

PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS)



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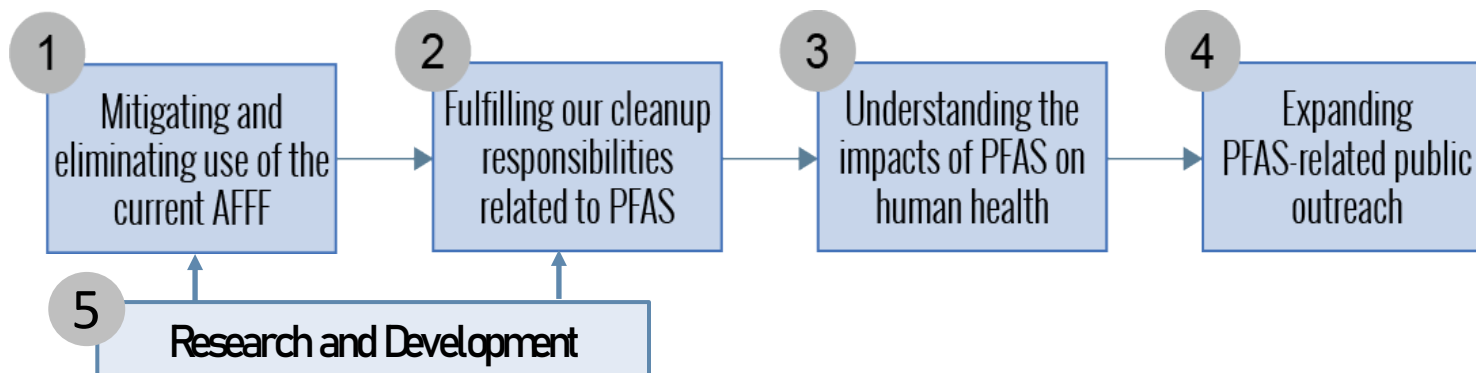
March 8, 2023



DOD PFAS EFFORTS: OVERVIEW

The DoD PFAS Task Force (10 USC 2714); Responsible for Ensuring DoD is Addressing PFAS in a Consistent and Holistic Manner across the Department

- Chaired by the Assistant Secretary of Defense for Energy, Installations, & Environment (ASD(EI&E)) and members include ASDs from each Military Department and Health Affairs
- *Oversees all PFAS activities across DoD with five main focus areas:*

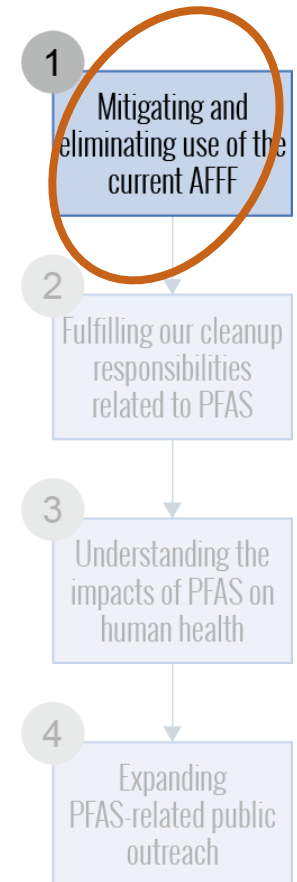


PFAS TASK FORCE: MITIGATING AND ELIMINATING USE OF THE CURRENT AFFF



AFFF Replacement: DoD Published a Military Specification (MilSpec) for a Fluorine-Free Firefighting Foam in January 2023 and is Beginning the Transition to AFFF Alternatives

- Stopped using AFFF for land-based testing or training – unless it can be completely contained and disposed
- Products are currently being qualified under the MilSpec and should be available for purchase this summer
- Alternative technologies also available (e.g., floor drains, water systems)
- Working closely with the Federal Aviation Administration and other Federal agencies
- FY2020 NDAA: Stop buying AFFF by October 1, 2023 and using by October 1, 2024 – 2026



