

STATE OF HAWAII DEPARTMENT OF HEALTH P.O. Box 3378 HONOLULU, HAWAII 96801-3378

In reply, please refer to: File:

COMMITTEE ON ENERGY AND ENVIRONMENT PROTECTION

H.B. 1490 RELATING TO ELECTRICAL POWER GENERTORS

Testimony of Gary Gill Deputy Director, Environmental Health Administration

February 11, 2014 8:15 p.m.

1 **Department's Position:** The Department of Health (Department) supports the intent of this bill, but

2 does not feel this bill is necessary.

Fiscal Implications: There will be economic and operational impacts on many facilities in Hawaii that
use diesel engine generators to provide power.

5 Purpose and Justification: This bill amends Chapter 342B, HRS requiring certain sized diesel engine

6 generators to have filters with at least 85% control efficiency for reducing particulate emissions from the

7 engine's exhaust.

The Department supports reducing particulate matter emissions from diesel engine generators; 8 however, additional particulate emission controls may not be necessary considering Hawaii is in 9 attainment with the National Ambient Air Quality Standards (NAAQS) and diesel engine generators are 10 11 regulated on the state and federal level. Federal standards for diesel engine generators incorporate emission limits, maintenance procedures, and air pollution control requirements. Affected diesel engine 12 generators are also required to obtain air permits from the Department to ensure compliance with the 13 14 federal regulations and NAAQS. We also note that requiring filters on diesel engine generators will have associated costs but 15 defer this matter to the owners and operators of the engines. 16

17 Thank you for the opportunity to testify on this bill.

Promoting Lifelong Health & Wellness

1065 Ahua Street Honolulu, HI 96819 Phone: 808-833-1681 FAX: 839-4167 Email: <u>info@gcahawaii.org</u> Website: <u>www.gcahawaii.org</u>



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February 11, 2014

TO: HONORABLE CHRIS LEE, CHAIR, HONORABLE CYNTHIA THIELEN, VICE CHAIR AND MEMBERS OF THE HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

SUBJECT: **OPPOSITION TO H.B. 1490, RELATING TO ELECTRICAL POWER GENERATORS.** Requires certain diesel-powered electrical power generators to be equipped with diesel particulate filters that remove no less than 85% of the particulate matter.

HEARING

DATE:Tuesday, February 11, 2014TIME:8:15 a.m.PLACE:Conference Room 325

Dear Chair Lee, Vice Chairs Thielen and Members of the Committee,

The General Contractors Association of Hawaii (GCA) is an organization comprised of over approximately hundred (600) general contractors, subcontractors, and construction related firms. The GCA was established in 1932 and is the largest construction association in the State of Hawaii. The mission is to represent its members in all matters related to the construction industry, while improving the quality of construction and protecting the public interest.

H.B. 1490 proposes to mandate that certain diesel-powered electrical power generators be equipped with diesel particulate filters that remove no less than 85% of the particulate matter. While GCA supports the intent of this measure to reduce the exposure of such emissions, GCA **opposes** H.B. 1490 because this bill is unnecessary due to other federal requirements and regulations and the cost burden of such mandate.

GCA opposes H.B. 1490 for the following reasons:

- 1. Older generators are already required to be retrofit in order to reduce emissions. According to 40 CFR 63 Subpart ZZZZ (often referred to as the RICE NESHAP Rule), diesel engine generators greater than 300 horsepower that were constructed prior to June 2006 are required to install a Diesel Oxidation Catalyst (DOC).
- 2. The cost to retrofit older generators would be overly burdensome. Over the past one to two years, many organizations have spent considerable resources to install DOCs in order to comply with the RICE NESHAP Rule. For instance, the compliance cost to retrofit an 800 HP generator with a DOC under the RICE NESHAP Rule might be in the range of \$50,000 \$85,000. If H.B. 1490 were enacted, these costly DOCs would become obsolete as owners would be required to install a diesel particulate filter (DPF) at a

substantial additional cost, likely to be well in excess of \$100,000. In order to provide context, it should be noted that the cost of a new generator of this size would be on the order of \$400,000.

