



Environmental Caucus of
The Democratic Party of Hawai'i

To: The Honorable Nicole E. Lowen, Chair
The Honorable Elle Cochran, Vice Chair
Members of the Committee on Energy & Environmental Protection

The Honorable Mark J. Hashem, Chair
The Honorable Cory M. Chun, Vice Chair
Members of the Committee on Corrections, Military & Veterans

Re: **HCR 101 and HR 109 – URGING THE TO MILITARY REDUCE THEIR USE OF PFAS**

Hearing: Tuesday, March 28, 2023, 11:05 a.m., Conference Room 325 & Videoconference

Position: **Strong support**

Aloha, Chairs Lowen and Hashem, Vice Chairs Cochran and Chun, and Members of the Committee on Energy & Environmental Protection and Committee on Corrections, Military & Veterans:

The Environmental Caucus of the Democratic Party of Hawai'i and its 7,500 members strongly support HCR 101 and HR 109. These measures urge all branches of the U.S. Military operating in Hawaii to implement changes in their policies to reduce, to the extent possible, the use of products containing perfluoroalkyl and polyfluoroalkyl substances.

PFAS is a carcinogenic toxin that goes beyond our deepest understanding of what is safe drinking water. The EPA has set an interim maximum contaminate level (MCL) at 4 parts per TRILLION because this is the lowest amount measurable by qualified laboratories, not because of scientific evidence that show that 4 parts per TRILLION is in fact a safe amount of PFAS to consume. There is no safe amount!

PFAS is known to cause CANCER, IMMUNE DISRUPTION, FERTILITY PROBLEMS, among many other illnesses, complications, and birth defects.

PFAS has been detected in Kunia, Waipio, Honolulu and Kahului airports, and eight Hawaii military sites, including the Navy's Pearl Harbor drinking water.

This poison goes beyond the general public's comprehension as it has been used in everyday products for nearly a century and yet we are only now learning about it thanks to Red Hill. It has been used since the 1940's in many consumer products: Teflon pans, Scotchguard, food packaging, raincoats, furniture, cosmetics, clothing, and dental floss, in addition to the AFFF with PFAS used at firefighting training areas at airports and military installations. The resent spill of AFFF with PFAS concentrate at Adit 6 at the Red Hill Facility released 1,300 gallons in



March 28, 2023

Page 2

November 29, 2022. This is an unconscionable amount where 4 parts per TRILLION is the maximum contaminant level of PFAS for safe drinking water. As a visual, this MCL amount is equivalent to 4 drops of food coloring in 18 million gallons of water or put in another way, 4 drops in 20 Olympic-sized swimming pools, each holding 660,000 gallons of water.

We clearly need to urge the U.S. Military to prepare and plan for the reduction of its use of PFAS, its clean-up and remediation, and plans for risk-prevention, including water filtration. This known carcinogen passes through our life cycle by the water we drink, air that we breathe, fish and wildlife we consume, wastewater we cause, and reclaimed wastewater and biosolids used on the agricultural produce we eat. Furthermore, PFAS bioaccumulates as it is known as “Forever Chemicals.” It will not biodegrade for 700-1000 years. It can pass from mother to fetus through her bloodstream and from mother to child through breastmilk. Its multigenerational and bioaccumulative properties compound the toxicity of the PFAS in the human body.

It is important to urge all branches of the U.S. Military operating in Hawaii to implement changes in their policies to reduce, to the extent possible, the use of products containing perfluoroalkyl and polyfluoroalkyl substances for the health and safety of people’s lives and the environment, including our drinking water aquifer and wells. Please pass these measures.

Mahalo nui loa,

/s/ Melodie Aduja and Alan Burdick
Co-chairs, Environmental Caucus
Democratic Party of Hawaii



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March 27, 2023

TO: Chairs Lowen & Hashem & Members of the EEP/CMV Committees

RE: HR 109 URGING ALL BRANCHES OF THE UNITED STATES MILITARY OPERATING IN HAWAII TO IMPLEMENT CHANGES IN THEIR POLICIES TO REDUCE, TO THE EXTENT POSSIBLE, THE USE OF PRODUCTS CONTAINING PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES.