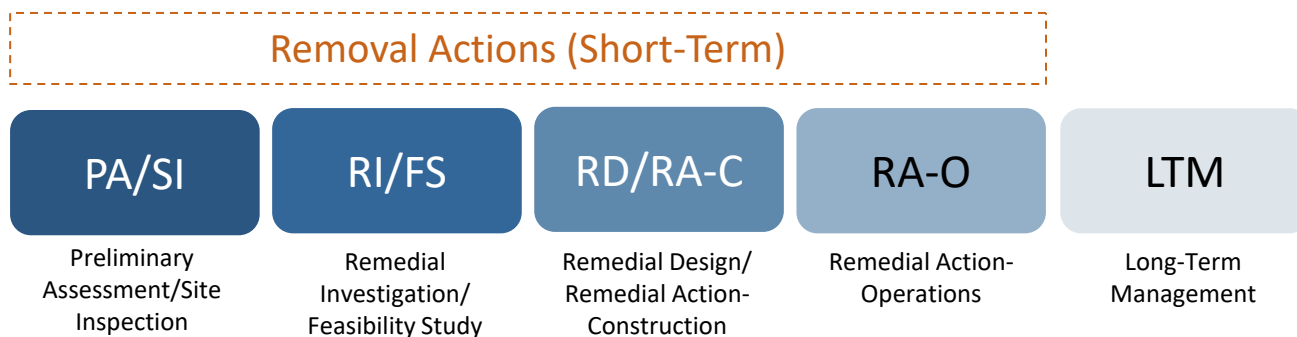
PFAS TASK FORCE: FULFILLING OUR CLEANUP RESPONSIBILITIES RELATED TO PFAS



PFAS Cleanup: DoD is committed to cleaning up our PFAS releases as quickly as possible. We have already addressed drinking water - above EPA's guidance levels of 70 ppt, and are continuing long-term cleanup actions to fully address soil and groundwater.

DOD FOLLOWS THE FEDERAL CLEANUP LAW – CERCLA

- DOD follows the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (also known as “Superfund”) and long-standing EPA regulations for all chemicals in our cleanup program, including PFAS

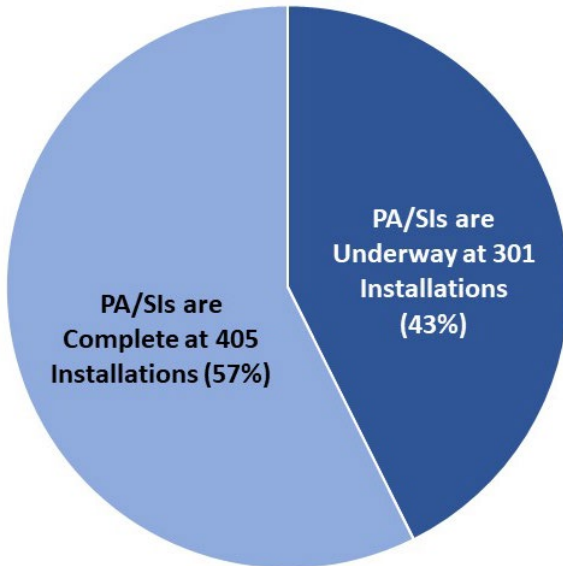
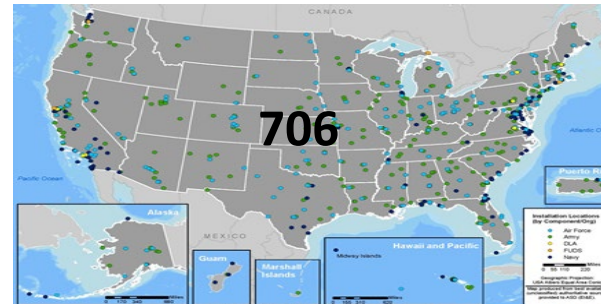


PFAS TASK FORCE: FULFILLING OUR CLEANUP RESPONSIBILITIES RELATED TO PFAS



FY2022 NDAA REQUIRES PA/SI COMPLETION BY DECEMBER 27, 2023

- On track to complete 99% by the deadline - *as of Dec 31, 2022*
- Challenges exist that could affect DoD meeting the requirement (e.g., changing EPA screening levels)



Installations/Locations	Non-BRAC	BRAC
Installations/Locations Being Assessed (PA/SI) (706)	590	116
PA/SI Complete (405)	336	69
RI Initiated (264)	231	33
Removal Actions (53)	39	14
PFAS FY22 Actuals (\$536M)	\$417M	\$119M
PFAS FY23 Planned (\$541M)	\$294M	\$247M

DoD has obligated \$2 billion through FY2022 - *total future cost - unknown*



PFAS TASK FORCE: RESEARCH AND DEVELOPMENT

Research and Development: DoD is investing in research and development to advance technologies to expedite PFAS cleanup and supports over 200 technology development and demonstration projects

- DOD has invested over \$160M through Fiscal Year 2022 with another \$60M planned through FY2025
- DOD supports over 200 technology development and demonstration projects including:
 - *Development of analytical methods for PFAS in media other than drinking water*
 - Rapid, in-field analysis methods for mapping of impacted areas
 - Determination of pathways for PFAS migration in soil
 - Destruction methods for PFAS that do not involve incineration