- **3. H.B. 1490 could create a direct conflict with Federal regulations.** As indicated above, the RICE NESHAP Rule mandates that a DOC be installed on older generators. It may not be technologically feasible to install both a DOC and a DPF, which could present a compliance challenge for the owner should a DOC be installed to meet the Federal requirements, or should a DPF be installed to meet the State requirements?
- 4. Newer generators have substantially lower emissions. New generators purchased today are required to meet stringent EPA Tier 4 emissions requirements. As currently written, H.B. 1490 would apply to all engines regardless of age. Therefore, someone who buys a new diesel engine generator that meets the latest EPA requirements would be required to install an expensive retrofit system prior to putting the engine into service.
- 5. There is no exemption for emergency use generators. Emergency generators have relatively limited duty cycles. For instance, the RICE NESHAP Rule limits non-emergency operation of emergency generators (i.e., for maintenance and readiness testing) to no more than 50 hours per year. Additional operation of these generators is limited to "emergency events" in which a facility's main power supply goes out. In most years, an emergency generator will only operate a few days per year. It does not make sense to impose a costly requirement to reduce the emissions of equipment that hardly ever operates.
- 6. Hawaii is already in attainment with State and National ambient air quality standards. Because Hawaii is already in attainment with ambient air quality standards for particulate matter, it is irresponsible to impose a costly mandate without first conducting a cost/benefit analysis.

For these reasons, we respectfully oppose H.B. 1490 and request that this bill be deferred.

GCA appreciates the opportunity to provide comments in opposition to H.B. 1490.

Testimony before the House Committee on Energy and Environmental Protection

H.B. 1490 -- Relating to Electrical Power Generators

Tuesday, February 11, 2014 8:15 a.m., Conference Room 325

By Ron Cox Hawaiian Electric Company, Inc.

Written Testimony Only

Chair Lee, Vice Chair Thielen and Members of the Committee:

My name is Ron Cox. I am the Vice President of Power Supply at Hawaiian Electric Company. I am providing written testimony on behalf of Hawaiian Electric Company and its subsidiary utilities, Maui Electric Company and Hawaii Electric Light Company (the "Hawaiian Electric Companies").

The Hawaiian Electric Companies understand the general intent of H.B. 1490, which proposes to require equipping diesel-powered electrical power generators with diesel particulate filters capable of filtering out 85% of the particulate matter from the exhaust. However, the Hawaiian Electric Companies offer that the bill is unnecessary given that as an electric utility we are already subject to stringent particulate matter (PM) emissions limitations. The Hawaiian Electric Companies offer the following comments and suggested amendment for the Committee's consideration.

Hawaiian Electric Companies' facilities are designed to operate and comply in accordance with federal standards of performance for stationary sources, which include regulations for PM emissions. The Hawaiian Electric Companies perform EPA-approved dispersion modeling to demonstrate compliance with federal National Ambient Air Quality Standards (NAAQS) as part of the air quality permitting process. H.B. 1490 would introduce a requirement that is incompatible with the federal and state framework established by the Clean Air Act, particularly as it has been applied to the electricity generating industry.

H.B. 1490 proposes adding a new section to Hawaii Revised Statutes Chapter 342B applying to *"diesel-powered electrical power generators"*. There is no definition of a "diesel-powered electrical power generator" in either the Hawaii Revised Statutes Chapter 342B, Air Pollution Control, or in the

Hawaii Administrative Rules Title 11, Chapter 60.1 Air Pollution Control. It is not clear if H.B. 1490 applies to any electric generating unit that combusts diesel fuel, and whether it applies to emergency, black start, non-emergency, stationary, mobile, or marine sources within the State. Diesel fuel is used throughout Hawaiian Electric Companies' generation facilities.

