repairs. Contact Generac Power Systems Inc. for additional Emission Control System Warranty related information, Generac Power Systems, Inc., PO. Box 8, Waukesha, WI 53187, or call 1-800-333-1322 or www.generac.com.

Important Note

This warranty statement explains your rights and obligations under the Emission Control System Warranty, which is provided to you by Generac pursuant to federal law. Note that this warranty shall not apply to any incidental, consequential, or indirect damages caused by defects in materials or workmanship or any delay in repair or replacement of the defective part(s). This warranty is in place of all other warranties, expressed or implied. Specifically, Generac makes no other warranties as to the merchantability or fitness for a particular purpose. Any implied warranties which are allowed by law, shall be limited in duration to the terms of the express warranty provided herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Emission Related Parts Include the Following (if so equipped)

- | | |
|--|---|
| <p>1) Fuel Metering System</p> <p>1.1) Gasoline Carburetor Assembly and Internal Components
A) Fuel Filter, B) Carburetor, C) Fuel Pump</p> <p>1.2) Carburetion Assembly and Its Components
A) Fuel Controller, B) Carburetor and Its Gaskets,
C) Mixer and Its Gaskets, D) Primary Gas Regulator,
E) Liquid Vaporizer</p> <p>1.3) Fuel Regulator</p> <p>2) Air Induction System Including A) Intake Pipe/Manifold,
B) Air Cleaner</p> | <p>3) Ignition System Including A) Spark Plug, B) Ignition Module,
C) Ignition Coil, D) Spark Plug Wires</p> <p>4) Exhaust System
A) Catalyst Assembly*, B) Exhaust Manifold, C) Muffler,
D) Exhaust Pipe, E) Muffler Gasket</p> <p>5) Crankcase Breather Assembly Including
A) Breather Connection Tube, B) PCV Valve</p> <p>6) Oxygen Sensor</p> <p>7) Diagnostic Emission-Control System</p> |
|--|---|

*High-Cost Warranted Component

United States Environmental Protection Agency Compliance Requirements (Stationary Emergency Spark-Ignited Generators)

Purchaser's/Owner's Record Keeping Responsibilities

The United States Environmental Protection Agency (EPA) and Generac Power Systems, Inc. (Generac) are pleased to explain your record keeping requirements for compliance with Subpart JJJJ- Standards of Performance for Stationary Spark Ignition Internal Combustion Engines as listed in the Electronic Code of Federal Regulations Title 40 Part 60. As the engine purchaser/owner who operates and maintains their certified emergency stationary engine and emission control system according to applicable emission related guidelines as specified in this Owner's Manual, you are required to meet the following notification and record keeping requirements to demonstrate compliance: 1) Maintain documentation that the engine is certified to meet emission standards. 2) Record keeping of maintenance conducted. 3) Record keeping of the provision allowing natural gas engines to operate using propane for a maximum of 100 hours per year as an alternate fuel solely during emergency operations provided the engine is not certified to operate on propane. 4) Meet all compliance notifications submitted to the purchaser/owner and maintain all supporting documentation. 5) Record keeping of hours of operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. For emergency engines greater than or equal to 130 HP, record keeping of hours of operation begins January 1, 2011. For emergency engines less than 130 HP, record keeping of hours of operation begins January 1, 2009; engines are equipped with non-resettable hour meters to facilitate record keeping.

Specific Air Quality Management or Air Pollution Control Districts may have different and additional record keeping/reporting requirements. Your permit to construct and/or operate the engine may be contingent upon compliance with those requirements. Check with your local Air Quality Management or Air Pollution Control District for specific requirements.

Emergency stationary internal combustion engines (ICE) may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, Generac, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The purchaser/owner may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.

The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For purchaser/owner of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section is prohibited.

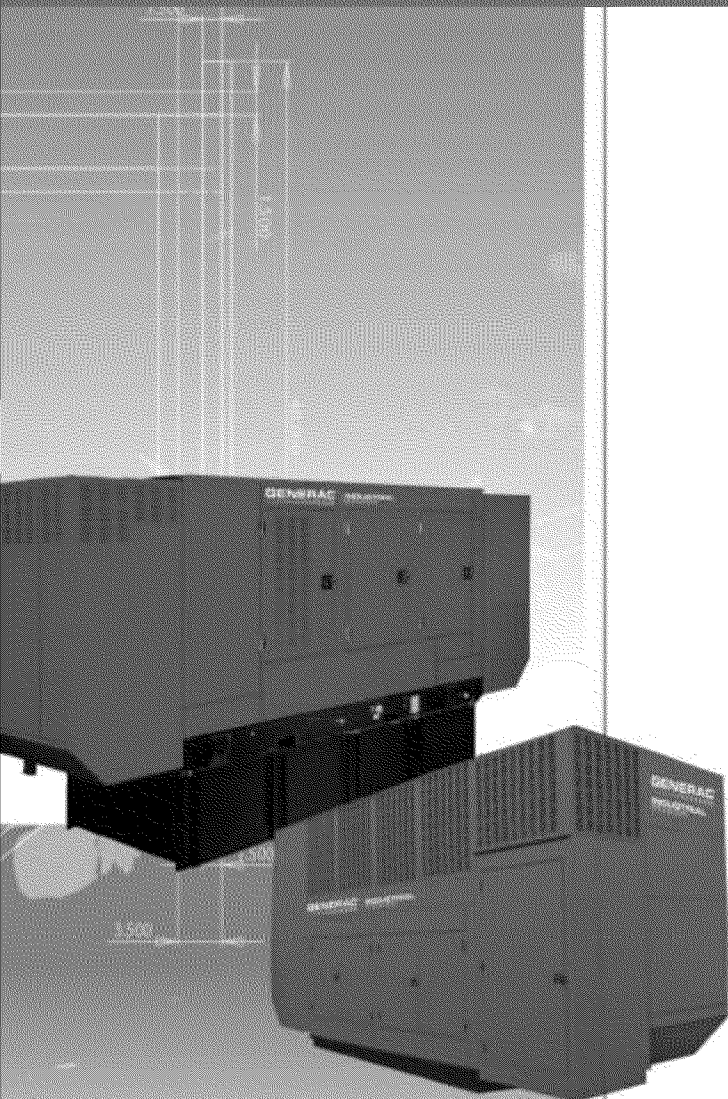
If you operate and maintain your certified emergency stationary SI internal combustion engine and emissions control systems in accordance to the specifications and guidelines in this Owner's Manual, EPA will not require engine performance testing. If not, your engine will be considered non-certified and you must demonstrate compliance according to Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines as listed in the Electronic Code of Federal Regulations Title 40 Part 60.

Emission-Related Installation Instructions

Your certified emergency stationary engine has pre-set emission control systems or components that require no adjustment. Inspection and replacement of an emissions related component is required to be done so in accordance with the requirements cited in the United States Environmental Protection Agency Warranty Statement or can be arranged by contacting either your selling dealer or a Generac Authorized Warranty Service dealer, 1-800-333-1322 for the dealer nearest you. Failing to follow these instructions when installing a certified engine in a piece of non-road equipment violates federal law 40 CFR 1068.105 (b), subject to fines or penalties as described in the Clean Air Act.

GENERAC®
**INDUSTRIAL
POWER**

Operation Owners Manuals



PAPE

**POWER
SYSTEMS**

Owner's Manual

For

Spark-Ignited Stationary Emergency Generators

Residential and Commercial

22 kW	2.4L
25 kW	1.5L
27 kW	2.4L
30 kW	1.5L
32 kW	2.4L
36 kW	2.4L
38 kW	2.4L
45 kW	2.4L
48 kW	5.4L
60 kW	2.4L

⚠ DANGER!



**NOT INTENDED FOR USE IN CRITICAL
LIFE SUPPORT APPLICATIONS.**



**ONLY QUALIFIED ELECTRICIANS OR
CONTRACTORS SHOULD ATTEMPT
INSTALLATION!**



**DEADLY EXHAUST FUMES! OUTDOOR
INSTALLATION ONLY!**

This manual should remain with the unit.

**This manual must be used in conjunction
with the appropriate installation manual.**

Para español , visita: <http://www.generac.com/service-support/product-support-lookup>

Pour le français, visiter : <http://www.generac.com/service-support/product-support-lookup>

Use this page to record important information about the generator set.

For quick and easy reference, copy the information printed on the Unit Identification Label onto the sample label printed here. The Unit Identification Label is located on the base frame adjacent to the front engine mount on all models.

When contacting an Independent Authorized Service Dealer about parts and/or service, always provide the complete model number and serial number.

Operation and Maintenance: Proper maintenance and care of the generator ensures safe operation and longer service life while also keeping operating expenses to a minimum. It is the operator's responsibility to perform all safety checks, to make sure that all maintenance is performed promptly, and to have the equipment checked periodically by an Independent Authorized Service Dealer.

Normal maintenance, service and replacement of parts are the responsibility of the owner/operator, and are not considered defects in materials or workmanship within the terms of the warranty. Individual operating habits and usage may contribute to the need for additional maintenance or service.

When the generator requires servicing or repairs, contact an Independent Authorized Service Dealer for assistance. Authorized service technicians are factory-trained and are capable of handling all service needs.

**AUTHORIZED
SERVICE DEALER LOCATION**

To locate the nearest
INDEPENDANT AUTHORIZED SERVICE
DEALER,
please call this number:
1-800-333-1322

or visit the dealer locator at:

www.generac.com/Service/DealerLocator/

GENERATOR UNIT

GEN MODEL:

MODEL:

SERIAL:

ALTERNATE

PROD DATE:

COUNTRY OF ORIGIN:

GENERATOR DATA

KW	KVA	HZ	PF
UPSIZE	ALT	KW	KVA
VOLT	/		AMP
ENG RPM		ALT RPM	
BREAKER	KW	AMP	
X"D		X"D	
3 PHASE DELTA			
UNBALANCED LOAD CAPACITY-25%			
ROTOR	STATOR	CLASS	
WINDINGS @	AMBIENT	TEMP	
		MANUF.	LOC.

WAUKESHA, WI USA

OK0876

SAMPLE LABEL

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⚠ WARNING

California Proposition 65. Engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm. (000004)

⚠ WARNING

California Proposition 65. This product contains or emits chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm. (000005)

Section 1 Safety

1.1 — Introduction

Thank you for purchasing this stationary automatic standby generator set. Every effort was made to ensure that the information in this manual was both accurate and complete at the time it was released. However, the manufacturer reserves the right to change, alter or otherwise improve this product at any time without prior notice.

This generator is designed to automatically supply electrical power to operate critical loads during a utility power failure. The unit is factory installed in an all-weather metal enclosure and **is intended exclusively for outdoor installation** using either Natural gas (NG) or Liquid Propane vapor (LPV).

NOTE: All 22-48 kW units are field convertible between NG or LPV, while 60 kW units are built per fuel requirements and are not field convertible.

When properly sized, the generator is suitable for supplying typical residential/commercial loads, such as induction motors (sump pumps, refrigerators, freezers, air conditioners, furnaces, etc.), electronic components (computers, monitors, televisions, etc.), lighting, microwaves, and other residential and business loads.

READ THIS MANUAL THOROUGHLY: The operator is responsible for proper and safe use of this equipment. Read and thoroughly understand the contents of this manual before attempting to use the equipment. If any portion of this manual is not fully understood, contact the nearest Independent Authorized Service Dealer for assistance.

SAVE THESE INSTRUCTIONS: The manufacturer suggests that this manual and the rules for safe operation be copied and posted near the generator installation site. Safety should be stressed to all operators and potential operators of this equipment.

SAFETY: Throughout this manual, and on tags and decals affixed to the unit, DANGER, WARNING, CAUTION and NOTE blocks are used to alert personnel to special instructions about a particular operation, function or service that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows:

⚠ DANGER!

INDICATES A HAZARDOUS SITUATION OR ACTION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.

⚠ WARNING!

Indicates a hazardous situation or action which, if not avoided, could result in death or serious injury.

⚠ CAUTION!

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTE: Notes contain additional information important to an operation or procedure.

Four commonly used safety symbols accompany the DANGER, WARNING and CAUTION blocks. The type of information each indicates is as follows:



This symbol points out important Safety Information that, if not followed, could endanger personal safety and/or property of others.



This symbol points out a potential Explosion Hazard.



This symbol points out a potential Fire Hazard.



This symbol points out a potential Electrical Shock Hazard.

These "Safety Alerts" cannot eliminate the hazards that they signal. Strict compliance with these special instructions, plus common sense, are major accident prevention measures.

1.2 — Safety Information

Study these safety rules carefully before operating or servicing this equipment. Become familiar with this Owner's Manual and with the unit. The generator can operate safely, efficiently and reliably only if it is properly installed, operated and maintained. Many accidents are caused by failing to follow simple rules or precautions.

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and on tags and decals affixed to the unit are not all-inclusive. If using a procedure, work method or operating technique the manufacturer does not specifically recommend, ensure that it is safe for personnel. Also make sure the procedure, work method or operating technique used does not render the generator unsafe.



Despite the safe design of this generator, operating this equipment imprudently, neglecting its maintenance or being careless can cause possible injury or death. Permit only responsible and capable persons to install, operate and maintain this equipment.



Potentially lethal voltages are generated by these machines. Ensure steps are taken to make the machine safe before attempting to work on the generator.



Parts of the generator are rotating and/or hot during operation. Exercise care near a running generator.



The installation of this generator must always comply with applicable codes, standards, laws and regulations.



A running generator gives off DEADLY carbon monoxide, an odorless, colorless, poisonous gas. Breathing carbon monoxide can cause dizziness, throbbing temples, nausea, muscular twitching, headache, vomiting, weakness, sleepiness, inability to think clearly, fainting, unconsciousness or even death.



The control panel for this unit is intended to be operated by qualified service personnel only.

1.3 — General Hazards

- For safety reasons, this equipment should only be installed, serviced and repaired by a Service Dealer or other competent, qualified electrician or installation technician who is familiar with applicable codes, standards, regulations and product Installation Manual guidelines. The operator also must comply with all such codes, standards, regulations and product Installation Manual guidelines.
- The engine exhaust fumes contain carbon monoxide, which can be DEADLY. This dangerous gas, if breathed in sufficient concentrations, can cause unconsciousness or even death. DO NOT alter or add to the exhaust system or do anything that might render the system unsafe or in noncompliance with applicable codes and standards.
- Install a carbon monoxide alarm indoors, according to manufacturer's instructions/recommendations.
- Adequate, unobstructed flow of cooling and ventilating air is critical for correct generator operation. Do not alter the installation or permit even partial blockage of ventilation provisions, as this can seriously affect safe operation of the generator. The generator MUST be installed and operated outdoors only.
- Keep hands, feet, clothing, etc. away from drive belts, fans, and other moving or hot parts. Never remove any drive belt or fan guard while the unit is operating.
- When working on this equipment, remain alert at all times. Never work on the equipment when physically or mentally fatigued.
- Inspect the generator regularly, and contact the nearest Dealer for parts needing repair or replacement.
- Before performing any maintenance on the generator, remove the control panel fuse and disconnect the Negative (-) battery cable to prevent accidental startup. When disconnecting battery cables always remove the NEGATIVE (-) cable first. When reconnecting the cables, connect the POSITIVE (+) cable first.
- Never use the generator or any of its parts as a step. Stepping on the unit can stress and break parts, and may result in dangerous operating conditions from leaking exhaust gases, fuel leakage, oil leakage, etc.

1.4 — Exhaust Hazards

- Generator engine exhaust contains DEADLY carbon monoxide, an odorless, colorless, poisonous gas. Breathing carbon monoxide can cause dizziness, throbbing temples, nausea, muscular twitching, headache, vomiting, weakness, sleepiness, inability to think clearly, fainting, unconsciousness or even death. If any carbon monoxide poisoning symptom is experienced, move into fresh air and immediately seek medical attention.
- This generator is designed for OUTDOOR installation ONLY. Never operate the generator inside any garage or other enclosed space.

1.5 — Electrical Hazards

- All generators covered by this manual produce dangerous electrical voltages that can cause fatal electrical shock. Utility power delivers extremely high and dangerous voltages to the transfer switch, as does the standby generator when it is in operation. Avoid contact with bare wires, terminals, connections, etc. while the unit is running. Ensure all appropriate covers, guards and barriers are in place, secured and/or locked before operating the generator. If work must be done around an operating unit, stand on an insulated, dry surface to reduce potential shock hazard.
- Do not handle any kind of electrical device while standing in water, while barefoot, or while hands or feet are wet. DANGEROUS ELECTRICAL SHOCK MAY RESULT.
- The generator may crank and start at any time when utility power is lost. When this occurs, load circuits are transferred to the STANDBY (generator) power source. Before working on the generator, always move the Main Circuit Breaker switch on the control panel down to the OFF (Open) position, press the OFF key on the control panel keypad, remove the 7.5 amp fuse, and disconnect the battery negative cable (black) from the battery negative (-) terminal.
- In case of accident caused by electric shock, immediately shut down the source of electrical power. If this is not possible, attempt to free the victim from the live conductor. AVOID DIRECT CONTACT WITH THE VICTIM. Use a nonconducting implement, such as a dry rope or board, to free the victim from the live conductor. If the victim is unconscious, apply first aid and get immediate medical help.
- Never wear jewelry when working on this equipment. Jewelry can conduct electricity resulting in electric shock, or may get caught in moving parts resulting in injury.

1.6 — Fire Hazards

- For fire safety, the generator must be installed and maintained properly. Installation MUST always comply with applicable codes, standards, laws, regulations and product Installation Manual guidelines. Adhere strictly to local, state, and national electrical and building codes. Comply with regulations of the Occupational Safety and Health Administration (OSHA). Also, ensure that the generator is installed in accordance with the manufacturer's instructions and recommendations. Following proper installation, do nothing that might alter a safe installation and render the unit in noncompliance with the aforementioned codes, standards, laws and regulations.
- Keep a fire extinguisher near the generator at all times. Extinguishers rated "ABC" by the National Fire Protection Association are appropriate for use on the standby generator. Keep the extinguisher properly charged and be familiar with its use. Consult the local fire department with any questions pertaining to fire extinguishers.

1.7 — Explosion Hazards

- Do not smoke around the generator. Wipe up any fuel or oil spills immediately. Ensure that no combustible materials are left in the generator compartment, or on or near the generator as FIRE or EXPLOSION may result. Keep the area surrounding the generator clean and free from debris.

⚠ WARNING!



If this generator is used to power electrical load circuits normally powered by a utility power source, it is required by code to install a transfer switch. The transfer switch must effectively isolate the electrical system from the utility distribution system when the generator is operating (NEC 702). Failure to isolate an electrical system by such means will result in damage to the generator and also may result in injury or death to utility power workers due to backfeed of electrical energy.

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Section 2 Specifications

2.1 — Emission Information

The U.S. Environmental Protection Agency (EPA) requires that the generator comply with exhaust emission standards. The generator is certified to meet the applicable EPA emission levels, and is certified for use as a stationary engine for standby power generation. Any other use may be a violation of federal and/or local laws. To ensure that the engine complies with the applicable emission standards for the duration of the engine's life, it is important to follow the maintenance specifications in Section 5.

2.1.1— Emissions Data Plate

A data plate is attached to the valve cover to verify compliance with EPA emissions regulations.