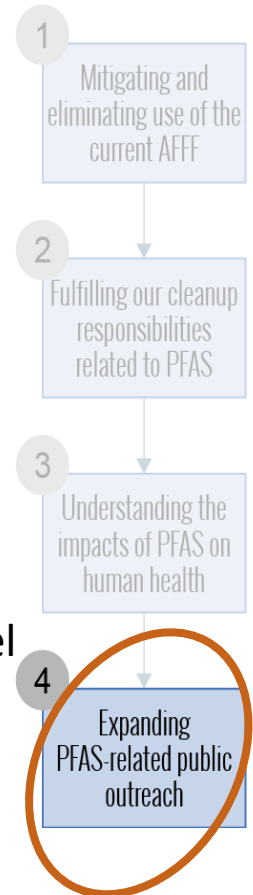
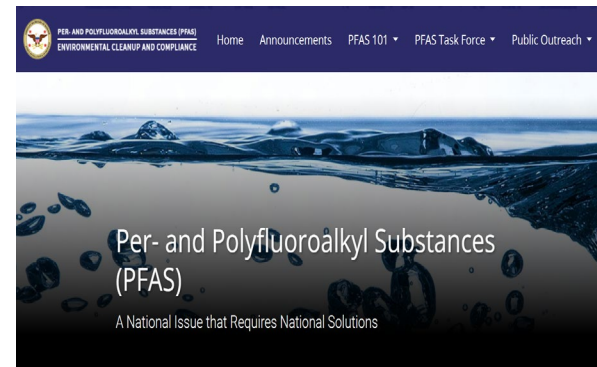


PFAS TASK FORCE: EXPANDING PFAS-RELATED PUBLIC OUTREACH



Public Outreach: DoD is working to enhance communication and outreach with stakeholders, including PFAS-impacted communities across the country

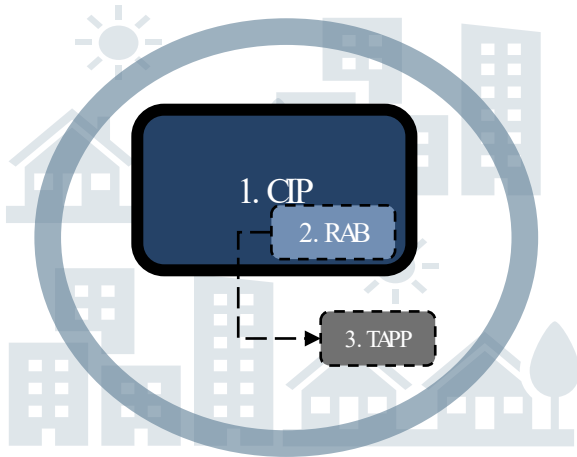
- PFAS Communications Strategy
- Increased the availability and functionality to search DoD PFAS information/data
- Increasing public engagement at both the ASD(EI&E) and local level
- Augmenting existing risk communication training for installation personnel
- Identifying additional formats or platforms for presenting information
- Developing mechanisms to improve communication based on public feedback (e.g., interview communities to establish best practices)



PFAS TASK FORCE: EXPANDING PFAS-RELATED PUBLIC OUTREACH



Public involvement: Communications, Outreach, & Transparency



DoD tailors outreach and communication to meet community needs and engage the community throughout the cleanup process

- Community Involvement Plan (**CIP**)
- Restoration Advisory Board (**RAB**)
- Technical Assistance for Public Participation (**TAPP**)

Three main tools promote **community engagement** and maximize transparency, public participation, and collaboration during the cleanup process

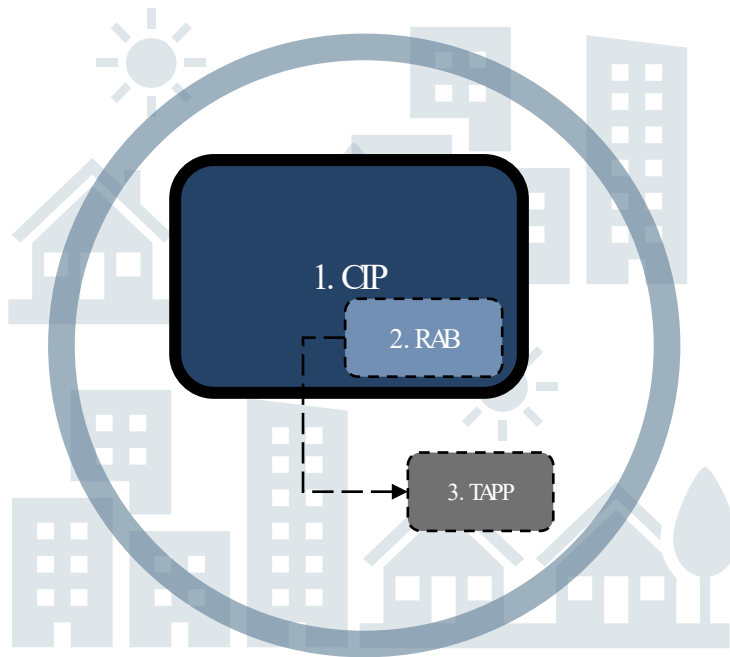


DoD values and considers stakeholders' needs and concerns; decisions are more implementable, effective, and accepted



PFAS TASK FORCE: EXPANDING PFAS-RELATED PUBLIC OUTREACH

Public involvement: Looking ahead



Solicit and integrate public feedback

- Public outreach events
- Community interviews
- Observe RAB meetings

Improve communication

- Promote communication tools
- Revise the RAB Handbook
- Augment Risk Communication training

Process improvement

- Assess existing CIPs and RABs
- Track TAPP funding requests
- Assist TAPP application process

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defense.gov/pfas