We therefore suggest that the Committee consider the following amendment to the bill, which will recognize that particulate matter emissions from the Hawaiian Electric Companies' generation facilities are already regulated through numeric limits, restrictions on the sulfur content of the fuel, and operational requirements.

Section 1. "§342B- Electrical power generators; diesel; filters. Any diesel-powered electrical power generator capable of generating more than _____ kilowatts of power used in the State, except for such generators used solely in the production of electricity for sale to the public, shall be equipped with a diesel particulate filter that is capable of filtering out no less than eighty-five per cent of the particulate matter in the exhaust produced by the generator."

Thank you for the opportunity to testify.



Neal K. Okabayashi Senior Vice President & Attorney Government Affairs

> Presentation To Committee on Energy and Environmental Protection (EEP) February 11, 2014 at 8:15 a.m. State Capitol Conference Room 325

Testimony in Opposition to Bill H.B. 1490

TO: The Honorable Chris Lee, Chair The Honorable Cynthia Thielen, Vice Chair Members of the Committee

My name is Neal Okabayashi of First Hawaiian Bank and I testify for First Hawaiian Bank.

First Hawaiian Bank is a bank whose deposits are insured by the Federal Deposit Insurance Corporation. The FDIC requires that we take protective measures to protect and preserve our data. As is the case with many other banks with their own dedicated data centers, we rely on the electrical feed from the electrical utility to power our data center but to protect ourselves against electrical outages, we provide for back-up power to ensure a steady stream of electrical power. That is the role played by our generators. Thus, our generators are rarely used, and unless there is a blackout, the usage is confined to periodic testing and thus does not appear to pose the concern that this bill addresses.

We are also located in an industrial center and not a residential neighborhood.

We fear that the language would require us to retrofit existing generators, and since generators come in pairs for redundancy, retrofitting costs might be expensive and also raises issues of temporary inoperability.

Thank you for the opportunity to submit this testimony and please let us know if we can provide further information.

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Neal K. Okabayashi



A SUBSIDIARY OF ALEXANDER & BALDWIN, INC. GLP Asphalt • Maui Paving

February 10, 2014

To:House Committee on Energy & Environmental ProtectionSubject:Opposition to HB 1490, Relating to Electrical Power Generators

My name is Joseph Shacat and I am the Environmental Compliance Manager for Grace Pacific LLC. I am writing today in **opposition to HB 1490**. This bill would impose an undue financial hardship on owners of diesel engine generators, with a relatively small impact on air quality and human health.

I have personally been involved in numerous federal and private grant projects over the past seven years to retrofit, repower, and refuel diesel powered vehicles and equipment. All of these projects were implemented by creating partnerships with State and County agencies, non-profit organizations, and other companies. Over the course of implementing these projects, Grace Pacific has become the leading organization in Hawaii to voluntarily retrofit diesel equipment. We have developed a strong knowledge base regarding the available technologies, engineering considerations, and the cost to install and maintain these systems. At the same time, we have closely tracked the changing Federal requirements that apply to diesel engines. Based on our extensive experience in this area, we feel that HB 1490 would provide limited benefit to human health or the environment at a high cost, for the reasons outlined below.

The proposed bill is far too broad in scope and does not adequately address the complexity of the regulated equipment. Diesel engine generators (DEGs) fall under many classification schemes – emergency power, prime power, standby power, stationary engines, nonroad engines, etc. As it is currently written, the proposed bill applies indiscriminately to all of these classifications, effectively using a large blunt hammer to stamp out a very small problem. In contrast to this simple, one-paragraph bill, regulations at the federal level (EPA) as well as the state level (i.e., in California) require hundreds of pages of rulemaking and analysis in order to adequately address the complexities of different types and configurations of engines.

The State of Hawaii does not have the legal authority to enact this bill. As indicated above, this bill applies indiscriminately to all types of DEGs. However, state and local authorities do not have the legal authority to pre-empt federal regulations of non-road engines that were established under the Clean Air Act.