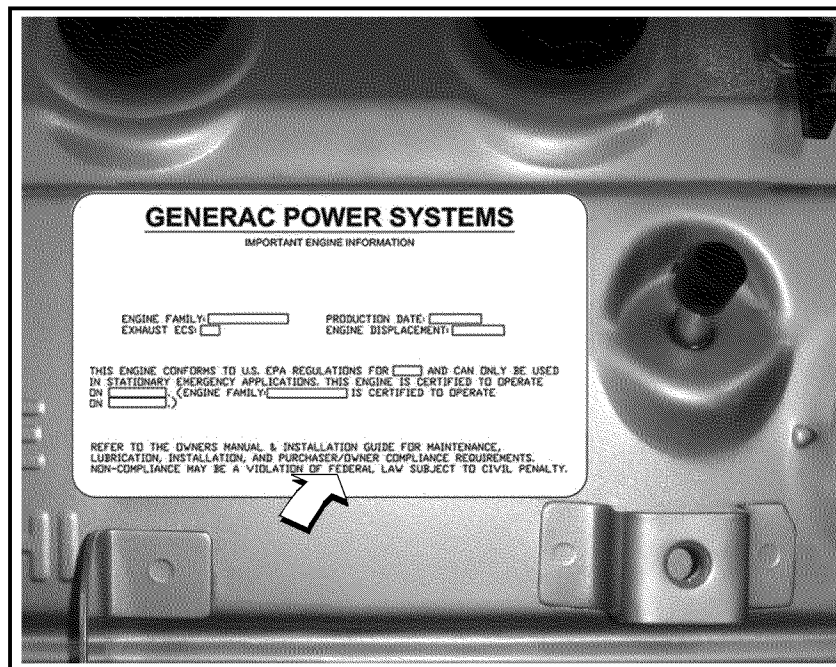


Figure 2-1. Emissions Data Plate (Sample)

Specifications

2.2 — Specifications

Model	22 kW	25 kW	27 kW	30 kW	32 kW	36 kW	38 kW	45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	1.5L	2.4L	2.4L	2.4L	2.4L	5.4L	2.4L
Generator Set										
Rotor Insulation	Class H				Class F	Class H	Class F	Class H	Class F	Class H
Stator Insulation	Class H									
Dimensions L x W x H	62.2 x 30.6 x 38.6				76.8 x 35 x 46.1					
Product Weight W/ Steel Enclosure (lbs)	—	865	—	895	—		1255		—	1283
Product Weight W/ Aluminum Enclosure (lbs)	900	777	940	807	1225	1235	1202		1555	1230
Shipping Weight W/ Steel Enclosure (lbs)	—	931	—	961	—		1355		—	1383
Shipping Weight W/ Aluminum Enclosure (lbs)	966	843	1006	873	1325	1335	1302	1302	1655	1330
Engine System										
Type	In-Line								V-type	In-Line
Dry Weight (lbs)	287	243	287	243	287				527	287
Bore (in/mm)	3.41/86.5	3.05/77.4	3.41/86.5	3.05/77.4	3.41/86.5				3.55/90.2	3.41/86.5
Stroke (in/mm)	3.94/100	3.13/79.5	3.94/100	3.13/79.5	3.94/100				4.17/105.9	3.94/100
Displacement (liters)	2.4	1.5	2.4	1.5	2.4				5.4	2.4
Firing Order	1-3-4-2								1-3-7-2-6-5-4-8	1-3-4-2
Direction or Rotation	CW From Flywheel									
Compression Ratio	9.5:1	11:1	9.5:1	11:1	9.5:1				9:1	9.5:1
Spark Plug Gap (mm)	1.07-1.17	0.9	1.07-1.17	0.9	0.71	1.07-1.17	0.71	1.07-1.17	1.29-1.45	0.71
Cooling System										
Water Pump	Belt Driven									
Fan Speed (rpm)	1980	2484	1980	2484	1500	1865	1500	1865	1954	2100
Fan Diameter (inches)	18.1	17.7	18.1	17.7	22.0					
Fan Mode	Pusher				Puller					
Air Flow (ft ³ /min.)	2400	2490	2400	2490	2200	2725	2200	2725	4350	3280
Coolant Capacity (gallons/ liters)	2.5/9.5	2.0/7.6	2.5/9.5	2.0/7.6	2.5/9.5				3.0/11.4	2.5/9.5
Heat Rejection to Coolant (Btu/h)	99,000	112,000	105,000	135,000	145,000	193,000	145,000	193,000	186,000	270,000
Max Operating Air Temp on Radiator	150° F (60° C)									
Max Ambient Temp	140° F (50° C)									
Thermostat (Full Open)	190° F (88° C)									
Lubricating System										
Oil Pump Type	Gear									
Oil Filter Type	Full Flow Spin-On Cartridge									
Crankcase Oil Capacity (quarts/liters)	4/3.8								6/5.7	4/3.8
Lubricating Oil Type	5W-30									
Air Intake System										
Type	Naturally Aspirated				Turbo/ Aftercooled	Naturally Aspirated	Turbo/ Aftercooled	Naturally Aspirated		Turbo/ Aftercooled
Exhaust System										

Model	22 kW	25 kW	27 kW	30 kW	32 kW	36 kW	38 kW	45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	1.5L	2.4L	2.4L	2.4L	2.4L	5.4L	2.4L
Breather	Closed				Open	Closed	Open	Closed		Open
Exhaust Flow at Rated Output 60 Hz	165 cfm	203 cfm	180 cfm	237 cfm	300 cfm	420 cfm	300 cfm	420 cfm	414 cfm	494 cfm
Exhaust Temperature at Rated Output	900° F	1100° F	1000° F	1130° F	1075° F	1100° F	1075° F	1100° F	1025° F	1050° F
Electrical System										
Battery Charge Alternator	12V, 30 Amp	12V, 15 Amp	12V, 30 Amp	12V, 15 Amp	12V, 30 Amp					
Recommended Battery	Group 26								Group 24F	Group 26
Static Battery Charger	2.5 Amp									
Governor System										
Type	Electronic									
Frequency Regulation	Isochronous									
Steady State Regulation	+/- 0.25%									
Voltage Regulator										
Type	Electronic									
Sensing Phase	Single									
Regulation	+/- 1%									
Fuel System										
Operating Pressure	5-14" WC									

A complete specification sheet is included in the documentation provided with the unit at the time of purchase. For additional copies, consult your local Independent Authorized Service Dealer.

2.3 — Engine Oil Recommendations

To maintain the product warranty, use only genuine Generac replacement parts. Generac maintenance kits include both the oil filter and air filter, and can be obtained through any Authorized Dealer.

Although the unit is filled at the factory with 5W-20 engine oil, replace with 5W-30 engine oil at the first oil change which is due at 30 hours break-in. Select a high-quality detergent oil classified "SJ or SH." Detergent oils keep the engine cleaner and reduce carbon deposits. After break-in, a synthetic oil that meets or exceeds SAE specifications is recommended. Once synthetic oil is used, it should be used for the life of the generator. It is not recommended to go back to a mineral oil. Do not use special additives.

NOTE: If not already equipped, it is strongly recommended to use the optional Cold Weather Start Kit for temperatures below 32°F. The oil grade for temperatures below 32°F is 5W-30 synthetic oil.

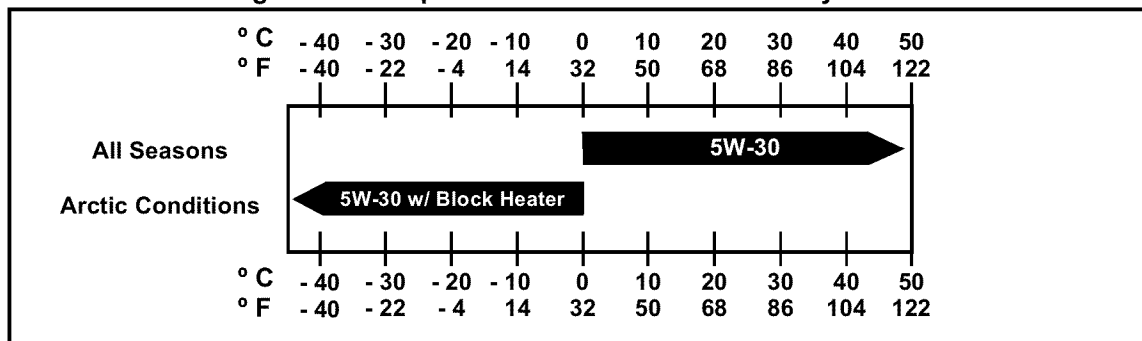


Figure 2-2. Lubricating Oil Recommendations

2.4 — Weather and Maintenance Kits

To keep the generator running at its peak, the following kits are offered:

- Cold Weather Kit
 - Recommended for climates with temperatures below 32°F
- Extreme Cold Weather Kit
 - Recommended Block Heater Kit for protection in temperatures below 32°F
- Scheduled Maintenance Kit
 - Kit includes the recommended parts to maintain the generator. Refer to the Service Schedule for regular maintenance intervals.

For additional information, or to order any of these kits, please contact an Independent Authorized Service Dealer or Customer Service Representative.

2.5 — Coolant Water Treatment

Use of improper coolants can damage the engine cooling system. Use demineralized water or distilled water for best results. Hard water causes scale deposits, which reduces cooling efficiency and raises internal temperatures, possibly leading to engine damage. Use an anti-corrosive to prevent rot in summer and anti-freeze to prevent freezing in winter.

Dilute the anti-freeze based on a theoretical temperature that is 9-18°F (5-10°C) below the lowest temperature expected in the area. A ratio of 40-60% is most common range.

Freezing Point °F (°C)	-13 (-25)	-31 (-35)	-58 (-50)
Coolant (% Volume)	40	50	60
Water (% Volume)	60	50	40

NOTE: Use only Peak Fleet-Charge® 50/50 ethylene glycol type coolant (available from any authorized dealer).

⚠ CAUTION!



Do not use propylene glycol type coolant. Using the wrong coolant, mixing different types of coolant, or even mixing different brands of the correct type of coolant, can produce unsatisfactory results, possibly leading to engine damage.

2.6 — Fuel Requirements

The Stationary Emergency Generator may be equipped with one of the following fuel systems:

- Natural Gas Fuel System
- Propane Vapor (LPV) fuel system

Recommended fuels must have a BTU content of at least 1,000 BTUs per cubic foot (37.26 megajoules per cubic meter) for NG, or at least 2,520 BTUs per cubic foot (93.8 megajoules per cubic meter) for LPV. If converting to LPV from NG, a minimum LP tank size of 250 gallons (946 liters) is recommended. See the Installation Manual for complete details and procedures.

2.7 — Reconfiguring the Fuel System

While some models are created fuel specific for either Natural gas (NG) or Liquid Propane vapor (LPV) and are not fuel convertible, others are configured at the factory for NG, but are field convertible to LPV. Units fitted with a dual fuel carburetion system are generally configured for the selected fuel source during installation.

To reconfigure the fuel system, change the jet in the demand regulator, and then navigate to the appropriate menu to assign the new fuel type. Before proceeding, be aware that the fuel conversion software is password protected.

NOTE: Generac recommends that fuel conversion be done by an authorized dealer or a qualified, competent installation contractor or electrician who is familiar with applicable codes, standards and regulations.

2.7.1— Fuel Conversion Procedure from NG to LPV

1. Turn off the main gas supply.
2. Remove battery negative cable (black) from battery negative (-) terminal.
3. Remove carburetor fuel hose from outlet port. See Figure 2-3.
4. Remove screw at front of power wire connector and pull connector from fuel solenoid.
5. Expand spring clamp on fuel enrichment hose and remove from hose barb.

NOTE: On 5.4L (48 kW) units, remove two screws (with flat washers, lock washers and hex nuts) to release fuel inlet flange from frame rail. This will provide adequate access to the regulator for jet conversion.

6. Remove black pipe assembly from outlet port. If clearance is not sufficient, first remove fuel solenoid assembly.
7. Rotate NG fuel jet counterclockwise to remove from the outlet port.

NOTE: Both the NG and LP fuel jets are slotted, so that they may be removed and installed using an ordinary flat blade screwdriver.

8. Rotate LP fuel jet counterclockwise to remove from the jet keeper port.

NOTE: The orifice size is stamped on each jet. The jet with the larger orifice is used for running on NG.

9. Rotate LP fuel jet clockwise to install in the outlet port.
10. Rotate NG fuel jet clockwise to install in the jet keeper port.
11. Install fuel solenoid assembly, if removed.

NOTE: Solenoid must be installed with flow arrow pointed toward black pipe assembly. See inset of Figure 2-3.

12. Apply appropriate pipe sealant to threads of black pipe assembly and install into outlet port.

NOTE: On 5.4L (48 kW) units, install two screws (with flat washers, lock washers and hex nuts) to fasten fuel inlet flange to frame rail.

13. Expand spring clamp on fuel enrichment hose and install onto hose barb.
14. Push power wire connector onto fuel solenoid and install screw.
15. Install carburetor fuel hose onto outlet port.
16. Install battery negative cable (black) onto battery negative (-) terminal.
17. Turn on the main gas supply.
18. See Subsection 2.7.2—Change Fuel Selection.

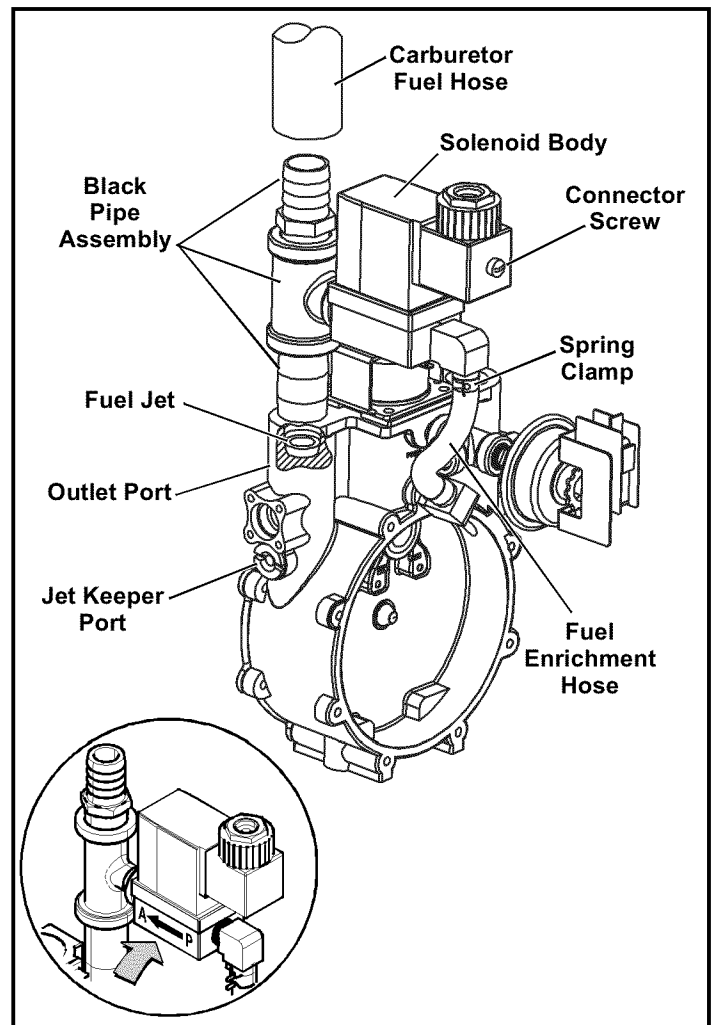


Figure 2-3. Demand Regulator Assembly

⚠ DANGER!

Serious injury, including death, or damage will occur if not configured properly. Consult an Authorized Dealer with any questions.

2.7.2— Change Fuel Selection

⚠ CAUTION!

Failure to convert both the hardware and software will result in decreased performance and an increase in emissions, which is a violation of Environmental Protection Agency (EPA) regulations. It is the responsibility of the installer to make sure that only the correct recommended fuel is supplied to the generator fuel system. Thereafter, the owner/operator must ensure that only the proper fuel is supplied.

1. Once fuel regulator is converted to desired fuel type call 888-9ACTIVATE for the control panel password. This fuel selection conversion is required to be password protected by EPA regulations.
2. Access the control panel located behind the viewing window at the rear of the unit.
3. From the Home screen, press ESCAPE to display the Main Menu.
4. Navigate the software using UP ARROW, DOWN ARROW, ENTER and ESCAPE. For more detailed information, see Subsection 4.3 —Menu Navigation.

2.8 — Battery Requirements

Group 26, 12 Volt	1.5L, 2.4L Engines: For areas where temperatures regularly drop below 32° F (0° C).
NOTE: Battery dimensions (L x W x H) for Group 26 battery must not exceed 8-3/16" x 6-13/16" x 7-3/4" (208mm x 173mm x 197mm).	
Group 24F, 12 Volt	5.4L Engine: For areas where temperatures regularly drop below 32° F (0° C).
NOTE: Battery dimensions (L x W x H) for Group 24F battery must not exceed 10-3/4" x 6-13/16" x 9" (273mm x 173mm x 229mm).	

2.8.1— Battery Charger

A 2.5 amp battery charger is integrated into the control panel module. It operates as a "Smart Charger" which ensures output charging levels are safe and continuously optimized to promote maximum battery life.

2.9 — Corrosion Protection

Periodically wash and wax the enclosure using automotive type products. Frequent washing is recommended in salt water/coastal areas.

Section 3 *Activation and Startup*

3.1 — Orientation

NOTE: The 2.4L (32 kW) unit is depicted in the artwork used in this manual. The location and appearance of some components may vary between engine models.

The side of the enclosure with the viewing window is identified as the rear of the generator set. The right and left sides are identified by standing at the rear and looking towards the front of the unit.

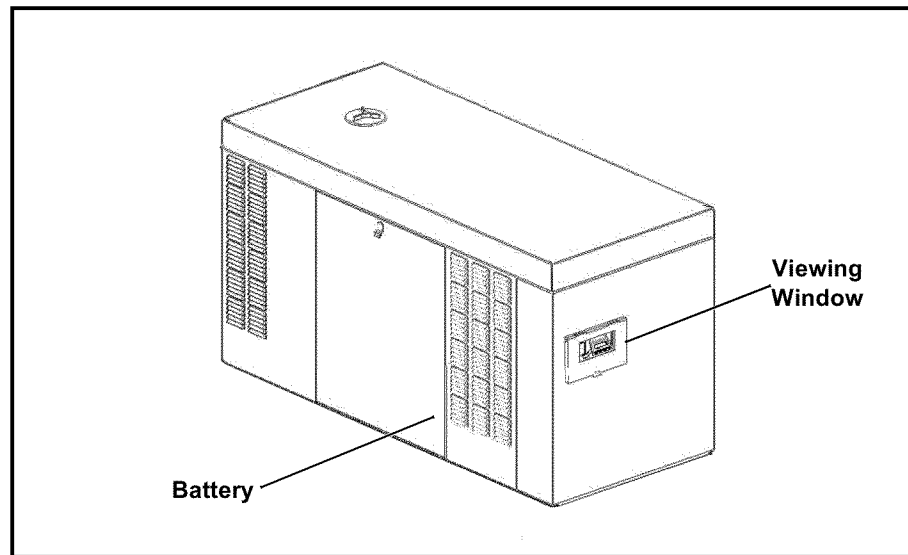


Figure 3-1. Enclosure (Rear Left View)

3.2 — Remove Side Access Panels

NOTE: Access panels are located at both the left and right sides of the enclosure.

1. Remove key from bag attached to door of unit.
2. Insert key into latch and rotate counterclockwise 1/2 turn. See Figure 3-2.
3. Raise panel using thumb latch.

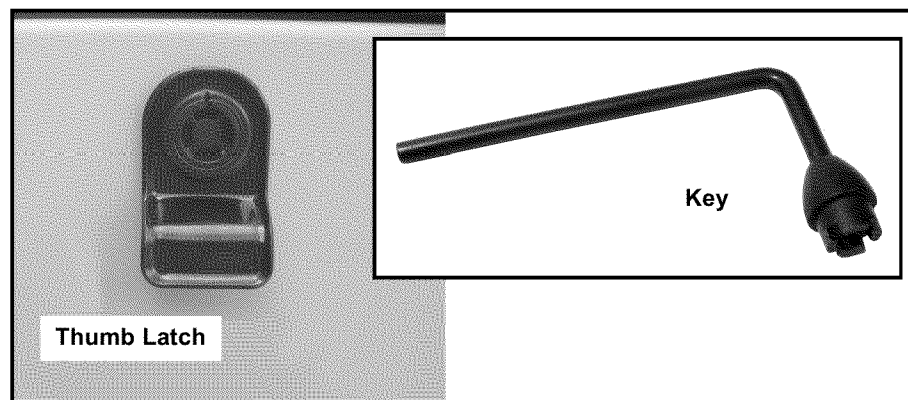


Figure 3-2. Access Panel Key

3.3 — Install Battery



CAUTION: Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in serious injury.

1. Loosen two screws with nylon washers to release hold-down clamp from battery tray.
2. Install battery onto tray.
3. Install two screws with nylon washers to secure hold-down clamp to battery tray.
4. Install battery positive cable (red) to battery positive (+) terminal.
5. Install battery negative cable (black) to battery negative (-) terminal.