Support for a hearing on March 28

Americans for Democratic Action is an organization founded in 1947 by leading supporters of the New Deal and led by Patsy Mink in the 1970s. We are devoted to the promotion of progressive public policies.

We support this resolution as science and research have shown that PFAS are highly toxic carcinogenic forever chemicals that bioaccumulate in the soil, water, and food that we consume causing a systemic threat to our health and the environment for many generations to come. PFAS does not breakdown and deteriorate for 700-1000 years and studies have shown that many Americans already suffer from PFAS contamination in our bloodstream. We must immediately ban its use. We hope this resolution will persuade the military to end its use of PFAFs.

Thank you for your consideration.

Sincerely,

John Bickel, President



March 28, 2023

To: The Honorable Nicole Lowen, Chair
Members, House Committee on Energy and Environmental Protection

The Honorable Mark Hashem, Chair
Members, House Committee on Corrections, Military and Veterans

From: Tim Shestek
Senior Director, State Affairs

Re: **HCR 103 / HR 109 – Comments**

The American Chemistry Council (ACC) appreciates the opportunity to submit the following comments relative to both HCR 103 and HR 109, resolutions urging the United States military operating in Hawaii to reduce the use of products containing perfluoroalkyl and polyfluoroalkyl (PFAS) substances.

ACC supports a comprehensive approach to managing PFAS substances that helps to ensure protection of human health and the environment. However, the language contained in HCR 103 and HR 109 is extremely broad, especially as it relates to categorizing all PFAS as the same substances with equal hazard and risk profiles. This approach is not scientifically sound and for this reason, we must respectfully oppose HCR 103 and HR 109 as currently drafted.

Background

PFAS are a diverse group of chemistries characterized by the strong bond between fluorine and carbon. Because of this strong bond, PFAS provides products with strength, durability, stability, and resilience. These properties are critical to the reliable and safe function of a broad range of products that are important for industry and consumers, such as the smartphones, tablets, and telecommunications systems; aircraft; solar panels and turbines critical to alternative energy development; and medical devices. Attached is information that provides an overview of this group of chemistries and how they are used in various applications, including their importance to the military.

PFAS includes a variety of different chemicals with different properties and characteristics. Therefore, the hazard and risk profiles of various PFAS are different. According to the US EPA, “approximately 600 PFAS are manufactured (including imported) and/or used in the United States.” Among these 600 are substances in the solid (e.g., fluoropolymers), liquid (e.g., fluorotelomer alcohols) and gaseous (e.g., hydrofluorocarbon refrigerants) forms. The fundamental physical, chemical, and biological properties of solids, liquids and gases are clearly different from one another.

The very distinct physical and chemical properties of the three types of commercial PFAS described demonstrate how varied they are and how setting a policy using a broad definition of PFAS could have significant impacts to manufacturers of a variety of different products and the industries and entities that use them.

Many entities that have explored the possibilities of a class-based approach to regulating these substances have recognized the significant challenges:

- ECOS – the Environmental Council of the States – which represents state and territorial environmental agency leaders, several of whom have implemented regulatory programs in their home states, has said:



“Many regulators and subject-matter experts advise against grouping PFAS as an entire class.” (*ECOS. Processes & Considerations for Setting State PFAS Standards (February 2020)*)