Older stationary DEGs are already required to be retrofit in order to reduce emissions. According to 40 CFR 63 Subpart ZZZZ (often referred to as the RICE NESHAP Rule), stationary DEGs greater than 300 horsepower that were constructed prior to June 2006 are required to install a Diesel Oxidation Catalyst (DOC). DOCs are capable of reducing carbon monoxide (CO) emissions by 90%, hydrocarbon (HC) emissions by 80%, and particulate matter (PM) emissions by 20%. Although the PM reductions associated with DOCs do not meet the emission reduction goals established in SB 2548, the DOCs have already been installed on this older equipment, and Hawaii's residents are already benefiting from the reduced emissions. It should be noted that the RICE NESHAP Rule has an exemption for emergency use generators, because emergency generators tend to have fairly limited operating cycles and relatively low overall emissions on an annual basis (see below for more information).



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The cost to retrofit older generators with DPFs would be overly burdensome. Over the past 1-2 years, many organizations have spent considerable resources to install DOCs in order to comply with the RICE NESHAP Rule. For instance, the compliance cost to retrofit an 800 HP generator with a DOC under the RICE NESHAP Rule might be in the range of \$50,000 - \$85,000. If SB 2548 were enacted, these costly DOCs would become obsolete as owners would be required to install a diesel particulate filter (DPF) at a substantial additional cost, likely to be well in excess of \$100,000. Some organizations that own large numbers of DEGs would be required to spend millions of dollars in order to comply with the requirements of this bill.

Newer generators have substantially lower emissions. New generators purchased today are required to meet stringent EPA Tier 4 emissions requirements. As currently written, HB 1490 would apply to all engines regardless of age and, more importantly, regardless of their current emissions performance. Therefore, someone who buys a new diesel engine generator that meets the latest EPA requirements would be required to install an expensive retrofit system prior to putting the engine into service.

There is no exemption for emergency use generators. Emergency generators have relatively limited duty cycles. For instance, the RICE NESHAP Rule limits non-emergency operation of emergency generators (I.e., for maintenance and readiness testing) to no more than 50 hours per year. Additional operation of these generators is limited to "emergency events" in which a facility's main power supply goes out. In most years, an emergency generator will only operate a few days per year. It does not make sense to impose a costly requirement to reduce the emissions of equipment that hardly ever operates. The State of California considered requiring owners to install DPFs on emergency use DEGs, but determined through extensive analysis that it is not cost effective to routinely apply after-treatment technologies such as DPFs on emergency engines.¹

Hawaii is already in attainment with State and National ambient air quality standards. This bill is not necessary because Hawaii is already in attainment with ambient air quality standards for particulate matter. California has an extensive set of state and local regulations for DEG emissions, but the requirements but the California regulations specifically address the non-attainment status of air quality in that state. As such, the California requirements vary depending on the air quality in specific regions or "air districts."

I appreciate your time and consideration of my testimony regarding this important matter.

Sincerely,

Joseph Shacat **Environmental Compliance Manager**

¹ Staff Report: Initial Statement of Reasons for Proposed Rulemaking: Proposed Amendments to the Airborne Toxic Control Measure for Stationary Compression Ignition Engines (Stationary Diesel Engine ATCM). California Air Resources Board, September 2010. http://arb.ca.gov/regact/2010/atcm2010/atcmisor.pdf

HB 1490

RELATING TO ELECTRICAL POWER GENERATORS

KEN HIRAKI VICE PRESIDENT-GOVERNMENT & COMMUNITY AFFAIRS HAWAIIAN TELCOM February 11, 2014

Chair Lee and members of the Committee:

I am Ken Hiraki, testifying on behalf of Hawaiian Telcom (HT).