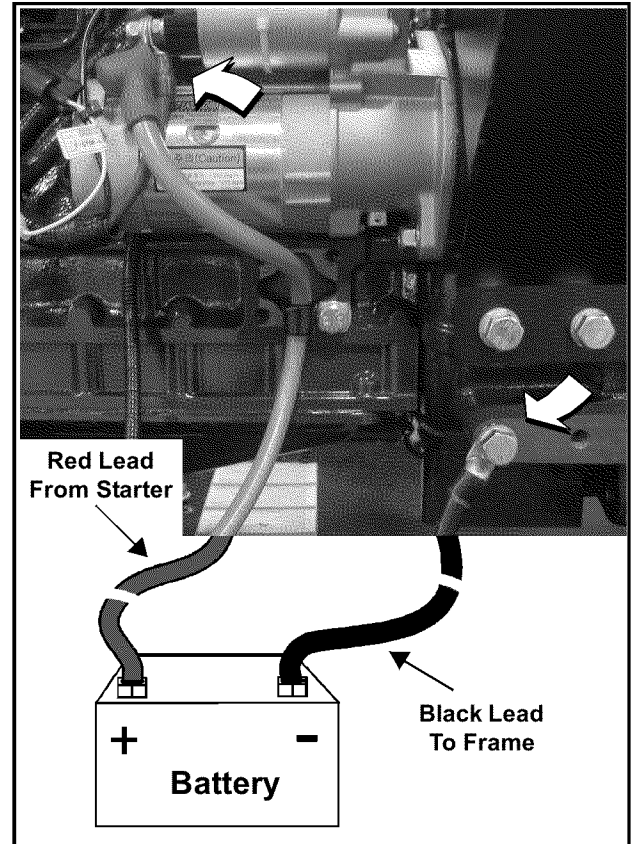


Figure 3-3. Battery Cable Connections

3.4 — Open Viewing Window

1. Remove plastic film from both sides of viewing window.
2. Rotate viewing window upward to access control panel.
3. To hold viewing window in the open position, remove rod from clip at back of window and insert into hole in frame. See Figure 3-4.

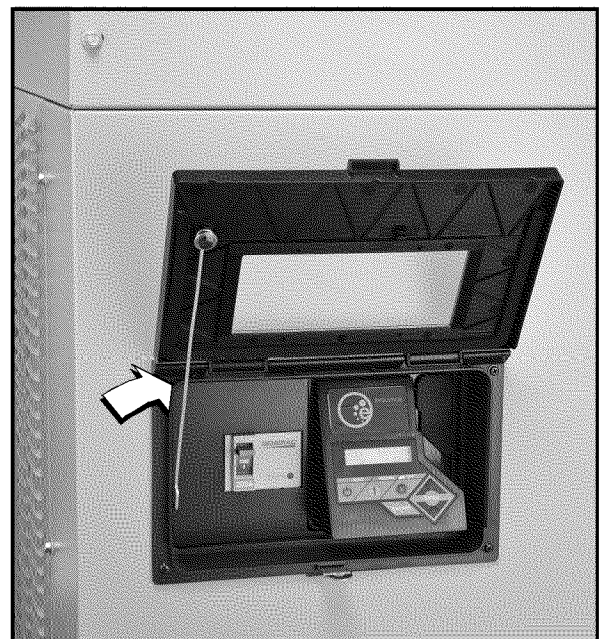
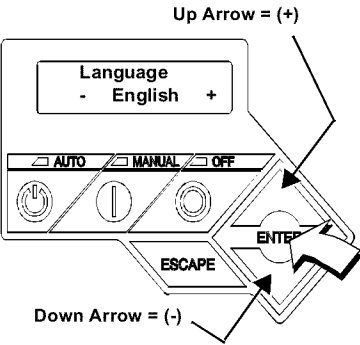


Figure 3-4. Viewing Window

3.5 — Activate Unit

<p>Display Reads:</p>  <p>Up Arrow = (+)</p> <p>Down Arrow = (-)</p>	<p>Generator Active is displayed on the LCD screen when the unit is first powered up. After displaying firmware and hardware version codes, as well as other system information, the Installation Wizard is launched, and the Language screen is displayed.</p> <p>Use UP ARROW or DOWN ARROW to scroll to desired language.</p> <p>Press ENTER.</p>	<p>If the wrong language is selected, it may be changed later using the Edit menu.</p>
<p>Display Reads:</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Activate me (ENT) or ESC to run in manual</p> </div>	<p>Press ENTER.</p>	<p>Press ESCAPE to abort the activation sequence. NOT ACTIVATED is displayed and the generator will run in manual mode only. Disconnect and reconnect the negative battery cable to restart the activation routine. If power is removed after a successful activation, no data is lost, but the time and date must be updated.</p>
<p>Display Reads:</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>To Activate go to www.activategen.com</p> </div>	<p>Go to www.activategen.com or call 1-888-9ACTIVATE (922-8482, US & Canada only) if activation passcode is not available.</p> <p>If activation pass code is available, wait a few seconds for the next display.</p>	
<p>Display Reads:</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>SN 1234567890 PASS CODE XXXXX</p> </div>	<p>Use UP ARROW or DOWN ARROW to increment or decrement the digit to correspond to the first number of the pass code.</p> <p>Press ENTER.</p> <p>Repeat step to enter remaining digits.</p>	<p>Press ESCAPE to return to preceding digits if a correction becomes necessary.</p> <p>If attempts to enter the activation code are unsuccessful, check the number against the code given on activategen.com. If it is correct, contact 1-888-9ACTIVATE (922-8482, US & Canada only).</p>
<p>Display Reads:</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Select Hour (0-23) - 6 +</p> </div>	<p>Use UP ARROW or DOWN ARROW to increment or decrement the hour. Press ENTER.</p> <p>Use UP ARROW or DOWN ARROW to increment or decrement the minute. Press ENTER.</p> <p>Use UP ARROW or DOWN ARROW to select the month. Press ENTER.</p> <p>Use UP ARROW or DOWN ARROW to increment or decrement the date. Press ENTER.</p> <p>Use UP ARROW or DOWN ARROW to increment or decrement the year. Press ENTER.</p>	

<p>Display Reads:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Quiet Test Mode? Yes No </div>	<p>Use UP ARROW or DOWN ARROW to select either Yes or No.</p> <p>Press ENTER.</p>	<p>Select YES to perform exercise at low speed. Select NO to perform exercise at normal operating speed.</p>
<p>Display Reads:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Select Hour (0-23) - 1 + </div>	<p>Set Exercise Time.</p> <p>Use UP ARROW or DOWN ARROW to increment or decrement the hour. Press ENTER.</p> <p>Use UP ARROW or DOWN ARROW to increment or decrement the minute. Press ENTER.</p> <p>Use UP ARROW or DOWN ARROW to scroll to the day of the week. Press ENTER.</p>	<p>In the AUTO mode, the engine starts and runs once each week at the time and day specified. During the exercise cycle, the unit runs approximately 12 minutes and then shuts down. Transfer of loads to the generator does not occur unless utility power fails.</p>

3.6 — Start and Run Engine

1. Pull up rubber flap covering fuse holder and verify installation of 7.5 amp fuse. See A of Figure 3-5.
2. Move the Main Circuit Breaker switch down to the OFF (Open) position. See B of Figure 3-5.
3. Press MANUAL on the control panel to start the engine. A blue LED illuminates to confirm that the system is in the MANUAL mode. See C of Figure 3-5.
4. Allow the engine to run until it reaches normal operating temperature.
5. Press OFF on the control panel to stop the engine. A red LED illuminates to confirm that the system is in the OFF mode.

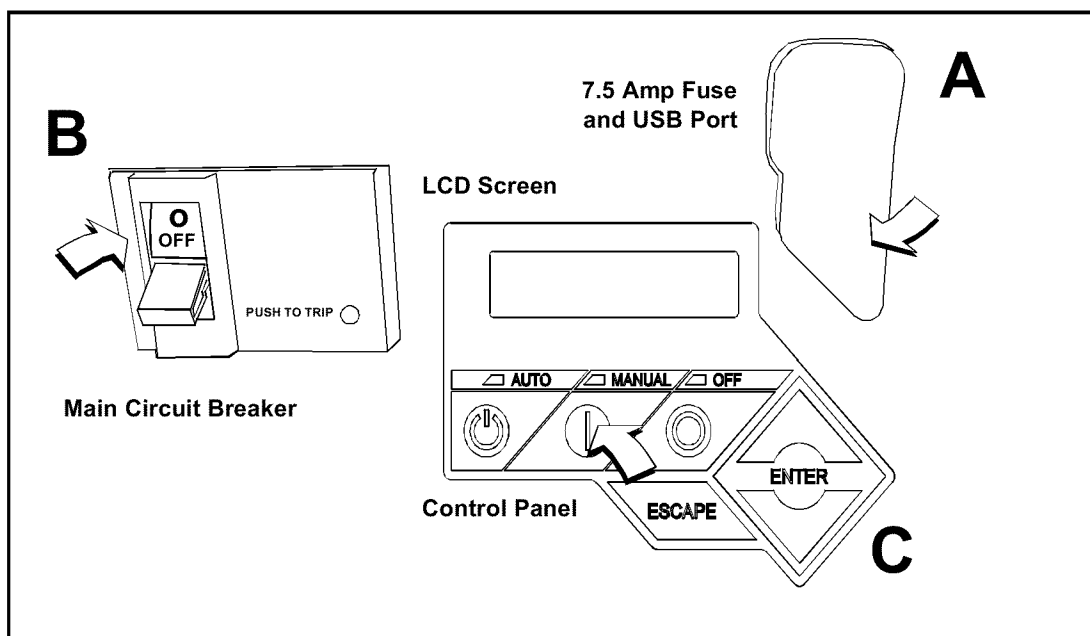


Figure 3-5. Generator Control Panel

3.7 — Operational Checks

⚠ CAUTION!



The following procedures require special tools and skills. Contact an authorized service provider to perform these tasks.

3.7.1— Self Test

Upon power up, the controller goes through a system self test which checks for the presence of utility voltage on the DC circuits. This is done to prevent damage if the installer mistakenly connects AC utility power sense wires into the DC terminal block. If utility voltage is detected, the controller displays a warning message and locks out the generator, thereby preventing damage to the controller. Remove power to the controller to clear this warning.

Utility voltage must be turned on and present at the N1 and N2 terminals inside the generator control panel for this test to be performed and pass.

Before starting, complete the following:

1. Verify that the generator is OFF. A red LED on the control panel illuminates to confirm that the system is in the OFF mode.
2. Verify that the Main Circuit Breaker switch on the generator control panel is in the OFF (Open) position.
3. Turn off all circuit breakers/electrical loads that will be powered by the generator.
4. Check the coolant and engine lubricating oil levels. See Subsections 5.7.5 and 5.7.7, respectively.

During initial start up only, the generator may exceed the normal number of start attempts and experience an “over crank” fault. This is due to accumulated air in the fuel system during installation. Reset the control board and restart up to two more times, if necessary. If unit fails to start, contact the local dealer for assistance.

3.7.2— Check Manual Transfer Switch Operation

Refer to the manufacturer’s instructions.

⚠ DANGER!



Do not attempt manual transfer switch operation until all power voltage supplies to the transfer switch have been positively turned off. Failure to turn off all power voltage supplies will result in extremely hazardous and possibly fatal electrical shock.

3.7.3— Electrical Checks

Complete electrical checks as follows:

1. Verify that the generator is OFF. A red LED on the control panel illuminates to confirm that the system is in the OFF mode.
2. Verify that the Main Circuit Breaker switch on the generator control panel is in the OFF (Open) position.
3. Turn OFF all circuit breakers/electrical loads that will be powered by the generator.
4. Turn on the utility power supply to the transfer switch using the means provided (such as a utility main line circuit breaker).

⚠ DANGER!



The transfer switch is now electrically “hot.” Contact with “hot” parts will result in extremely hazardous and possibly fatal electrical shock.

5. Use an accurate AC voltmeter to check utility power source voltage across transfer switch terminals N1, N2, and N3 (if three phase). Normal line-to-line voltage should be equivalent to rated unit voltage.
6. Check utility power source voltage across terminals N1, N2, and N3 (if three phase) and the transfer switch neutral lug.
7. When certain that utility supply voltage is compatible with transfer switch and load circuit ratings, turn OFF the utility power supply to the transfer switch.
8. Press MANUAL on the control panel to crank and start the engine.

9. Allow the engine to warm up for about five minutes. Move the Main Circuit Breaker switch on the generator control panel up to the ON (or closed) position.

⚠ DANGER!



Generator power voltage is now supplied to the transfer switch. Contact with live transfer switch parts will result in dangerous and possibly fatal electrical shock.

10. Connect an accurate AC voltmeter and a frequency meter across transfer switch terminal lugs E1, E2, and E3 (if three phase).
11. Successively connect the AC voltmeter test leads across terminal lugs E1, E2, and E3 (if three phase) and neutral; then across E2 and neutral. Voltage reading in each case should match utility voltage reading. If system is three phase, verify that generator phase rotation matches utility phase rotation.
12. Move the Main Circuit Breaker switch on the generator control panel down to the OFF (Open) position.
13. Press OFF on the control panel to shut the engine down.

⚠ DANGER!



Do not proceed unless certain that generator AC voltage and frequency are correct and within the stated limits.

3.7.4— Test Generator Under Load

To test the generator set with electrical loads applied, proceed as follows:

1. Verify that the generator is OFF. A red LED on the control panel illuminates to confirm that the system is in the OFF mode.
2. Turn OFF all breakers/electrical loads that will be powered by the generator.
3. Turn OFF the utility power supply to the transfer switch, using the means provided (such as a utility main line circuit breaker).

⚠ DANGER!



Do not attempt manual transfer switch operation until all power voltage supplies to the transfer switch have been positively turned off. Failure to turn off all power voltage supplies will result in extremely hazardous and possibly fatal electrical shock.

4. Manually set the transfer switch to the STANDBY position, i.e., load terminals connected to the generator's E1, E2, and E3 (if three phase) terminals.
5. Press MANUAL on the control panel. The engine will crank and start.
6. Allow the engine to warm up for a few minutes.
7. Move the Main Circuit Breaker switch on the generator control panel up to the ON (or closed) position. The switch is now powered by the standby generator.
8. Turn ON the circuit breaker/electrical loads powered by the generator.
9. Connect a calibrated AC voltmeter and a frequency meter across terminal lugs E1, E2, and E3 (if three phase). Voltage should be approximately unit rated voltage. Check with clamp on amp meter to ensure unit is not overloaded.
10. Let the generator run at full rated load for 20-30 minutes. Listen for unusual noises, vibration or other indications of abnormal operation. Check for oil leaks, evidence of overheating, etc.
11. When testing under load is complete, turn OFF electrical loads.
12. Move the Main Circuit Breaker switch on the generator control panel up to the OFF (or open) position.
13. Allow the engine to run at no-load for 2-5 minutes.
14. Press OFF on the control panel to shut the engine down. A red LED illuminates to confirm that the system is in the OFF mode.

3.7.5— Check Automatic Operation

To check the system for proper automatic operation, proceed as follows:

1. Verify that the generator is OFF. A red LED on the control panel illuminates to confirm that the system is in the OFF mode.
2. Install front cover of the transfer switch.
3. Turn ON the utility power supply to the transfer switch, using the means provided (such as a utility main line circuit breaker).

NOTE: Transfer Switch will transfer back to utility position.

4. Move the Main Circuit Breaker switch on the generator control panel up to the ON (or closed) position.
5. Press AUTO on the control panel. The system is now ready for automatic operation.
6. Turn OFF the utility power supply to the transfer switch.

With the generator ready for automatic operation, the engine will crank and start when the utility source power is turned OFF after a 10 second delay (factory default setting). After starting, the transfer switch connects load circuits to the standby side. Let the system operate through its entire automatic sequence of operation.

With the generator running and loads powered by generator AC output, turn ON the utility power supply to the transfer switch. The system transfers back to the utility position and then runs through the cool down cycle and shuts down.

3.8 — Final Instructions

1. Use key to install left and right side access panels.
2. Close viewing window.

NOTE: Obtain viewing window hasp, if not installed. See Figure 3-6. With the retaining tab at the bottom, insert square end of hasp into slot below viewing window. Push on hasp until it snaps in place. Gently pull on hasp to verify that it will not come free.

3. Install customer supplied padlock into hasp.



Figure 3-6. Install Viewing Window Hasp

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Section 4 Operation

4.1 — Control Panel

NOTE: The control panel is intended for use by qualified service personnel only.

The control panel is located behind the viewing window at the rear of the unit.

⚠ WARNING!



With the control panel set to **AUTO**, the engine may crank and start at any time without warning. Such automatic starting occurs during the programmed exercise cycle or when utility power source voltage drops below the configured level. To prevent possible injury that might occur during sudden starts, always set the control panel to **OFF**, remove the negative battery cable from the negative battery post, and remove the 7.5 amp fuse before working on or around the generator or transfer switch. For added security, place a **DO NOT OPERATE** tag or placard on both the control panel and transfer switch.

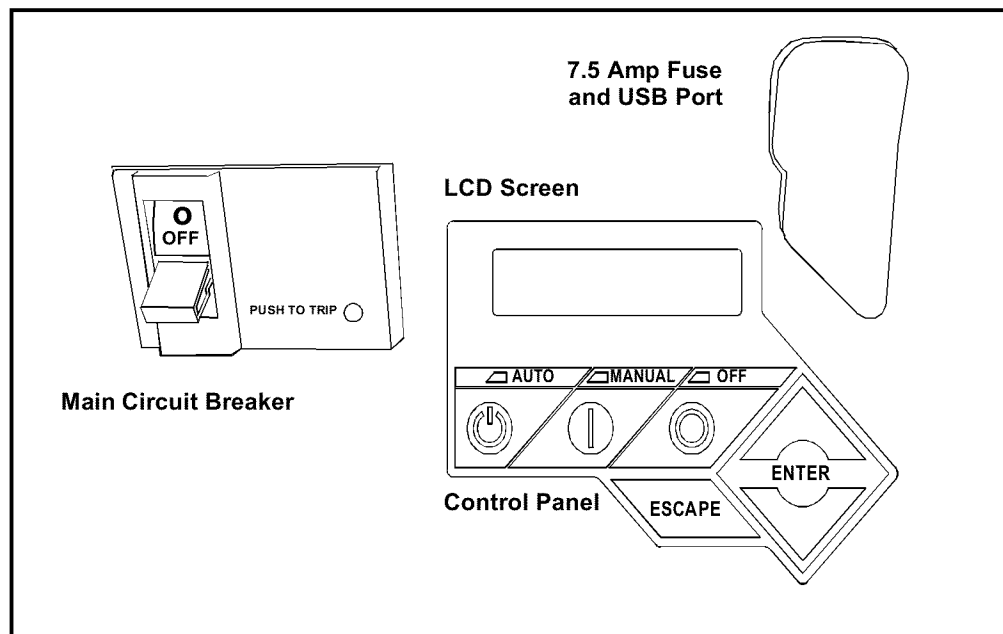


Figure 4-1. Generator Control Panel

4.2 — Auto/Manual/Off

Feature	Description
AUTO	Press to activate fully automatic operation. Green LED illuminates to confirm that system is in AUTO mode. Transfer to standby power occurs if utility power fails. Functionality of exercise timer is enabled, if set.
MANUAL	Press to crank and start engine. Blue LED illuminates to confirm that system is in MANUAL mode. Transfer to standby power occurs if utility power fails. Functionality of exercise timer is disabled.
OFF	Press to shut down engine, if running. Red LED illuminates to confirm that system is in OFF mode. Transfer to standby power does not occur if utility power fails.