- The Vermont Department of Environmental Conservation, which was specifically charged by the legislature to develop a class regulation or to explain why such a regulation wasn't possible said, “The Review Team spent over a year deliberating, researching, and discussing the potential to regulate PFAS as a Class. After reviewing the current peer-reviewed literature, as well as the available toxicology data for PFAS, the Review Team determined that at the current time it is not feasible to regulate PFAS as a Class.” (<https://dec.vermont.gov/sites/dec/files/PFAS/20180814-PFAS-as-a-Class.pdf>)
- Federal scientists participating in a workshop convened by the National Academies of Science, Engineering, and Medicine (NASEM) to review the federal PFAS research program acknowledged the broad diversity of properties with this group of substances, concluding that “PFAS substances thus present unique challenges for grouping into classes for risk assessment.” *NASEM. Workshop on Federal Government Human Health PFAS Research, October 26-27. Board on Environmental Studies and Toxicology (2020).* <https://www.nap.edu/read/26054/chapter/1>
- In a recently published peer review conducted by a panel of experts, most agreed that all PFAS should not be grouped together for risk assessment purposes. Most experts also agreed that it is inappropriate to assume equal toxicity/potency across the diverse class of PFAS. <https://scipinion.com/panel-findings/risk-assessment-of-pfas/>

ACC looks forward to working with you and the Legislature to ensure that any approach to the management of PFAS is grounded in sound scientific information. Thank you in advance for considering our views. If you have any questions, please do not hesitate to contact me at 916-448-2581 or via email at tim_shestek@americanchemistry.com. You may also contact ACC's Hawaii based representative Ross Yamasaki at 808-531-4551 or via email at ryamasaki@808cch.com

PFAS: Critical to America's Defense



Fluorotechnology (PFAS) products are essential to many military applications.

PFAS enables:

- Improved vehicle connectivity on wireless networks, enabling low smoke generation, providing flame resistance and durability, and reducing the number of antennas required;
- Apparel and equipment that provide protection in extreme environments and against chemical warfare agents;
- Ultra-high frequency wire and cable insulation used for navigation, electronic flight control (i.e., fly-by-wire), control, and aircraft communications;
- High- and low- temperature brake and hydraulic fluids used in military aircraft control systems;
- Chemical-resistant tubes, hoses, and fluid seals;
- Seals, gaskets, and binders in military drive trains (electric and internal combustion) for ground, sea and air platforms.

PFAS helps make possible advanced technologies that give our military personnel the tools to accomplish their missions and return home safely.

PFAS chemistries in commerce today have been approved by regulators for use. Many manufacturers of PFAS in the U.S. and elsewhere have phased out production of long-chain chemistries, including PFOA and PFOS, and major fluoropolymer manufacturers have made substantial investments in emissions reduction.¹



All PFAS are not the same, and overly broad regulations threaten access to these critical chemistries.

¹ Korzeniowski et al. [A critical review of the application of polymer of low concern regulatory criteria to fluoropolymers II: Fluoroplastics and fluoroelastomers](#). June 2022.

HR-109

Submitted on: 3/21/2023 3:08:23 PM

Testimony for EEP on 3/28/2023 11:05:00 AM

Submitted By	Organization	Testifier Position	Testify
Cards Pintor	Individual	Support	Written Testimony Only

Comments:

Aloha,

I support this resolution. Ola i ka wai!!

Mahalo nui,

Cards Pintor

HR-109

Submitted on: 3/23/2023 5:48:46 PM

Testimony for EEP on 3/28/2023 11:05:00 AM

Submitted By	Organization	Testifier Position	Testify
B.A. McClintock	Individual	Support	Written Testimony Only

Comments:

Please support this bill bill. Mahalo.

HR-109

Submitted on: 3/27/2023 11:00:59 AM

Testimony for EEP on 3/28/2023 11:05:00 AM

Submitted By	Organization	Testifier Position	Testify
Sherry Pollack	Individual	Comments	Written Testimony Only

Comments:

While I appreciate the intent of this resolution, ‘requesting’ is too polite. Urging “all branches of the United States military operating in Hawaii to implement changes in their policies to reduce, to the extent possible, the use of products containing perfluoroalkyl and polyfluoroalkyl substances” is insufficient to address this crisis. Oahu is already suffering from the contamination of these forever-chemicals due to the Navy’s criminal negligence at Red Hill. Hawaii cannot afford to further risk contamination of our finite resources and risk the health of our communities. Our State lawmakers and Congressional Delegation need to *demand* these measures listed in this resolution, “urging” is not enough.