We oppose HB 1490 which mandates diesel-powered electrical power generators be equipped with particulate filters that remove no less than 85% of the particulate matter. Passage of this measure poses a risk to our state's emergency preparedness, provides limited environmental benefits and imposes a costly unfunded mandate.

When it comes to public safety, Hawaiian Telcom takes its job very seriously. Our company plays a critical role in our state's emergency preparedness strategy. When the electricity goes out, our phones are still on providing essential communication services connecting the public to FEMA, state and local emergency providers, doctors, friends and loved ones. Our diesel-powered emergency backup electrical generators are the reliable workhorses that power on when the electricity goes off in order to keep our communication services up and running.

Mandating the installation of a particulate filter creates an additional risk that our emergency electrical power generators could fail during a state of emergency. For example, if the particulate filter required under this bill should get clogged there is a risk that exhaust from the emergency generator will not be able to properly vent and will cause the entire emergency generator to malfunction and cease operation. When it comes to public safety, we must do everything possible to ensure optimal operational reliability by reducing rather than increasing the number of potential failure points in the process.

In addition to our public safety concerns, it should be emphasized that our dieselpowered electrical generators are "intermittent" use generators. Intermittent generators are normally dormant but will automatically switch on when the electrical power goes down or will be tuned on as part of a scheduled safety test. By virtue of the limited intermittent use of our generators, an important public policy question is raised whether the perceived environmental benefits contained in this bill outweigh the steep economic costs and public safety concerns raised in our testimony. Finally, we are concerned this measure does not include an appropriation or tax credit to reimburse affected entities for the cost to make the necessary equipment upgrades as required under HB 1490. Our company has over a hundred generators statewide and the retrofitting construction cost to our company alone will be well over \$4,000,000. This figure does not include the cost to other affected entities such as hospitals, police, fire stations, airports, nursing homes, military bases and even the emergency generators located in the Capitol basement.

For the foregoing stated reasons, Hawaiian Telcom respectfully requests that HB 1490 be held in committee.

Thank you for the opportunity to testify.

HB1490 Submitted on: 2/8/2014 Testimony for EEP on Feb 11, 2014 08:15AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Javier Mendez-Alvarez	Individual	Support	No

Comments:

Please note that testimony submitted <u>less than 24 hours prior to the hearing</u>, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

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TESTIMONY OF THE DEPARTMENT OF THE ATTORNEY GENERAL TWENTY-SEVENTH LEGISLATURE, 2014

LATE

	WING MEASURE: , RELATING TO ELECTRICAL POV	WER G	ENERATORS.	
BEFORE THE: HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION				
DATE:	Tuesday, February 11, 2014	TIME:	8:15 a.m.	
LOCATION:	State Capitol, Room 325			
TESTIFIER(S):	David M. Louie, Attorney General, or William F. Cooper, Deputy Attorney Gen	neral		

Chair Lee and Members of the Committee:

The Attorney General has concerns with this bill.

This bill would regulate diesel-powered electrical power generators. Diesel-powered electrical power generators power either stationary or mobile machines. The federal government has expressly preempted state regulation of mobile diesel-powered electrical generators. 42 U.S.C. § 7543(e). As a result, only stationary diesel-powered electrical power generators can be regulated by the Legislature.

This bill would add a new section to chapter 342B, Hawaii Revised Statutes, that would require that "Any diesel-powered electrical power generator capable of generating more than _____ kilowatts of power used in the State shall be equipped with a diesel particulate filter that is capable of filtering out no less than eighty-five per cent of the particulate matter in the exhaust produced by the generator." Because this provision would affect both stationary and mobile diesel-powered electrical power generators, it would violate federal law. This problem can be corrected by inserting the word "stationary" before the phrase "diesel-powered electrical power generator" in section 1, page 1, line 5, of the bill. As amended, the sentence would read as follows, "Any stationary diesel-powered electrical power generator capable of"

The Department of the Attorney General respectfully recommends that the Committee amend the bill as suggested above.