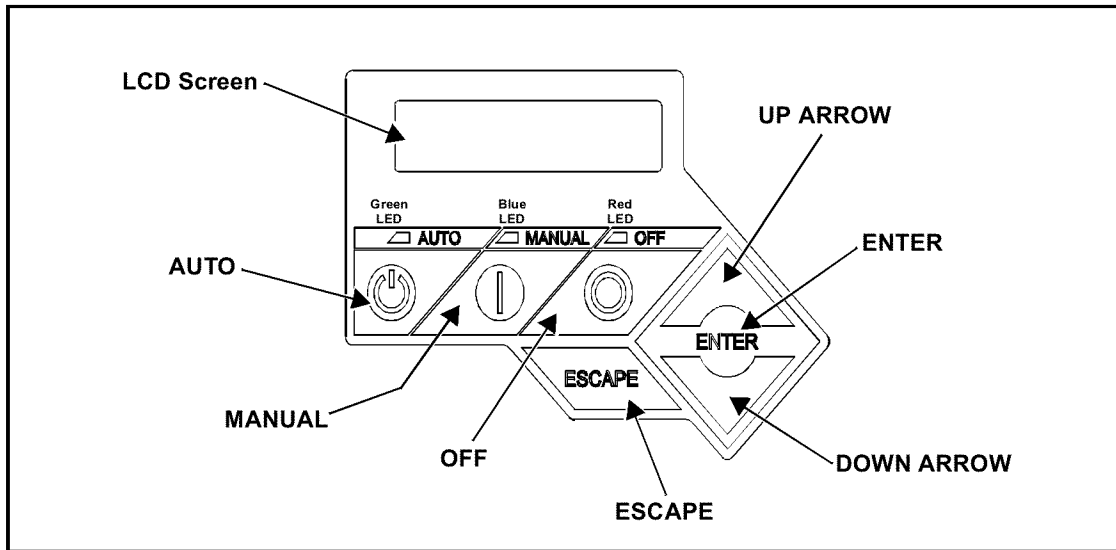


Figure 4-2. Control Panel and LCD Screen

4.3 — Menu Navigation

See Figure 4-3.

Feature	Description
System Menus	
HOME Screen	The system returns to the Home screen if the control panel is not used for five minutes. The screen normally displays a Status message, such as Ready to Run (Auto mode) or Switched to OFF (Off mode), and the total Hours of Protection. If an active alarm/warning condition occurs, the associated Alarm/Warning message is displayed. To clear the Alarm/Warning message, press OFF on the control panel followed by ENTER. In the event of multiple Alarms/Warnings, the next message is then displayed. The highest priority alarm is always displayed first.
Display Backlight	Normally off. If the operator presses any button, the backlight will automatically light and remain on for 30 seconds.
MAIN MENU	Enables the operator to navigate the software using UP ARROW, DOWN ARROW, ENTER and ESCAPE. The Main Menu can be accessed from any sub menu by consecutively pressing ESCAPE. Each time ESCAPE is pressed, the preceding menu is displayed. The Main Menu is reached when the System, Date/Time, Battery, and Sub Menus are displayed.
SUB-MENUS	The Sub-Menus screen includes HISTORY, MAINT, EDIT, AND DEALER menus.
HISTORY	The HISTORY screen includes an Alarm Log and Run Log. The Alarm Log displays the last 50 alarm events. The Run Log displays the last 50 operational events.
MAINTENANCE MENU	Includes Run Hours, Maintenance Log, and Scheduled. Run Hours displays cumulative hours on engine. Maintenance Log displays the last service warnings and service completions. Scheduled displays when the next scheduled maintenance interval warning will occur.
EDIT MENU	Includes Language, Current Date/Time, Exercise Settings, Firmware Update, Startup Delay, and Warmup Time. All of these settings are adjustable without a password.
DEALER MENU	Includes settings that are password protected and can be adjusted by an Independent Authorized Service Dealer during installation or a service visit.

Feature	Description
Navigation	
ESCAPE	Used to abort a routine or back up to the preceding menu.
ENTER	Used to make a selection or save an entry.
UP ARROW DOWN ARROW	Used to move forward or backward from menu to menu or to scroll forward or backward (increment or decrement) through available selections.
NOTE: Pressing the control panel illuminates the backlight for 30 seconds. The backlight also illuminates for 30 seconds whenever an active Alarm/Warning message is displayed.	

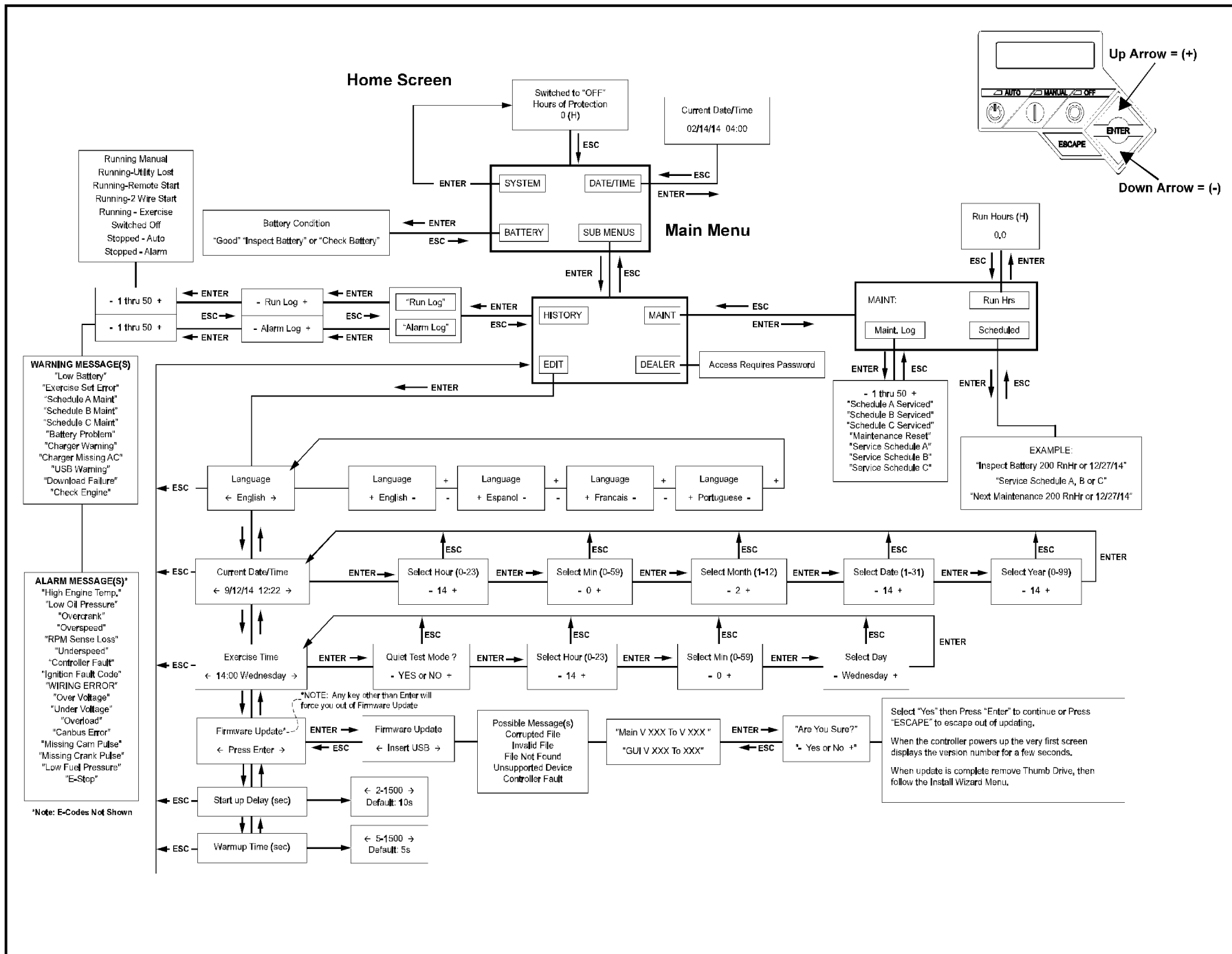


Figure 4-3. Navigation Menu

4.4 — Alarm/Warning Conditions

The owner/operator is alerted to Alarm and/or Warning conditions via the control panel LCD screen. All Alarm conditions cause the generator to shut down. The Warning messages alert the operator to conditions that do not disable the unit or require immediate correction.

The possible Alarm/Warning messages are listed below.

Alarm Messages

- High Engine Temperature
- Low Oil Pressure
- Overcrank
- Overspeed
- RPM Sense Loss
- Underspeed
- Controller Fault
- Ignition Fault Code
- WIRING ERROR
- Over Voltage
- Under Voltage
- Overload
- Canbus Error
- Missing Cam Pulse
- Missing Crank Pulse
- Low Fuel Pressure
- E-Stop

Warning Messages

- Low Battery
- Exercise Set Error
- Schedule A Maintenance
- Schedule B Maintenance
- Schedule C Maintenance
- Battery Problem
- Charger Warning
- Charger Missing AC
- USB Warning
- Download Failure
- Check Engine

NOTE: Unless properly trained to correct and clear Alarm/Warning conditions, contact an Authorized Dealer or trained service technician.

4.5 — Change Time and Date

To change the time and date after activation, see the Navigation Menu in Figure 4-3. If power is lost (battery is disconnected/reconnected, control panel fuse is removed/installed, etc.), the display automatically prompts the user for the Time and Date. All other information is retained in memory.

4.6 — Programmable Timers

4.6.1— Dealer Programmable

4.6.1.1—Exercise Time

A programmable exercise time is provided. In the AUTO mode, the engine starts and runs once each week at the time and day specified. During the exercise cycle, the unit runs approximately 12 minutes and then shuts down. Transfer of loads to the generator does not occur unless utility power fails.

NOTE: A Dealer password is required to change the duration of Exercise Cycle.

4.6.2— User Programmable

4.6.2.1—Start-Up Delay Timer

A programmable line interrupt delay (or Start-Up Delay) timer is provided. When utility voltage fails (falls below 60% of nominal), the start-up delay timer is started. If the voltage rises above the Utility Volts Low threshold, the timer is reset. If the utility voltage remains below the threshold during the duration of the timer, the unit cranks and starts.

NOTE: The factory default setting is five seconds, but is adjustable from 2 to 1500 seconds.

4.6.2.2—Warm-Up Delay Timer

A programmable Warm-Up Delay timer is provided. As soon as the generator starts, the warm-up timer is started. When the warm-up timer expires, the control transfers load to the generator (through the transfer switch) if the utility voltage is less than 80% of nominal. If utility voltage is greater than the threshold at expiration of the warm-up time, the load is **not** transferred to the generator and a cool-down period begins. At the end of the cool-down period, the generator stops.

NOTE: The factory default setting is five seconds, but is adjustable from 5 to 1500 seconds.

4.7 — USB Port for Firmware Updates

A USB port is located beneath the rubber flap on the control panel, and is provided for firmware updates. Firmware updates must be performed by an Independent Authorized Service Dealer.

NOTE: The USB port is intended for use with a USB thumb drive only. The USB port is not intended for charging devices such as phones or laptops. Do not connect any consumer electronics to the USB port.

4.8 — Battery Charger

NOTE: The battery charger is integrated into the control panel module.

The battery charger ensures:

- Output is continually optimized to promote maximum battery life.
- Charging levels are safe.

NOTE: A warning message is displayed on the LCD screen when the battery requires service.

4.9 — Transfer Switch Automatic Operation

In AUTO, the generator starts automatically when utility source voltage drops below the preset level. Once the unit starts, loads are transferred to the standby power source.

To select automatic operation:

1. Verify that the transfer switch main contacts are set to the UTILITY position (loads connected to the utility power source).
2. Verify that normal UTILITY power source voltage is available to transfer switch terminal lugs N1, N2 and N3 (if three phase).
3. Move the Main Circuit Breaker switch on the control panel up to the ON (Closed) position.
4. Press AUTO on the control panel. A green LED illuminates to confirm that the system is in the AUTO mode.

4.9.1— Automatic Sequence of Operation

4.9.1.1—Utility Failure

If the control panel is set to AUTO when the utility power fails, a ten second Start-Up Delay timer is started (user programmable). If utility power is still absent when the time expires, the engine cranks and starts.

Once started, a **five** second engine Warm-Up Delay timer starts (user programmable). When the time has elapsed, the load is transferred to the generator. If utility power is restored (above 90% of nominal, dealer programmable) between the time the engine is first started and expiration of the warm-up time, the controller completes the start cycle and then runs through its normal cool-down cycle (while the load remains on the utility source throughout the episode).

4.9.1.2—Cranking

The cyclic cranking is controlled as follows:

Fifteen (15) seconds crank, seven (7) seconds rest, seven (7) seconds crank, seven (7) seconds rest; this sequence is repeated for a total of six (6) crank cycles.

4.9.1.3—Load Transfer

With the generator running, the transfer of load is dependent upon the operating mode as follows:

AUTO	<ul style="list-style-type: none"> Starts and runs if utility power fails (falls below 60% of nominal) for five consecutive seconds (adjustable). Starts a five second (adjustable) engine warm-up timer. Does not execute transfer if utility power returns before expiration of warm-up timer (but finishes the warm-up and cool-down cycles). Transfers back to utility once utility power returns (above 80% of nominal) for fifteen consecutive seconds. Only shuts down if OFF is pressed or an alarm shutdown occurs. Once utility power returns, starts a cool-down cycle before it shuts down. <p>NOTE: Cool-down cycle is five minutes if turbocharger equipped, one minute if naturally aspirated.</p>
	EXERCISE
	<ul style="list-style-type: none"> Only works in AUTO mode. Does not exercise if generator is already running in AUTO. During exercise cycle, transfers only if utility power fails for ten consecutive seconds.
MANUAL	<ul style="list-style-type: none"> Engine cranks and runs even if utility power is present, but does not transfer to generator. Transfers to generator if utility fails (falls below 60% of nominal) for ten consecutive seconds. Transfers back to utility when utility returns for fifteen consecutive seconds. The engine continues to run until the AUTO or OFF key is pressed.

4.10 — Transfer Switch Manual Operation

⚠ DANGER!



DO NOT attempt to activate the transfer switch manually until all power voltage supplies to the switch have been completely turned off. Failure to turn off all power voltage supplies may result in extremely hazardous and possibly fatal electrical shock.

Prior to automatic operation, manually exercise the transfer switch to verify that there is no binding or interference with proper operation of the mechanism. Manual operation of the transfer switch is required if automatic operation fails.

IMPORTANT NOTE: Always use the applicable transfer switch owner's manual for actual manual transfer switch operation instructions. The information presented here describes a transfer switch, which is not used for three phase applications. See specific manual for three phase transfer switch.

4.10.1— Transfer to Generator Power

When utility power fails, manually transfer to standby power and start the generator as follows:

1. Press OFF on the control panel. A red LED illuminates to confirm that the system is in the OFF mode.
2. Move the Main Circuit Breaker switch down to the OFF (Open) position.
3. Turn off the utility power supply to the transfer switch using the means provided (such as a utility main line circuit breaker).
4. Use the manual transfer handle inside the transfer switch to move the main contacts to the STANDBY position (loads connected to the standby power source).
5. Press MANUAL on the control panel. The engine cranks and starts.
6. Allow the engine to run for two minutes to bring it up to normal operating temperature.
7. Move the Main Circuit Breaker switch up to the ON (Closed) position.

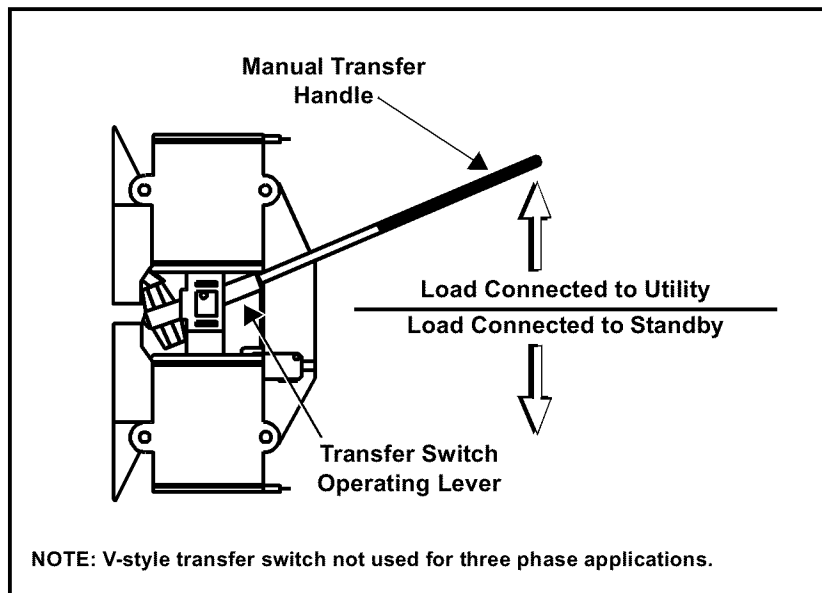


Figure 4-4. Manual Transfer Switch Operation (Typical)

4.10.2— Transfer Back to Utility Power

When utility power is restored, manually transfer back to utility power and shut down the generator as follows:

NOTE: Verify that utility voltage has returned and is at the proper value.

1. Move the Main Circuit Breaker switch down to the OFF (Open) position.
2. Allow the engine to run for two minutes at no-load to bring it up to normal operating temperature.
3. Press OFF on the control panel to shut down the engine.
4. Verify that utility power supply to the transfer switch is turned off.
5. Use the manual transfer handle inside the transfer switch to move the main contacts to the UTILITY position (loads connected to the utility power source).
6. Turn on the utility power supply to the transfer switch using the means provided.
7. Press AUTO on the control panel. A green LED illuminates to confirm that the system is in the AUTO mode.

Section 5 Maintenance

5.1 — Component Locations

The side of the enclosure with the viewing window is identified as the rear of the generator set. The right and left sides are identified by standing at the rear and looking towards the front of the unit.

NOTE: The 2.4L (32 kW) unit is depicted in the artwork used in this manual. The location and appearance of some components may vary between engine models.

