Air Force Response to PFOS/PFOA Fact Sheet As of June 2019

Background: What are PFOS and PFOA?

Perfluorooctane sulfonate, PFOS, and perfluorooctanoic acid, PFOA, are synthetic fluorinated organic compounds used in many industrial and consumer products such as nonstick cookware, stain-resistant fabric and carpet and some food packaging.

Commonly grouped with other synthetic fluorinated chemicals using the umbrella term Perfluourinated Compounds, or PFCs, PFOS and PFOA are the only two compounds with established lifetime health advisories for drinking water.

- In 1970, the Air Force began using Aqueous Film Forming Foam (AFFF), which contains PFOS/PFOA. AFFF is the most efficient extinguishing method for petroleum fires and is widely used across the firefighting industry, to include all commercial airports, to protect people and property.
- The Air Force Civil Engineer Center (AFCEC) began a comprehensive assessment process in 2010 to identify locations where PFOS/PFOA may have been released across the Air Force at active, Reserve, Air National Guard and closed installations.
- On May 19, 2016, the Environmental Protection Agency established a Lifetime Health Advisory (LHA) level of 70 parts per trillion for a combined concentration of PFOA and PFOS in drinking water. These two compounds are classified as emerging contaminants due to evolving regulatory standards.

Air Force Response

AFCEC is taking a three-step approach – identify, respond, prevent – to assess and respond to potential PFOS/PFOA drinking water contamination.

- In 2017, the Air Force completed enterprise-wide sampling of drinking water at all installations stateside and overseas to ensure drinking water supplies meet EPA guidelines.
- In the United States, AFCEC is conducting additional sampling to identify potential AFFF releases, determine the extent of the PFOS/PFOA contamination and map possible pathways to drinking sources.

CERCLA

The Air Force's investigation work and response actions are guided by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), applicable state laws and the EPA's LHA for drinking water.

The Air Force is moving forward aggressively in accordance with the CERCLA process to identify, define and respond to potential contamination resulting from legacy Air Force mission activities. Following the CERCLA process makes certain thorough investigative work is done; the process also promotes accountability, community involvement and long-term protectiveness.

Identify — Respond — Prevent

The following chart outlines the Air Force's three-step approach to identifying releases, investigating and responding to drinking water contamination and preventing future contamination.

IDENTIFY releases, investigate PFOS/PFOA -

Preliminary Assessment

In the United States, the Air Force is conducting base-wide records reviews to identify fire training areas, crash sites and areas at installations where AFFF was used.

* As of summer 2019, 99 percent of PAs are complete.

Site Inspection

Once the PA identifies potential AFFF release areas, AFCEC conducts groundwater, surface water, soil and sediment sampling to verify releases and map possible pathways to drinking water sources.

If SI sampling indicates potential pathways to off-base drinking water supplies, AFCEC may test public water systems and private wells.

Once the SI is complete, AFCEC determines if the investigation yielded adequate data to fully map contamination or if more investigation work is needed.

RESPOND to drinking water contamination —

Response Action

When AFCEC determines PFOS/PFOA levels exceed the LHA in drinking water due to the Air Force mission, the Air Force will reduce risk and, if needed, provide an alternate drinking water source, like bottled water, until a permanent solution is in place. Permanent solutions may include installation of a filtration system or connecting impacted private well owners to a public drinking water supply.

If sample results are detectable but below the LHA in drinking water, the Air Force may conduct additional sampling as needed to track level changes and determine if further action is necessary.

PREVENT future contamination -

AFFF Replacement

The Air Force is replacing legacy AFFF in fire vehicles, stockpiles and hangar systems with a more environmentally responsible formulation.

Retrofit fire vehicles

The Air Force is retrofitting fire vehicles with a system that prevents foam discharge during equipment testing and training. As of June 2019, retrofitting approximately 850 fire trucks is 96 percent complete.

Air Force Installation and Mission Support Center Office of Public Affairs 2261 Hughes Ave, Ste 155, Joint Base San Antonio-Lackland TX 78236-9853 (210) 925-0956 <u>AFIMSC.PA.Workflow@us.af.mil</u>