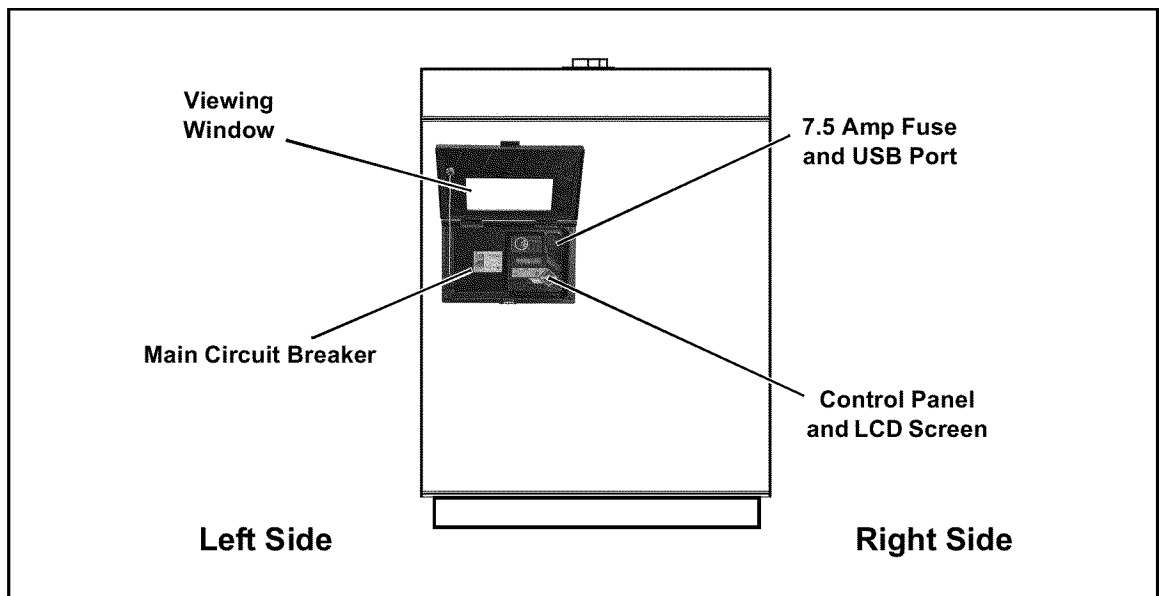


Figure 5-1. Rear View

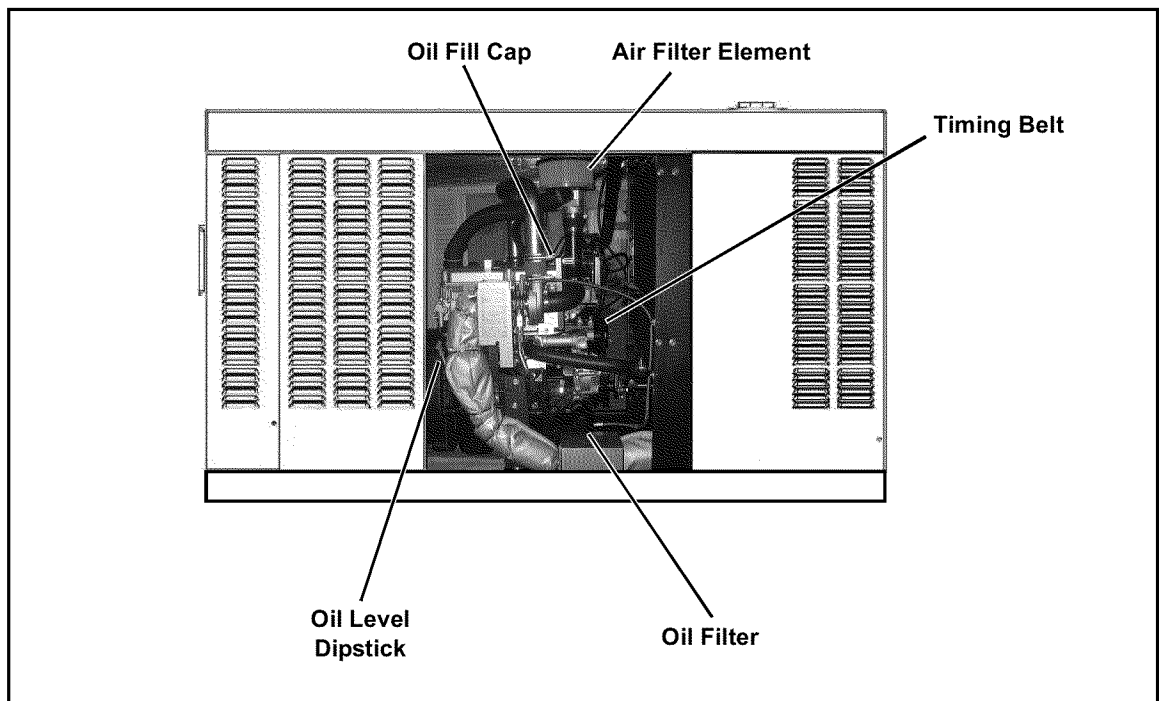


Figure 5-2. Right Side View

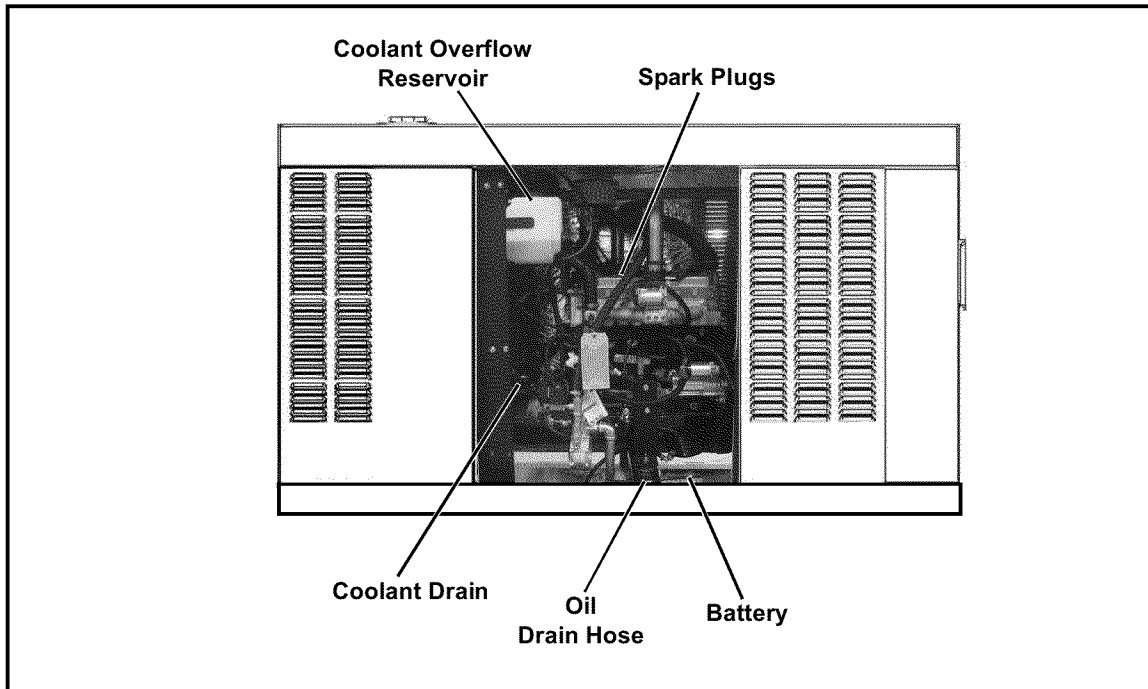


Figure 5-3. Left Side View

NOTE: All normal maintenance and service items are easily accessible for consumer convenience. Wherever possible, touch points are colored orange to provide for quick and easy recognition.

5.2 — Access Panels

Access panels are located at both the left and right sides of the enclosure.

5.2.1— Removal

1. Insert key into latch and rotate counterclockwise 1/2 turn. See Figure 5-4.
2. Raise panel using thumb latch.

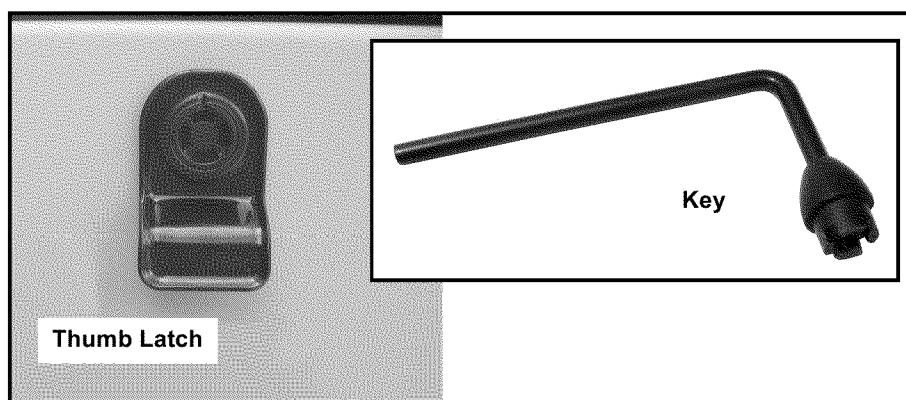


Figure 5-4. Access Panel Key

5.2.2— Installation

1. Lower panel into position using thumb latch.
2. Insert key into latch and rotate clockwise 1/2 turn.

5.3 — Service Maintenance Intervals

NOTE: Use only Genuine Generac parts to ensure warranty coverage.

⚠ CAUTION!



All generator service must be performed by an authorized service provider or a qualified service personnel only.

It is important to perform all maintenance at the interval specified in the Service Maintenance Schedule. This ensures safe and proper operation, as well as compliance with applicable emissions standards. Critical emissions maintenance must be performed for the Emissions Warranty to remain valid. Service and repairs may be performed by an authorized service provider, any qualified service technician, or repair shop.

Observe the maintenance tasks and intervals shown in the table below.

Service	30 Hours Engine Break In	Daily If Running Continuously	Schedule A Every Year or 125 Hours	Schedule B Every 2 Years or 250 Hours	Schedule C Every 1000 Hours
Check Enclosure Louvers		○	○	○	○
Check Fuel Lines		○	○	○	○
Check Coolant Level and Hoses		○	○	○	○
Check Radiator for Clogging		○	○	○	○
Check Lubricating Oil Level and Drain Hose		○	○	○	○
Replace Lubricating Oil and Oil Filter	○		○	○	○
Check Battery Condition/Fluid Level			○	○	○
Check/Adjust Accessory/Drive Belt Tension			○	○	○
Replace Air Filter Element			○	○	○
Drain/Flush Coolant System				○	○
Clean/Gap/Replace Spark Plugs				○	○
Replace Timing Belt (2.4L Engines Only)					○
Tighten Critical Fasteners					○

NOTE: If the unit reaches a Schedule A or Schedule B maintenance interval with 900 to 999 total hours, have an authorized service provider perform the Schedule C maintenance tasks as well (and reset the A-B-C/Year maintenance schedule counter).

5.4 — Remove From Service

To ensure safety, follow the steps below prior to inspection, maintenance or service.

IMPORTANT NOTE: If currently experiencing a utility outage, see Subsection 6.3 —Removal From Service During Utility Outages for special instructions.

1. Open the viewing window. See Subsection 3.4 —Open Viewing Window.
2. Move the Main Circuit Breaker switch down to the OFF (Open) position. See A of Figure 5-5.
3. Press OFF on the control panel. A red LED illuminates to confirm that the system is in the OFF mode. See B of Figure 5-5.
4. Remove T1 fuse from transfer switch.
5. Pull up rubber flap covering fuse holder and remove 7.5 amp fuse. See C of Figure 5-5.
6. Disconnect NEGATIVE battery cable.
7. Place a DO NOT OPERATE tag or placard on both the control panel and transfer switch.
8. If the unit has been running, wait five minutes for the engine to cool.

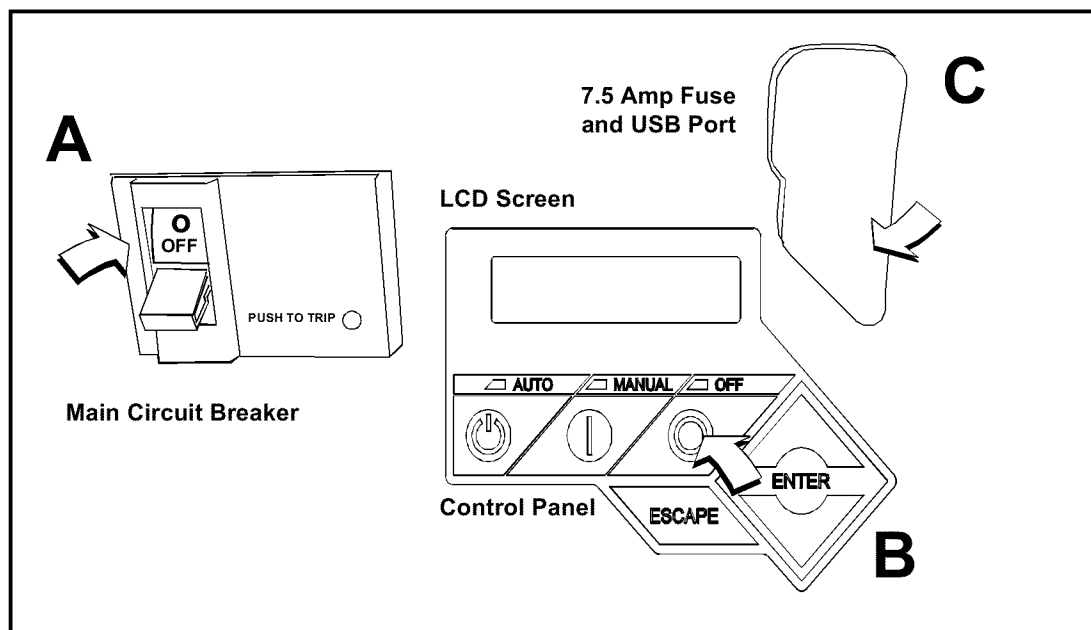


Figure 5-5. Generator Control Panel

5.5 — 30 Hour Break-In

Perform the following task:

- Replace Lubricating Oil and Oil Filter

NOTE: See Subsection 5.7.8 under Schedule A Maintenance.

5.6 — Daily Maintenance

Perform the following tasks:

- Check Enclosure Louvers
- Check Radiator for Clogging
- Check Fuel Lines
- Check Lubricating Oil Level and Drain Hose
- Check Coolant Level and Hoses

NOTE: See Subsection 5.7.3 through Subsection 5.7.7 under Schedule A Maintenance.

5.7 — Schedule A Maintenance

NOTE: Perform Schedule A maintenance once each year or after 125 hours of service, whichever comes first.

NOTE: The 2.4L (32 kW) unit is depicted in the artwork used in this manual. For the general location of components in all other models, see Subsection 5.7.1—Schedule A Maintenance Item Locations.

5.7.1— Schedule A Maintenance Item Locations

NOTE: The side of the enclosure with the viewing window is identified as the rear of the generator set. The right and left sides are identified by standing at the rear and looking towards the front of the unit.

Model	22/27 kW	25/30 kW	32/38 kW	36/45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	2.4L	5.4L	2.4L
Coolant Overflow Reservoir	L	L	L	L	L	L
Oil Dipstick	R	R	R	R	L	R
Oil Drain Hose	L	R	L	L	R	L
Oil Filter	R	R	R	R	L	R
Oil Fill Cap	E	E	E	E	R	E
Oil Supply Tank Fill Cap	-	-	-	TL	-	TL
Battery	L	R	L	L	R	L
Fan Belt	E	E	E	E	E	E
Air Filter Element	L	R	L	L	E	L
R = Right Side L = Left Side E = Either Side T = Top - = Not Applicable						

5.7.2— Preliminary Instructions

1. See Subsection 5.4 —Remove From Service.
2. Remove left and right side access panels. See Subsection 5.2 —Access Panels.
3. Remove battery negative cable (black) from battery negative (-) terminal.

5.7.3— Check Enclosure Louvers

1. Verify that intake and exhaust louvers and openings are clean and unobstructed. Keep clear of leaves, grass, snow, and debris.
2. Wipe exterior surfaces clean using a damp cloth.
3. Loosen dirt, oil, etc. with a soft bristle brush.
4. Remove loose dirt and debris using a vacuum cleaner, or low pressure compressed air (not exceeding 25 psi).

NOTE: Periodically wash and wax enclosure using automotive type products. Frequent washing is recommended in salt water/coastal areas.

5.7.4— Check Fuel Lines

1. Check fuel lines for leaks. Tighten fittings and clamps, if necessary.
2. Check fuel lines for nicks, dents, kinks or other damage. Replace as necessary.

5.7.5— Check Coolant Level and Hoses

⚠ WARNING!



Do not add coolant when the engine is hot. Steam and scalding fluids can cause severe burns.

1. Verify that the coolant level is between the HOT and COLD marks on the overflow reservoir. See Figure 5-6.

NOTE: Coolant expands when hot, so the level may be higher than the HOT mark. Do not add coolant higher than the HOT mark.

2. If the coolant level is below the COLD mark, remove fill cap from overflow reservoir and add coolant. See Subsection 2.5 —Coolant Water Treatment.
3. Check coolant hoses for leaks. Tighten hose clamps, if necessary.
4. Check hoses for nicks, cuts, tears or general deterioration. Replace as necessary.

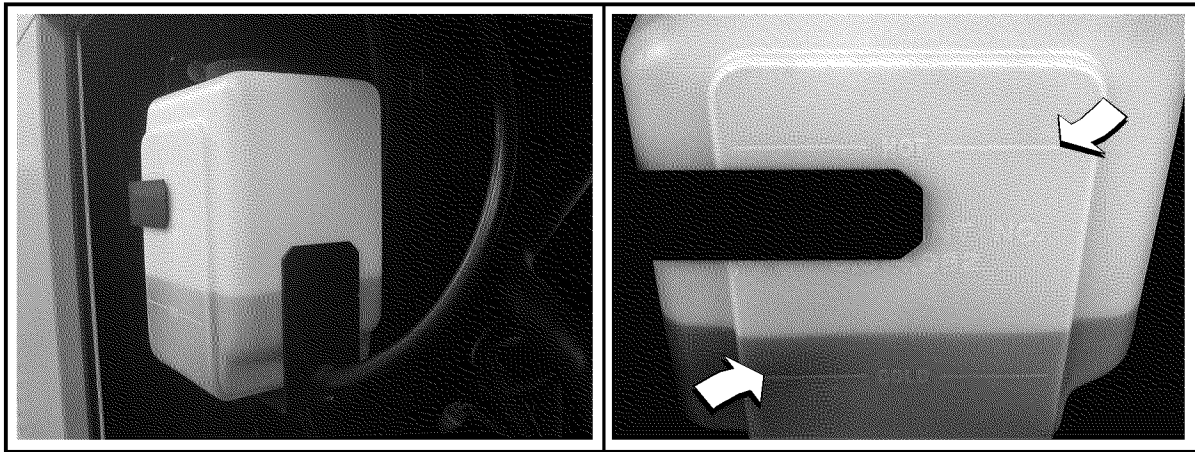


Figure 5-6. Coolant Overflow Reservoir

5.7.6— Check Radiator for Clogging

1. Direct beam of flashlight into enclosure to inspect the radiator fins.
2. Look for debris, accumulations of dirt or other deposits.
3. Carefully remove any debris from radiator fins. Use warm soapy water and a soft bristled brush to remove dirt and other deposits, if necessary.

5.7.7— Check Lubricating Oil Level and Drain Hose

NOTE: If changing engine lubricating oil and filter, see Subsection 5.7. 8—Replace Lubricating Oil and Oil Filter.

1. If the engine was running, allow at least 10 minutes to elapse to ensure that the oil has fully drained into the oil pan.

NOTE: The most accurate oil level readings are obtained when the engine is cold.

2. Remove the dipstick and wipe dry with a clean, lint free cloth. See B of Figure 5-7
3. Slowly insert the dipstick into the dipstick tube.
4. Verify that the dipstick is fully seated in the dipstick tube.

NOTE: Some dipsticks require more effort to fully seat than others.

5. Allow at least 10 seconds to elapse.
6. Slowly remove the dipstick.

7. Verify that the oil level is at or near the FULL mark. Add oil as necessary. See A of Figure 5-7

NOTE: Observe the oil level on both sides of the dipstick. The lower of the two readings is the correct oil level measurement.

8. If necessary, remove the oil fill cap and slowly add oil. **Do not fill above “FULL” mark on dipstick .**
9. Install dipstick and oil fill cap.
10. Install battery negative cable (black) onto battery negative (-) terminal.
11. Pull up rubber flap covering fuse holder and install 7.5 amp fuse.
12. Press MANUAL on the control panel to start the engine.
13. Allow the engine to run for one minute.
14. Press OFF on the control panel to shut down the engine. A red LED illuminates to confirm that the system is in the OFF mode.
15. Return to step 1.

NOTE: The most common reasons for inaccurate oil level readings are:

- Reading the dipstick before the oil has fully drained into the oil pan.
- Inserting and removing the dipstick too quickly.
- Reading the dipstick when it has not been fully seated in the dipstick tube.
- Reading only the high level side of the dipstick.

16. Check oil drain hose for leaks. Check hose for nicks, cuts, tears or general deterioration. Replace as necessary.
17. Pull up rubber flap covering fuse holder and remove 7.5 amp fuse.
18. Remove battery negative cable (black) from battery negative (-) terminal.

NOTE: On 36 kW, 45 kW, and 60 kW models, check the level of oil in the clean oil supply tank. Add clean oil as necessary. For more information, see Subsection 5.11 —Lube Oil Maintainer System.

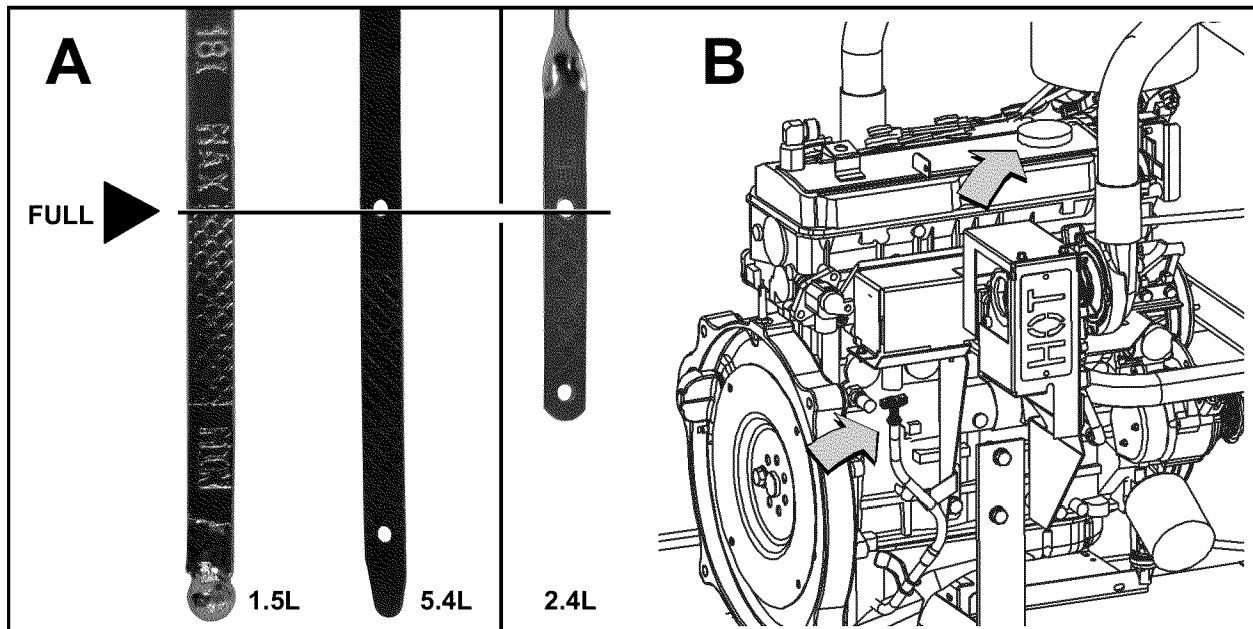


Figure 5-7. Oil Level Dipstick and Oil Fill Cap

5.7.8— Replace Lubricating Oil and Oil Filter

NOTE: On 36 kW, 45 kW, and 60 kW models, close shutoff valve to avoid draining the oil supply tank with the crankcase oil. For more information, see Subsection 5.11 —Lube Oil Maintainer System.

1. Remove oil drain hose from holding clamp. See A of Figure 5-8

2. Use one wrench to hold hex on hose fitting (to prevent rotation), and use second wrench to remove drain plug.

⚠ WARNING!



Hot oil may cause burns. Allow engine to cool before draining oil. Avoid prolonged or repeated skin exposure with used oil. Thoroughly wash exposed areas with soap

3. Drain oil into a suitable container.
4. Install drain plug onto end of oil drain hose.
5. Install oil drain hose into holding clamp.
6. Rotate oil filter counterclockwise to remove from oil filter adapter. See B of Figure 5-8
7. Apply a light coat of clean engine oil to gasket of **new** oil filter.
8. Install oil filter by hand until gasket just contacts oil filter adapter. Tighten oil filter an additional 3/4 to one full turn.
9. Remove fill cap and fill engine with the recommended quantity and type of oil. See S ubsection 2.3 —Engine Oil Recommendations. Crankcase oil capacity is listed below:

Lubrication System Capacity (Oil Pan Including Oil Filter)						
Model	22/27 kW	25-30 kW	32/38 kW	36/45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	2.4L	5.4L	2.4L
4.0 quarts (3.8 liters)	○	○	○	○		
6.0 quarts (5.7 liters)					○	
5.25 quarts (5 liters)						○

10. Install fill cap.
11. Install battery negative cable (black) onto battery negative (-) terminal.
12. Pull up rubber flap covering fuse holder and install 7.5 amp fuse.
13. Press MANUAL on the control panel to start the engine.
14. Allow the engine to run for one minute. Check for leaks while the engine is running.
15. Press OFF on the control panel. A red LED illuminates to confirm that the system is in the OFF mode.
16. Wait ten minutes for the engine to cool and to allow oil to drain back to the oil pan.
17. Check oil level and add oil as necessary. See Subsecti on 5.7.7—Check Lubricating Oil Level and Drain Hose.
18. Install fill cap.

NOTE: On 36 kW, 45 kW, and 60 kW models, open shutoff valve to enable Lube Oil Maintainer System.

NOTE: Dispose of used oil and oil filter at a proper collection center.

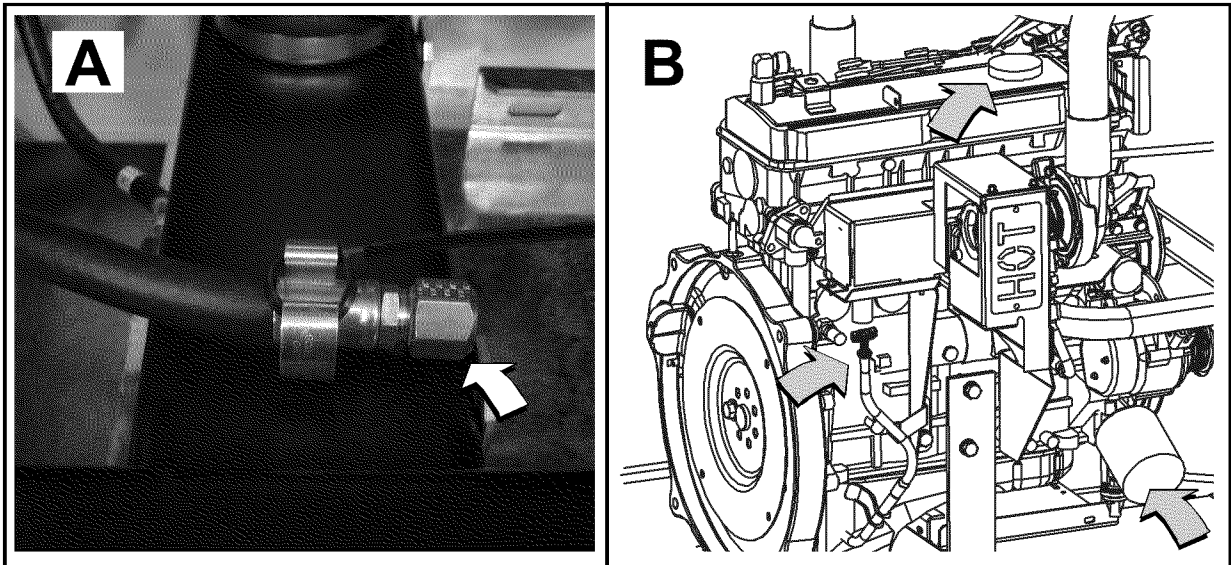


Figure 5-8. Oil Drain Hose, Fill Cap, Dipstick and Filter

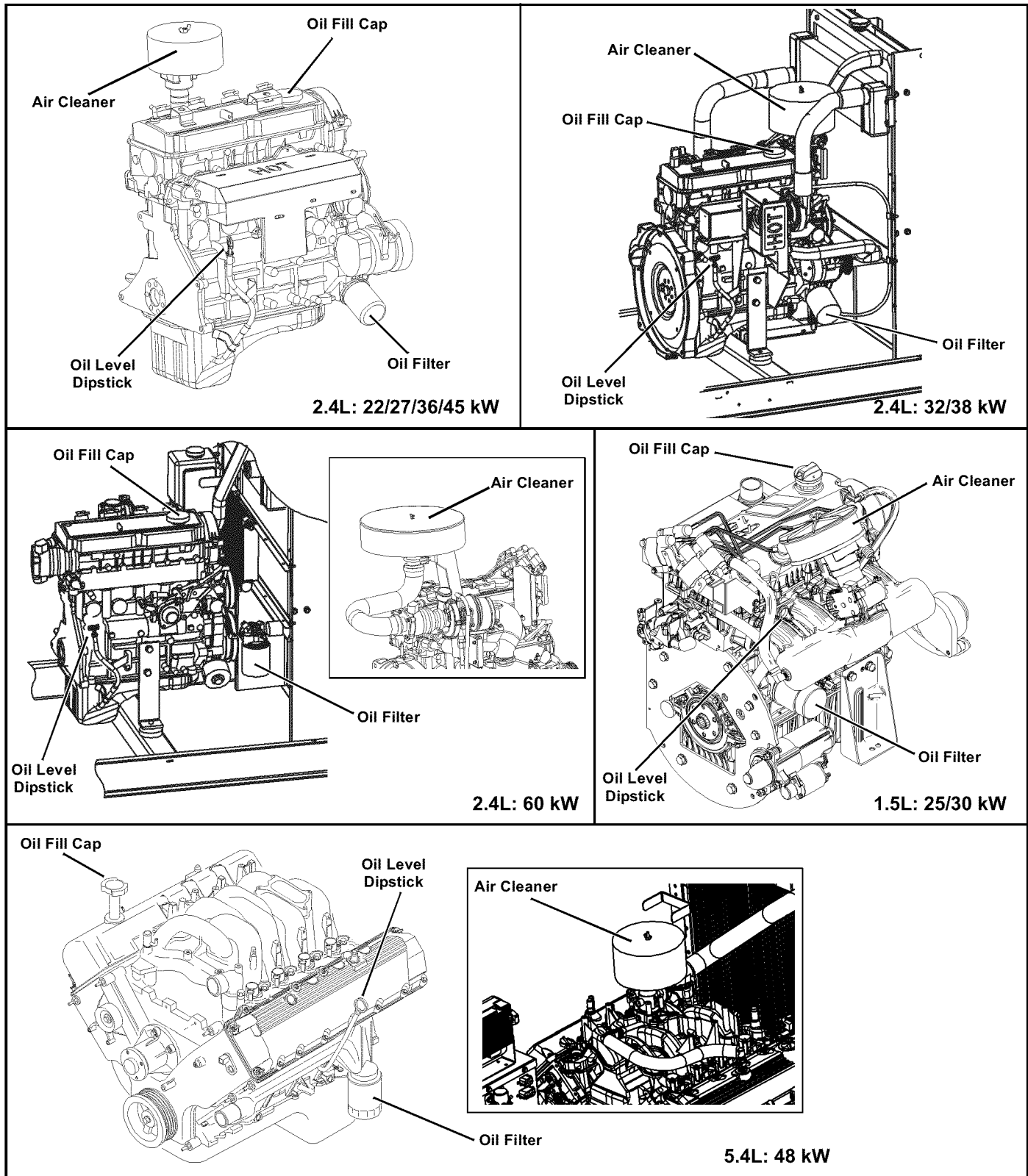


Figure 5-9. Engine Oil and Air Cleaner Maintenance (All Models)

5.7.9— Check Battery Condition/Fluid Level

5.7.9.1— Check Condition and Clean

1. Verify that top of battery is clean and dry. Dirt and electrolyte on top of the battery can cause battery to self-discharge. Clean battery top with a solution of baking soda (sodium bicarbonate) and water (5 teaspoons baking soda per quart or liter of water). When solution stops bubbling, rinse off the battery with clean water.
2. Clean cable clamps and battery terminals using a wire brush or sandpaper to remove any oxidation.
3. Inspect battery screws, clamps and cables for breakage, loose connections and corrosion. Tighten and clean as necessary.
4. Check the battery posts for melting or damage caused by over tightening.
5. Inspect battery for discoloration, raised top or a warped or distorted case, which might indicate that the battery has been frozen, overheated or overcharged.
6. Inspect the battery case for cracks or leaks.
7. Check the battery fluid level of unsealed batteries. See Subsection 5.7.9.2—Check Fluid Level.
8. Check the battery state of charge. See Subsection 5.7.9.3—Check State of Charge.
9. Replace battery if necessary. See Subsection 5.7.9.4—Battery Replacement.

5.7.9.2— Check Fluid Level

Check the fluid level of unsealed batteries. If necessary, fill with distilled water only. DO NOT use tap water.

5.7.9.3— Check State of Charge

Check the state of charge using a Digital Multimeter. Recharge and retest if state of charge is below manufacturer's recommendations. Replace battery if necessary.

5.7.9.4— Battery Replacement

Removal

▲ CAUTION!



Always disconnect the negative battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in serious injury.

1. Remove battery negative cable (black) from battery negative (-) terminal.
2. Remove battery positive cable (red) from battery positive (+) terminal.
3. Install rubber protective cover over battery positive (+) terminal. See A of Figure 5-11
4. Loosen two screws with nylon washers to release battery hold-down clamp from battery tray.
5. Grasp battery strap, and lift battery from battery tray. See B of Figure 5-11
6. Remove rubber protective cover from battery positive (+) terminal.

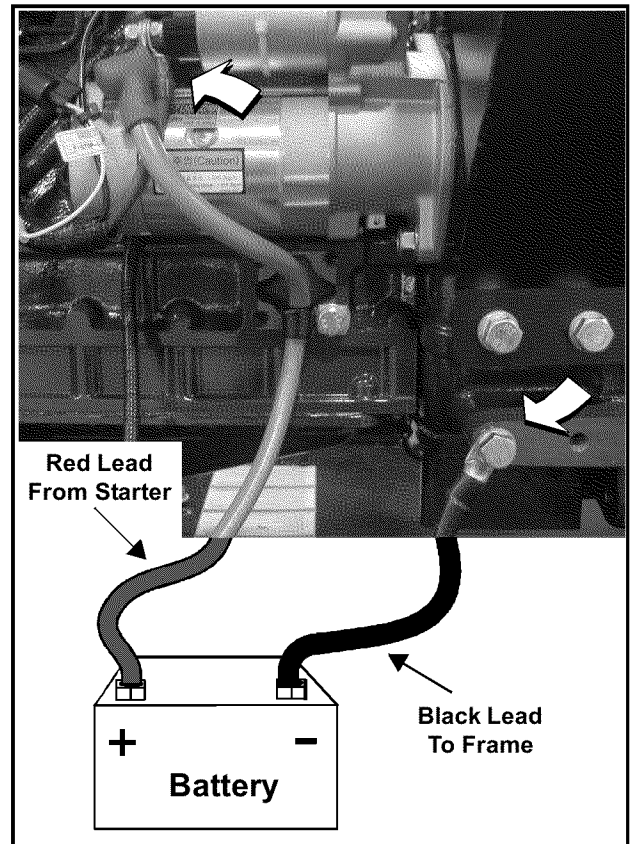


Figure 5-10. Battery Cable Connections

Installation

⚠ CAUTION!

Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in serious injury.

1. Install rubber protective cover over battery positive (+) terminal. See A of Figure 5-11
2. Grasp battery strap and lift battery. See B of Figure 5-11
3. Set battery onto battery tray.
4. Tighten two screws with nylon washers to secure hold-down clamp to battery tray.
5. Remove rubber protective cover from battery positive (+) terminal.
6. Install battery positive cable (red) to battery positive (+) terminal.
7. Install battery negative cable (black) to battery negative (-) terminal.

NOTE: If continuing with Schedule A maintenance procedures, leave the battery negative cable (black) disconnected.

5.7.10— Check and Adjust Accessory/Drive Belt

5.7.10.1— Check

Check the accessory/drive belt condition.

1. Perform visual inspection as follows:
 - Inspect belt for cracks, fraying, excessive wear or other damage.
 - Verify that belt is free of grease and oil. Replace belt if contaminated.

NOTE: Use a solution of soap and warm water to clean pulleys, if necessary. Avoid use of solvents, but if used, always follow by a soap and water wash.

2. Check the fan belt deflection. Adjust the belt deflection as follows:
 - Using a suitable gauge, apply 22 lbs (10 kgf) force midway between the water pump and alternator pulleys. See Figure 5-12

NOTE: 5.4L (48 kW) units are provided with an automatic belt tensioner and do not need adjustment.

- Take note of gauge reading. If belt deflection is not within specification, see S subsection 5.7.10.2—Adjust.

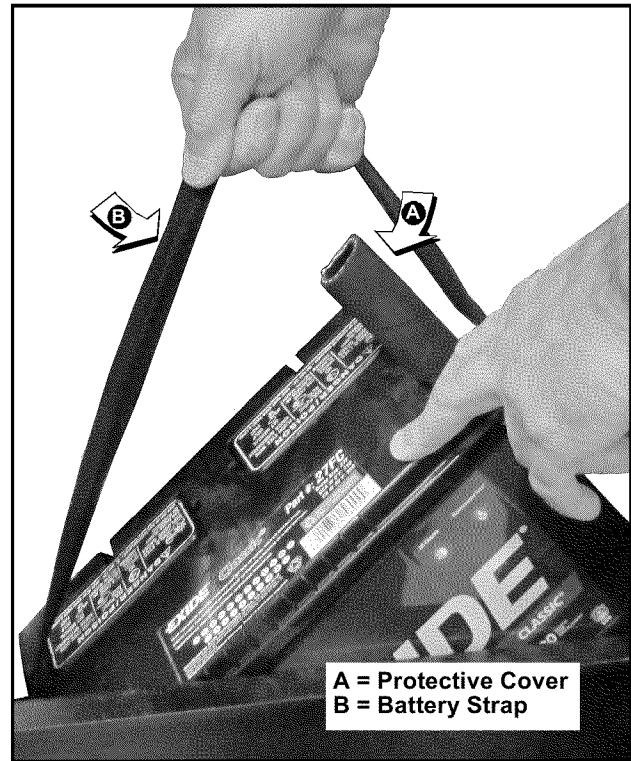


Figure 5-11. Remove/Install Battery

Belt Deflection	English	Metric
	3/8 - 5/8 Inches	7.6 - 12.7 cm

5.7.10.2— Adjust

1. Loosen DC alternator tension bracket screw. Rotate alternator outward to reduce belt deflection, rotate inward to increase belt deflection.
2. Tighten DC alternator tension bracket screw to 17-22 ft-lbs (23-30 N-m).
3. Recheck belt deflection and repeat steps as necessary.

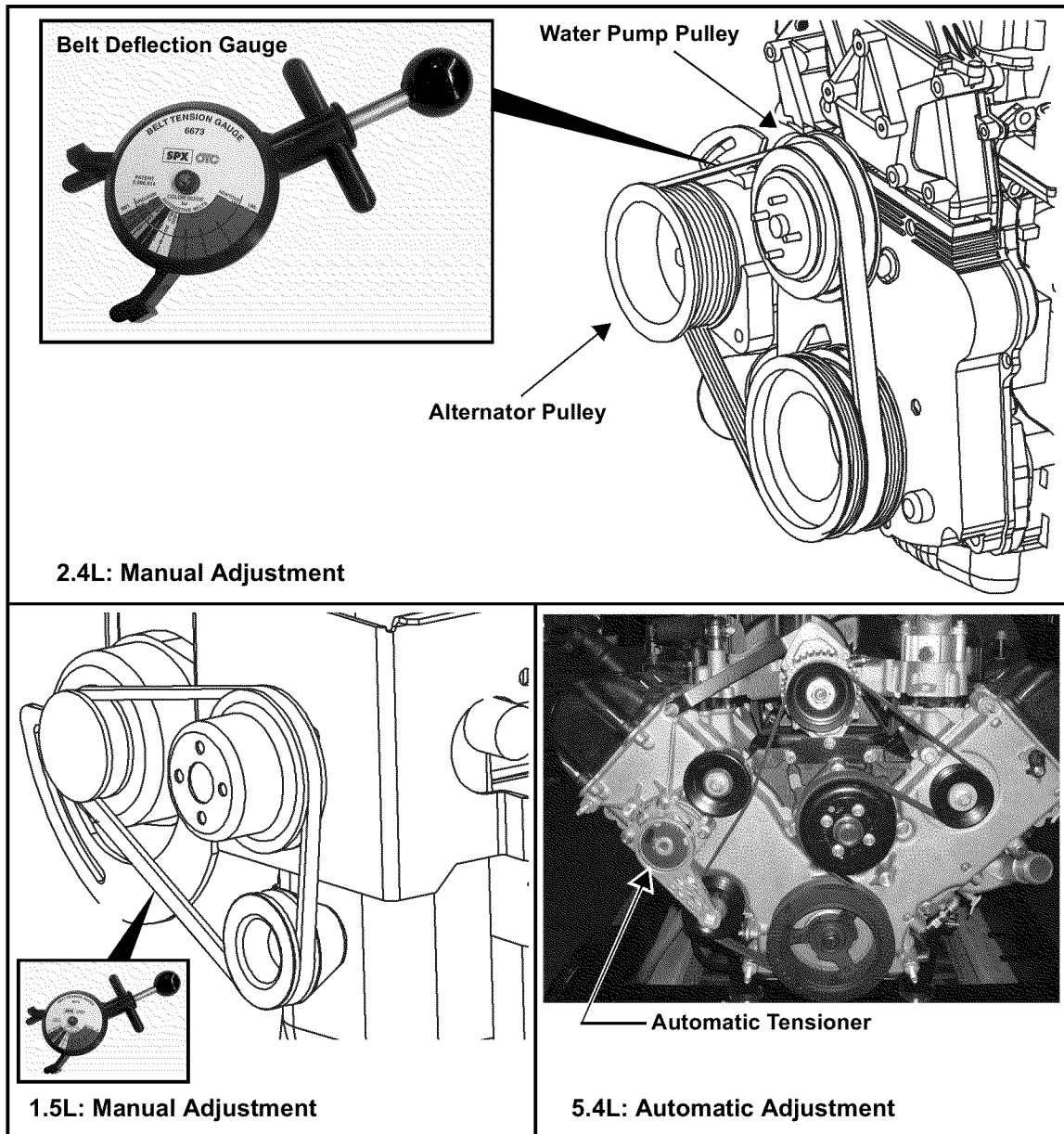


Figure 5-12. Check Accessory/Drive Belt Deflection

5.7.11— Replace Air Filter Element

1. Remove wing nut, lock washer and flat washer from threaded rod to release air cleaner cover. See Figure 5-13
2. Remove the air filter element and discard.
3. Thoroughly clean air cleaner cover of any dust, dirt, or debris.
4. Place **new** air filter element against adapter flange.

NOTE: The air filter element is not directional.

5. Install air cleaner cover over threaded rod. Install flat washer, lock washer and wing nut. Tighten wing nut until snug.

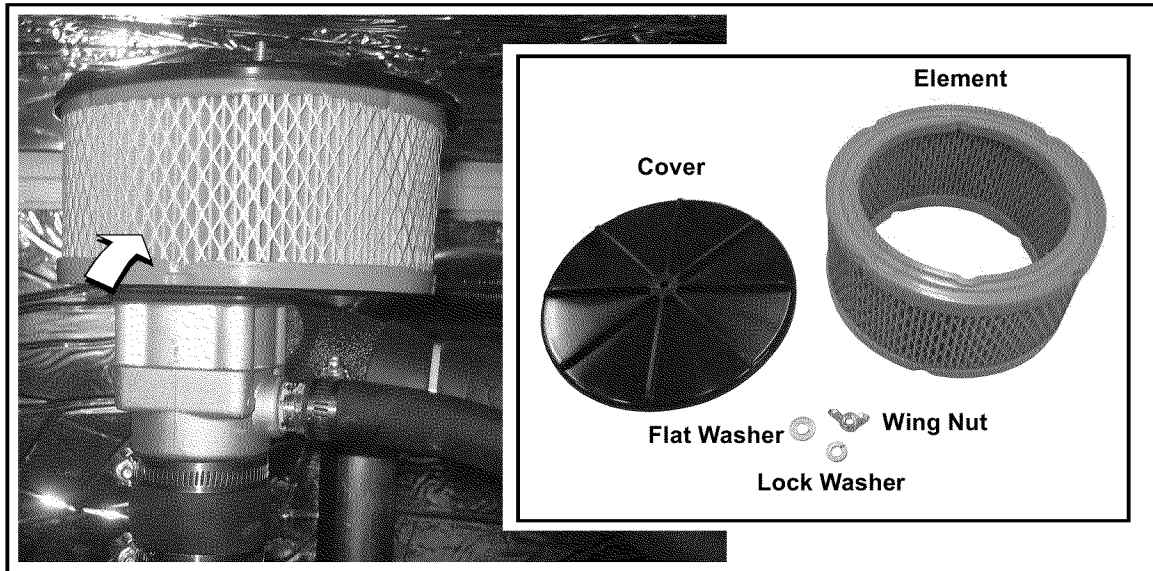


Figure 5-13. Air Cleaner Cover and Filter Element

NOTE: Service kits are available from Independent Authorized Service Dealers.

5.7.12— Final Instructions

If only performing Schedule A maintenance procedures, proceed as follows:

1. Install battery negative cable (black) onto battery negative (-) terminal.
2. Install left and right side access panels. See Subsection 5.2 —Access Panels.
3. See Subsection 5.10 —Return To Service.

5.8 — Schedule B Maintenance

NOTE: Perform Schedule B maintenance every two years or after 250 hours of service, whichever comes first. Before proceeding below, first perform all tasks listed under Schedule A Maintenance.

NOTE: The 2.4L (32 kW) unit is depicted in the artwork used in this manual. For the general location of components in all other models, see Subsection 5.8.1—Schedule B Maintenance Item Locations.

5.8.1— Schedule B Maintenance Item Locations

NOTE: The side of the enclosure with the viewing window is identified as the rear of the generator set. The right and left sides are identified by standing at the rear and looking towards the front of the unit.

Model	22/27 kW	25/30 kW	32/38 kW	36/45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	2.4L	5.4L	2.4L
Coolant Drain Hose	L	R	L	L	R	L
Radiator Fill Cap	T	T	T	T	T	T
Coolant Overflow Reservoir	L	L	L	L	L	L
Spark Plugs	L	R	L	L	B	L
R = Right Side L = Left Side B = Both Sides T = Top						

5.8.2— Drain/Flush Coolant System

1. Disconnect and empty coolant overflow reservoir.
2. Install and connect coolant overflow reservoir.

⚠ WARNING!



Verify that the engine is cool before removing the radiator cap. The cooling system is under pressure, so steam and hot liquid can come out forcefully when the cap is loosened.

3. Rotate and remove plastic cover at top of enclosure.
4. Slowly unscrew radiator cap.
5. Locate drain cock at bottom left side of radiator.

NOTE: If unit is not equipped with drain hose, install suitable length of rubber hose to drain cock.

6. Rotate hex fitting to open drain cock. See A of Figure 5-14
7. Remove coolant drain hose from holding clamp.
8. Use wrench to hold hex on hose fitting (to prevent rotation), and use second wrench to remove drain plug.
9. Drain coolant into a suitable container.
10. Install plug at end of drain hose.
11. Install drain hose in holding clamp.
12. Rotate hex fitting to close radiator drain cock.
13. Obtain the recommended quantity and type of coolant. See Subsection 2.5 —Coolant Water Treatment.

System Coolant Capacity						
Model	22/27 kW	25/30 kW	32/38 kW	36/45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	2.4L	5.4L	2.4L
2.0 gallons (7.6 liters)		○				
2.5 gallons (9.5 liters)	○		○	○		○
3.0 gallons (11.4 liters)					○	

14. Insert funnel into filler neck of radiator. See B of Figure 5-14
15. Slowly pour coolant into filler neck until radiator is full.
16. Install radiator cap.
17. Press MANUAL on the control panel to start the engine. A blue LED illuminates to confirm that the system is in the MANUAL mode.
18. Allow engine to run until the thermostat opens, as indicated by heating of the top radiator hose.
19. Check coolant hoses for leaks. Tighten clamps, if necessary.
20. Press OFF on the control panel to shut the engine down.
21. Wait for the engine to cool.
22. Repeat steps 4-21 to drain and refill cooling system.
23. Slowly unscrew radiator cap. Slowly pour coolant into filler neck until radiator is full.
24. Add coolant to the overflow reservoir. See S subsection 5.7.5—Check Coolant Level and Hoses.
25. Install plastic cover at top of enclosure and rotate until tight.
26. Check hoses for nicks, cuts, tears or general deterioration. Replace as necessary.

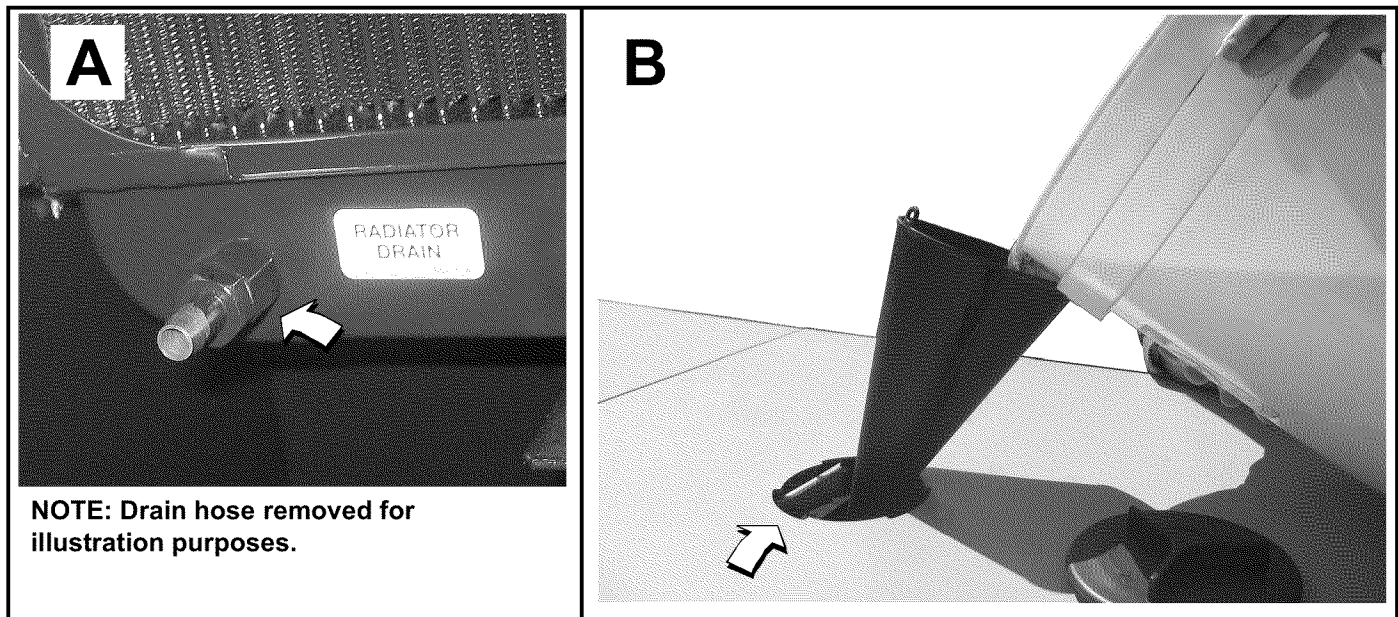


Figure 5-14. Drain/Fill Coolant System

5.8.3— Clean/Gap/Replace Spark Plugs

Clean, gap or replace spark plugs as follows:

⚠ DANGER!



Never disconnect a spark plug with the engine running. Doing so will result in an electric shock that could result in death or serious injury.

1. Remove battery negative cable (black) from battery negative (-) terminal.
2. Remove spark plug cables from spark plug terminals. See A of Figure 5-15

NOTE: When disconnecting spark plug cable from spark plug terminal, always grasp and pull on the boot at the terminal end of the cable. Pulling on cable portion can result in parts damage.

3. Thoroughly clean area around spark plugs.
4. Remove spark plugs from cylinder head using a 5/8 inch spark plug socket.

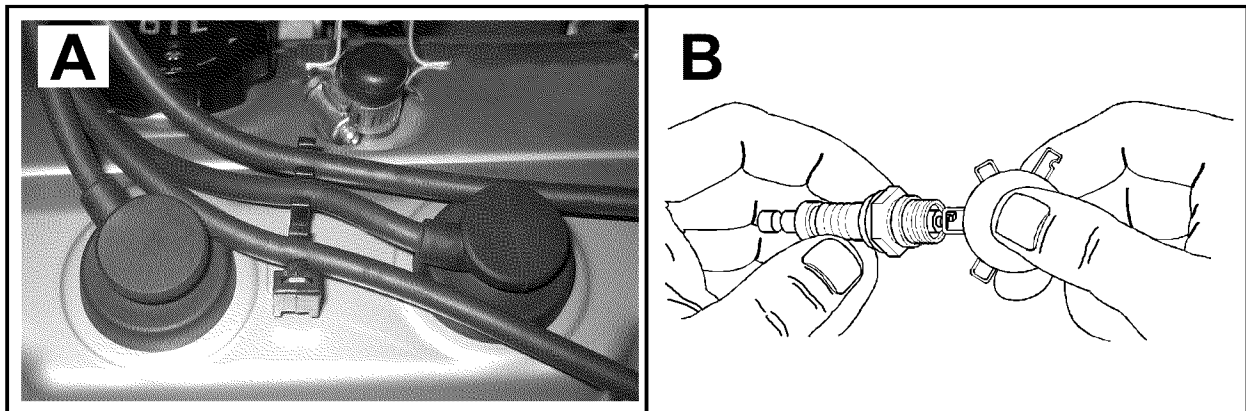


Figure 5-15. Adjust Spark Plug Gap

5. Check condition of threads in cylinder head and on spark plugs. If necessary, soften deposits with penetrating oil and clean out with a thread chaser.
6. Clean spark plugs using a wire brush and commercial solvent. Do not blast spark plugs. Use **new** spark plugs if necessary.
7. See B of Figure 5-15 Check spark plug gap using a wire feeler gauge. Adjust gap by carefully bending ground electrode as follows:

Spark Plug Gap						
Model	22/27 kW	25/30 kW	32/38 kW	36/45 kW	48 kW	60 kW
Engine	2.4L	1.5L	2.4L	2.4L	5.4L	2.4L
0.71 mm (0.028 in.)			○			○
0.9 mm (0.035 in.)		○				
1.07-1.17 mm (0.042-0.046 in.)	○			○		
1.29-1.45 mm (0.051-0.057 in.)					○	

8. Finger tighten spark plugs into cylinder head, and then using a spark plug socket, tighten as follows:

Spark Plug Torque		
Engine	ft-lbs	N-m
1.5L, 2.4L	18	25
5.4L	13	18

9. Install spark plug cables onto spark plug terminals.
10. Verify that spark plug cables are captured in cable clips at top of valve cover.

5.8.4— Final Instructions

If only performing Schedule A and Schedule B maintenance procedures, proceed as follows:

1. Install battery negative cable (black) onto battery negative (-) terminal.
2. Install left and right side access panels. See Subsection 5.2 —Access Panels.
3. See Subsection 5.10 —Return To Service.

5.9 — Schedule C Maintenance

NOTE: Perform Schedule C maintenance after 1000 hours of service. Before proceeding below, first perform all tasks listed under Schedule A Maintenance and Schedule B Maintenance.

⚠ CAUTION!



The following procedures require special tools and skills. Contact an authorized service provider to perform these tasks.

1. Remove battery negative cable (black) from battery negative (-) terminal.
2. Proceed as follows:
 - Replace Timing Belt (2.4L engines only)
 - Tighten Critical Fasteners

NOTE: Reset the A-B-C/Year time maintenance schedule counter using the Dealer Sub Menu (password required).

3. Install battery negative cable (black) onto battery negative (-) terminal.
4. Install front access panel. Install left and right side access panels. See Subsection 5.2 —Access Panels.
5. See Subsection 5.10 —Return To Service.

5.10 — Return To Service

After inspection, maintenance or service of the generator, return the unit to service as follows:

1. Pull up rubber flap covering fuse holder and install 7.5 amp fuse. See A of Figure 5-16.
2. Install T1 fuse in transfer switch.
3. Press AUTO on the control panel. A green LED illuminates to confirm that the system is in the AUTO mode. See B of Figure 5-16.
4. Move the Main Circuit Breaker switch up to the ON (Closed) position. See C of Figure 5-16.
5. Close the viewing window.
6. Remove the DO NOT OPERATE tag or placard from both the control panel and transfer switch.
7. Reset the time and date.

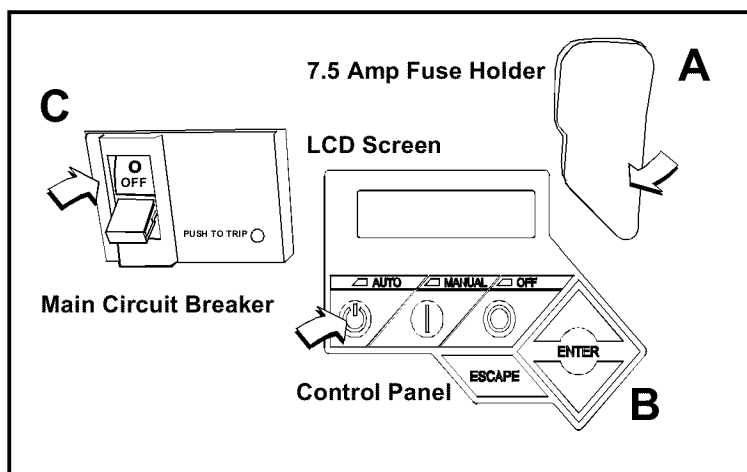


Figure 5-16. Generator Control Panel

5.11 — Lube Oil Maintainer System

5.11.1— Description

NOTE: Oil reservoir is empty when shipped from factory. Fill with clean engine oil to activate the system.

The 36 kW, 45 kW, and 60 kW models are equipped with a Lube Oil Maintainer System. The system is installed at the factory and calibrated at the factory to the correct engine-running crankcase oil level. As needed, the system keeps the engine lubricating oil full by automatically adding clean oil from the oil supply tank.

See A of Figure 5-17. The green bar observed through the viewing lens shows the normal oil level operating range of the Lube Oil Maintainer Regulator during engine running operation. When the oil level is within the green bar, the internal float holds the inlet valve closed to keep the crankcase oil at the current level.

As the engine uses oil, the float drops to open the inlet valve and allow clean oil to be supplied to the crankcase, replenishing engine oil to the full mark indicated on the oil dipstick. The float then rises with the crankcase oil level until it reaches a point where the inlet valve closes.

When the oil level as observed through the viewing lens is below the normal operating range green bar, it is an indication that the oil supply tank is low or the oil inlet screen is clogged. See B of Figure 5-17.

NOTE: It is normal for the oil level to be above the normal operating range green bar when engine is not running.

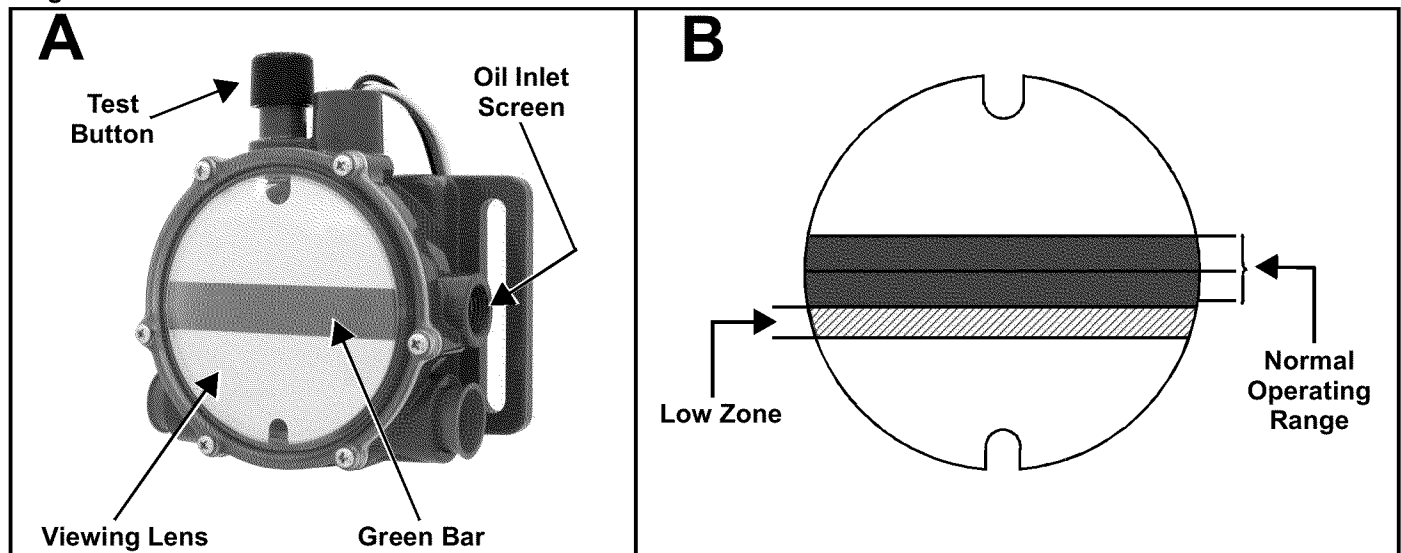


Figure 5-17. Lube Oil Maintainer Regulator

NOTE: When changing engine oil, always close the shutoff valve to avoid draining the clean oil in the oil supply tank with the crankcase oil. See Figure 5-19.

5.11.2— Fill Oil Supply Tank

1. Rotate plastic cover counter-clockwise and remove from top of enclosure. See Figure 5-18.
2. Remove fill cap at top of oil supply tank (Figure 5-20.).
3. Add clean engine oil to oil supply tank (2-1/2 gallons [9.46 liters] capacity).
4. Install fill cap at top of oil supply tank.
5. Install plastic cover at top of enclosure and rotate clockwise until tight.

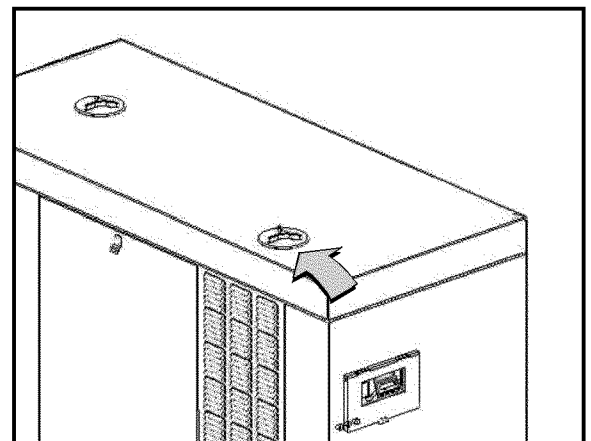


Figure 5-18. Access Oil Supply Tank

5.11.3— Test Functionality

See A of Figure 5-17. Momentarily press the test button to confirm that the float is operating correctly.

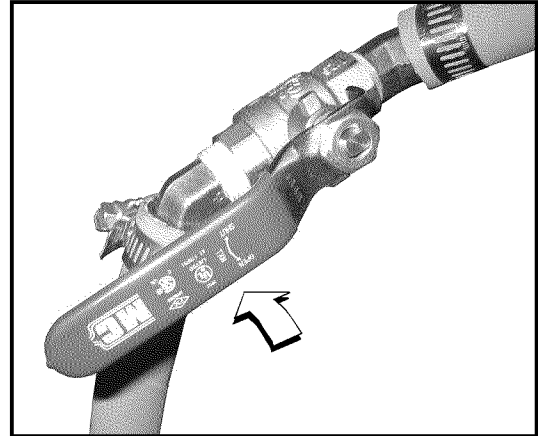
⚠ CAUTION!

⚠ Do not hold the test button down for a prolonged period of time or the crankcase can be over filled. Over filling the crankcase can result in engine damage.

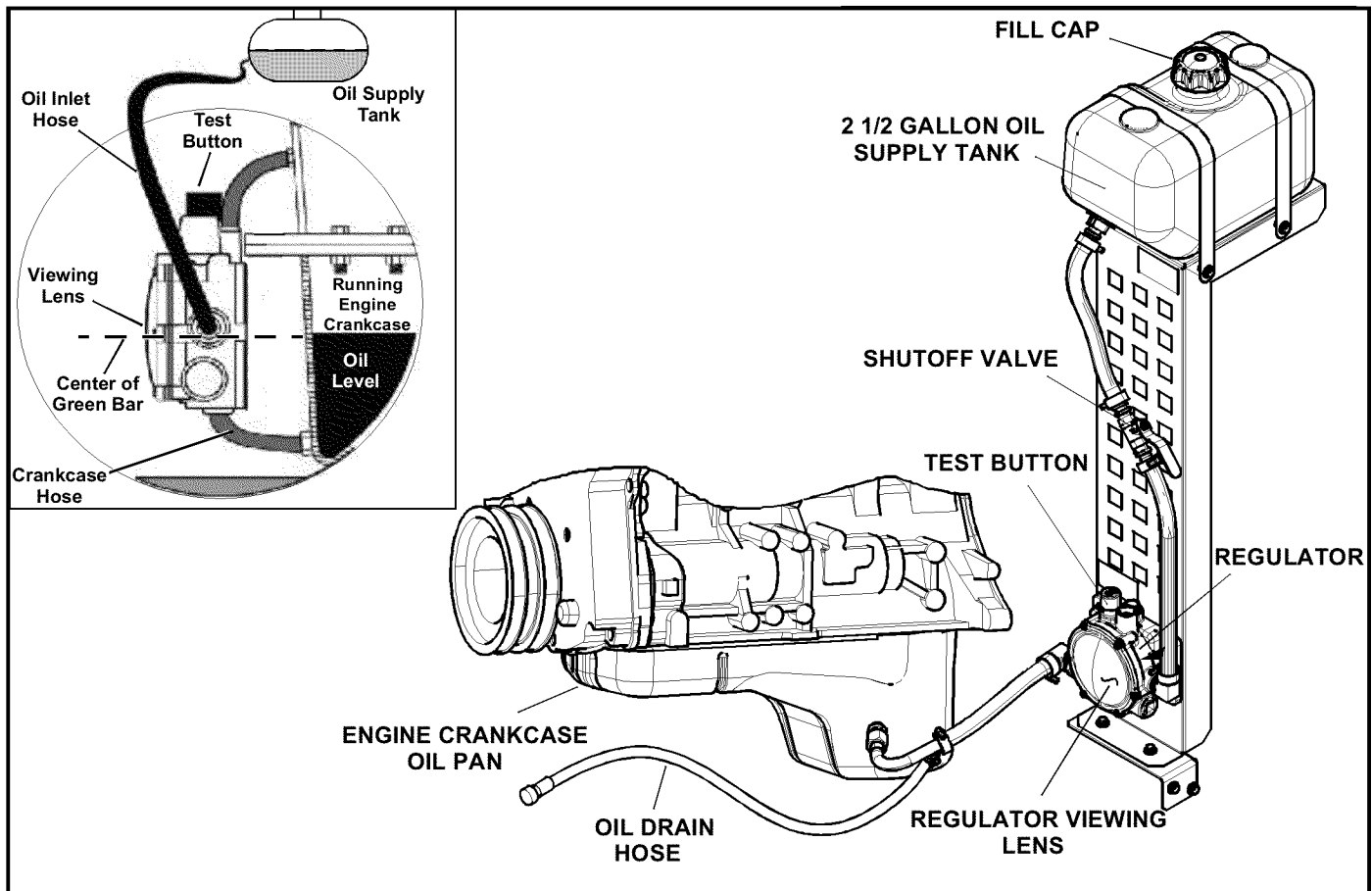
5.11.4— Shutoff Valve

See Figure 5-19 and Figure 5-20. When draining engine crankcase oil, always close shutoff valve to avoid draining clean oil from supply tank.

After filling crankcase with clean oil, remember to open shutoff valve to enable operation of Lube Oil Maintainer System.



**Figure 5-19. Shutoff Valve
(Shown in Open Position)**



**Figure 5-20. Lube Oil Maintainer Assembly
and Function Diagram**

Section 6 *Troubleshooting*

6.1 — Engine Troubleshooting

Problem	Cause	Correction
The engine will not crank.	Fuse blown.	Replace 7.5 amp fuse in generator control panel. Correct short circuit condition if fuse blows again.
	Loose, corroded or defective battery cables.	Tighten, clean or replace as necessary.*
	Defective starter contact.	Tighten, clean or replace as necessary.*
	Defective starter motor.	Tighten, clean or replace as necessary.*
	Dead Battery.	Charge or replace battery.
The engine cranks but will not start.	Out of fuel.	Replenish fuel. Turn on fuel valve.
	Defective fuel solenoid.	*
	Open F1 7.5 amp fuse.	Replace F1 7.5 amp fuse if fuse blows again.*
	Open F2 15 amp fuse.	Replace F2 15 amp fuse if fuse blows again.*
	Defective fuel system.	*
	No fuel supply.	Turn on fuel supply.*
The engine starts hard and runs rough.	Air cleaner plugged or damaged.	Check/replace air cleaner.
The generator is set to OFF, but the engine continues to run.	Defective keypad.	*
	Defective control board.	*
There is no AC output from the generator.	Main line circuit breaker is in the OFF (OPEN) position.	Reset circuit breaker to ON (CLOSED) position.
	Generator internal failure.	*
There is no transfer to standby after utility source failure.	Defective transfer switch coil.	*
	Defective transfer relay.	*
	Transfer relay circuit open.	*
	Defective control logic board.	*
Unit consumes large amounts of oil.	Engine over filled with oil.	Adjust oil to correct level.
	Engine breather defective.	*
	Incorrect oil type or viscosity.	See Engine Oil Recommendations.
	Damaged gasket, seal or hose.	Check for oil leaks.
* Contact an Independent Authorized Service Dealer for assistance.		

6.2 — Controller Troubleshooting

Active Alarm	Problem	Solution
NOT ACTIVATED	Unit will not start in AUTO with utility loss.	Refer to activation section in Owner's Manual.
NONE	Unit running in AUTO but no power in house.	Check MLCB. Contact servicing dealer if MLCB is in the ON position.
NONE	Unit will not start in AUTO with utility loss.	Check screen for start delay countdown. If the start up delay is greater than expected, contact servicing dealer to adjust from 2 to 1500 seconds.
HIGH TEMPERATURE	Unit shuts down during operation.	Check ventilation around the intake, exhaust and rear of generator. Contact servicing dealer if no obstruction is found.
OVERLOAD	Unit shuts down during operation.	Clear alarm and remove loads from the generator. Put back in AUTO and restart.
RPM SENSE LOSS	Unit was running and shuts down, attempts to restart.	Clear alarm and remove loads from the generator. Put back in AUTO and restart. If problem returns, contact servicing dealer to investigate possible fuel issue.
LOW OIL PRESSURE	Unit will not start in AUTO with utility loss.	Check oil level. Add oil per Owner's Manual. Contact servicing dealer if oil level is correct.
RPM SENSE LOSS	Unit will not start in AUTO with utility loss.	Clear alarm. From the MAIN menu on the control panel, navigate to the BATTERY MENU. Contact servicing dealer if battery is GOOD. Replace battery if CHECK BATTERY is displayed.
OVERCRANK	Unit will not start in AUTO with utility loss.	Clear alarm. Attempt to start the unit in MANUAL. If it does not start or starts and runs rough, contact servicing dealer.
OVERSPEED	Unit will not start in AUTO with utility loss.	Contact servicing dealer.
UNDER VOLTAGE	Unit will not start in AUTO with utility loss.	Contact servicing dealer.
UNDERSPEED	Unit will not start in AUTO with utility loss.	Contact servicing dealer.
MISWIRE	Unit will not start in AUTO with utility loss.	Contact servicing dealer.
OVERVOLTAGE	Unit will not start in AUTO with utility loss.	Contact servicing dealer.
LOW BATTERY	Warning active.	Clear alarm. From the MAIN menu on the control panel, navigate to the BATTERY MENU. Contact servicing dealer if battery is GOOD. Replace battery if CHECK BATTERY is displayed.
BATTERY PROBLEM	Warning active.	Contact servicing dealer.
CHARGER WARNING	Warning active.	Contact servicing dealer
SERVICE SCHEDULE A	Warning active.	Perform SERVICE SCHEDULE A maintenance; press ENTER to clear.
SERVICE SCHEDULE B	Warning active.	Perform SERVICE SCHEDULE B maintenance; press ENTER to clear.
SERVICE SCHEDULE C	Warning active.	Perform SERVICE SCHEDULE C maintenance; press ENTER to clear.

6.3 — Removal From Service During Utility Outages

If, during prolonged utility outages, the user wishes to remove the unit from service to conserve fuel, reduce run hours, or to perform maintenance tasks, then complete the steps listed below.

IMPORTANT NOTE: Failure to abide by this procedure can result in equipment damage.

To remove the generator from service while running in AUTO and online, proceed as follows:

1. Turn the main utility disconnect to OFF (Open).
2. Open the viewing window. See Subsection 3.4 —Open Viewing Window.
3. Move the Main Circuit Breaker switch down to the OFF (Open) position.
4. Press OFF on the control panel. A red LED illuminates to confirm that the system is in the OFF mode.

NOTE: If inspection and/or maintenance tasks are to be performed, complete the additional steps listed below.

5. Remove T1 fuse from transfer switch.
6. Pull up rubber flap covering fuse holder and remove 7.5 amp fuse.
7. Remove battery negative cable (black) from battery negative (-) terminal.
8. Place a DO NOT OPERATE tag or placard on both the control panel and transfer switch.

To return the generator to service, proceed as follows:

NOTE: If inspection and/or maintenance tasks were performed, start with step 1. If the unit was just shut down to conserve fuel or to reduce run hours, start at step 5.

1. Install battery negative cable (black) onto battery negative (-) terminal.
2. Pull up rubber flap covering fuse holder and install 7.5 amp fuse.
3. Install T1 fuse in transfer switch.
4. Remove the DO NOT OPERATE tag or placard from both the control panel and transfer switch.
5. Press AUTO on the control panel. A green LED illuminates to confirm that the system is in the AUTO mode. Allow the generator to start and run for a few minutes.
6. Move the Main Circuit Breaker switch up to the ON (Closed) position.
7. Turn the main utility disconnect to ON (Closed).
8. Close the viewing window.

6.4 — Storage

6.4.1— Prepare For Storage

If the generator cannot be exercised every **seven** days and will be out of service longer than 90 days, prepare for storage as follows:

1. Open the viewing window. See Subsection 3.4 —Open Viewing Window.
2. Press MANUAL on the control panel to start the engine. A blue LED illuminates to confirm that the system is in the MANUAL mode.
3. Allow the engine to run until it reaches normal operating temperature.
4. Press OFF on the control panel. A red LED illuminates to confirm that the system is in the OFF mode.
5. Move the Main Circuit Breaker switch on the control panel down to the OFF (Open) position.
6. Pull up rubber flap covering fuse holder and remove 7.5 amp fuse.
7. Turn off utility power to the transfer switch.
8. Place a DO NOT OPERATE tag or placard on both the control panel and transfer switch.
9. Wait five minutes for the engine to cool.
10. Remove left and right side access panels. See Subsection 5.2 —Access Panels.

NOTE: On 36 kW, 45 kW, and 60 kW models, close shutoff valve to avoid draining the oil supply tank with the crankcase oil. For more information, see Subsection 5.11 —Lube Oil Maintainer System.

11. Remove oil drain hose from holding clamp.
12. Use one wrench to hold hex on hose fitting (to prevent rotation), and use second wrench to remove drain plug.
13. Drain oil into a suitable container.
14. Install drain plug onto end of oil drain hose.
15. Install oil drain hose into holding clamp.
16. Rotate oil filter counterclockwise to remove from oil filter adapter.
17. Apply a light coat of clean engine oil to gasket of **new** oil filter.
18. Install oil filter by hand until gasket just contacts oil filter adapter. Tighten oil filter an additional 3/4 to one full turn.
19. Remove oil fill cap and fill engine with the recommended oil. See Subsection 2.3 —Engine Oil Recommendations.
20. Install oil fill cap.

NOTE: Dispose of used oil and oil filter at a proper collection center.

⚠ WARNING!



Always disconnect the negative battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in serious injury.

21. Remove battery negative cable (black) from battery negative (-) terminal.
22. Remove battery positive cable (red) from battery positive (+) terminal.
23. Remove two screws to release battery hold-down clamp from platform.
24. Remove battery and store on a wooden board in a cool, dry room. Do not store the battery on a concrete or earthen floor.
25. Install left and right side access panels. See Subsection 5.2 —Access Panels.
26. Thoroughly clean and wipe down the generator. See Subsection 2.9 —Corrosion Protection.

6.4.2— Return From Storage

To return the unit to service after storage, proceed as follows:

1. Thoroughly clean and wipe down the generator. See Subsection 2.9 —Corrosion Protection.
2. Remove left and right side access panels. See Subsection 5.2 —Access Panels.
3. Install battery onto tray oriented with the negative (-) post toward the front of the enclosure.
4. Install two screws with nylon washers to secure battery hold-down clamp to tray.
5. Check battery. See Subsection 5.7.9—Check Battery Condition/Fluid Level..

⚠ WARNING!



Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in serious injury.

6. Install battery positive cable (red) onto battery positive (+) terminal.
7. Install battery negative cable (black) onto battery negative (-) terminal.
8. Check oil level and add oil as necessary. **DO NOT OVERFILL.**

NOTE: On 36 kW, 45 kW, and 60 kW models, open shutoff valve to enable Lube Oil Maintainer System.

9. Open the viewing window. See Subsection 3.4 —Open Viewing Window.
10. Pull up rubber flap covering fuse holder and install 7.5 amp fuse.
11. Move the Main Circuit Breaker switch up to the ON (Closed) position.

12. Press MANUAL on the control panel to start the engine. A blue LED illuminates to confirm that the system is in the MANUAL mode.
13. Allow the engine to run until it reaches normal operating temperature. Check for leaks while the engine is running.
14. Press OFF on the control panel. A red LED illuminates to confirm that the system is in the OFF mode.
15. Install left and right side access panels. See Subsection 5.2 —Access Panels.
16. Turn on utility power to the transfer switch.
17. Press AUTO on the control panel. A green LED illuminates to confirm that the system is in the AUTO mode.
18. Reset the time and date.
19. Close the viewing window.

6.5 — Attention After Submersion

Do NOT start and operate the generator if it has been submerged in water. Have a Dealer thoroughly clean, dry, and inspect the generator following any submersion. If the structure (home) has been flooded, it should be inspected by a certified electrician to ensure there won't be any electrical problems during generator operation or when utility power is returned.

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To: Barns, Caitlin[Caitlin.Barns@stantec.com]
Cc: Hughes, Joseph@Energy[Joseph.Hughes@energy.ca.gov]; Hull, Robbie C.[rhull@coxcastle.com]
From: Rob Stahl[rstahl@co.shasta.ca.us]
Sent: Fri 4/21/2023 4:22:27 PM (UTC-07:00)
Subject: RE: SCAQMD's comments on CEC Fountain Wind Opt-in application

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Afternoon Caitlin,

I should be able to help you out and answer your questions on the permitting requirements for a backup generator. My schedule is pretty open next week, and I'll be in the office. Depending on if the generator is propane or diesel, I can send you the application and supplemental information forms. That lists out what information is needed for my staff to do an evaluation.

Let me know what date/time works for your schedule, and we can setup a quick call.

-rob

Rob Stahl

Air Quality District Manager


Shasta County AQMD

1855 Placer St., Ste 101

Redding, CA 96001

530-225-5156

From: Barns, Caitlin <Caitlin.Barns@stantec.com>
Sent: Friday, April 21, 2023 11:53 AM
To: Air Quality <airquality@co.shasta.ca.us>
Cc: Hughes, Joseph@Energy <joseph.hughes@energy.ca.gov>; Hull, Robbie C. <rhull@coxcastle.com>
Subject: RE: SCAQMD's comments on CEC Fountain Wind Opt-in application

 **EXTERNAL SENDER:** Do not follow links or open attachments unless you recognize the sender and know the content is safe.

Hello, I am following up on my previous email to determine when we could meet to discuss SCAQMD's comments on the Fountain Wind Project application.

Thanks!

Caitlin

From: Barns, Caitlin
Sent: Wednesday, April 19, 2023 12:49 PM
To: airquality@co.shasta.ca.us
Cc: Hughes, Joseph@Energy <joseph.hughes@energy.ca.gov>; Hull, Robbie C. <rhull@coxcastle.com>
Subject: SCAQMD's comments on CEC Fountain Wind Opt-in application

Hello,

Recently the Shasta County AQMD provided comments to the California Energy Commission on the Fountain Wind Project's opt-in application for certification. Stantec is working on behalf of the developer to address these comments and we would like to set up a call with you to discuss one in particular, concerning the data required for a Permit to Operate for the project's proposed backup generator and the date by which you need that information.

What dates/times would work for you for a phone call in the next two weeks?

Thanks,
 Caitlin

Caitlin Barns (she/her)
Senior Biologist
BC 2037 Ecosystems Group Leader
601 SW 2nd Avenue, Suite 1400
Portland, Oregon 97204
503-207-4368



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To: Payne, Leonidas@Energy[leonidas.payne@energy.ca.gov]
From: Barns, Caitlin[Caitlin.Barns@stantec.com]
Sent: Fri 4/21/2023 1:37:41 PM (UTC-07:00)
Subject: updated spreadsheet
[fwp_response_spreadsheet.xlsx](#)

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Hi Lon,

Here's the updated spreadsheet. Items in gray are "no response needed/adequate". Items in green have been submitted, and items in blue are pending submittal in the next month.

Let me know if you have any comments!

Thanks,
Caitlin

Caitlin Barns (she/her)
Senior Biologist
BC 2037 Ecosystems Group Leader
601 SW 2nd Avenue, Suite 1400
Portland, Oregon 97204
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