

ASSISTANT SECRETARY OF DEFENSE

3500 DEFENSE PENTAGON WASHINGTON, DC 20301-3500

OCT 15 1019

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY (INSTALLATIONS, ENERGY AND ENVIRONMENT)

ASSISTANT SECRETARY OF THE NAVY (ENERGY, INSTALLATIONS AND ENVIRONMENT)

ASSISTANT SECRETARY OF THE AIR FORCE (INSTALLATIONS, ENVIRONMENT AND ENERGY)

DIRECTOR, NATIONAL GUARD BUREAU (JOINT STAFF, J8)

DIRECTOR, DEFENSE LOGISTICS AGENCY

SUBJECT: Per- and Polyfluoroalkyl Substances Cleanup Cost Reporting

The Secretary of Defense created a Per- and Polyfluoroalkyl Substances (PFAS) Task Force to manage growing health concerns over releases of these substances and the effects on military installations and their surrounding communities. To support the Department's efforts, we need visibility of the costs associated with the investigation and cleanup of PFAS releases¹ caused by past Department of Defense (DoD) activities, including the National Guard and Reserves. This information will enable the Department to quantify investments in PFAS actions and demonstrate DoD's commitment to protecting human health and meeting our cleanup obligations.

Therefore, I am establishing a new reporting requirement for funding data associated with investigating and cleaning up PFAS at Environmental Restoration Account-funded, Base Realignment and Closure Account-funded, and Operation and Maintenance accounts for the National Guard-funded sites. Using the attached template, each DoD Component shall report the following:

- Actual obligations to investigate and clean up PFAS through the end of FY 2018;
- Actual obligations to investigate and clean up PFAS in FY 2019;
- Planned obligations to investigate and clean up PFAS in FY 2020; and
- The estimated cost to investigate and clean up PFAS after FY 2020.

The completed template is due to my office by November 15, 2019. We will incorporate this reporting into the Environmental Management Review process and reevaluate the requirement annually to ensure we continue collecting the appropriate data. My point of contact is Ms. Deborah Morefield at 703-571-9067 or deborah.a.morefield.civ@mail.mil.

Robert H. McMahon

Attachment: As stated

¹ Currently there are only three PFAS – perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and perfluorobutanesulfonic acid (PFBS) – with toxicity values that DoD can use to perform a baseline risk assessment and determine whether remedial action is needed under the federal cleanup law.

State/Territory	Installation Name	Fund	The second secon	bligations 2018 (\$000)		ligations in 9 (\$000)		oligations in 0 (\$000)		Cost after 0 (\$000)
Calcifolinory	in Ganation Hame	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Alabama	Fort Rucker	Active								,
Alaska	Fort Greely	Active								
Alaska	Fort Greely	BRAC								
Alaska	Fort Wainwright	Active								
Arizona	Camp Navajo	ARNG								
Arizona	NG Tempe Readiness Center AZ	ARNG								
Arizona	Silver Bell Army Heliport AZ (Marana, AZ) (98th Aviation Troop Command)	ARNG								
Arizona	Yuma Proving Ground/Kofa Firing Range	Active								
California	Camp Roberts Building 7020 (Former Fire Training Area, CPRO-39)	ARNG								
California	Fort Hunter Liggett	USAR								
California	Fort Irwin	Active)			
California	Fort Ord	BRAC			1		1			B-0-6. 0
California	Los Alamitos JFTB	ARNG					1			
California	Sacramento AASF	ARNG					A SET - S			
Colorado	Fort Carson Army Base/SWMU 24/Fire Training Area	Active								
Georgia	Fort Stewart, GA	Active				- T				
Georgia	Hunter Army Airfield	Active								
Indiana	MUTC Butlerville, IN	ARNG								
Indiana	Range 36 ATG, IN	ARNG		1					1 6	
Indiana	Shelbyville AASF	ARNG								
Kansas	ASF New Century	USAR								
Kansas	Fort Leavenworth	Active		7						
Kentucky	Fort Campbell	Active								
Kentucky	Fort Knox	Active		· — —						
Louisiana	Camp Minden Traing Site former LAAP									
Maine	Bangor AFRC	ARNG	1.							
Maine	Brunswick AFRC	ARNG						2 43		
	USAG Kwajalein Atoll	Active								
Maryland	Aberdeen Proving Ground	Active					1 - 1			
Maryland	Fort George G. Meade property (1988 BRAC)	BRAC								

State/Territory	Installation Name	Fund		oligations 2018 (\$000)		ligations in 9 (\$000)	EDISH PALICIA A DEPARTMENT OF THE	oligations in 0 (\$000)	BILLION SHOW AND SHOW SHOW THAT	Cost after 0 (\$000)
,		Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Massachusetts	Devens	BRAC					1, 2, 2, 2, 3			
Massachusetts	Sudbury	BRAC							9	
Michigan	Camp Grayling	ARNG							. —	
Montana	ARNG ARMORY (JFHQ MT ARNG)	ARNG								
Montana	Helena AASF	ARNG								
New Hampshire	Former Crash Fire Station, Building 241	ARNG						1		
New Hampshire	State Military Reservation	ARNG								
New York	AASF 1 RONKONKOMA NY	ARNG								
New York	AASF 2 ROCHESTER NY	ARNG				,				
New York	AASF 3 NY	ARNG								
New York	Fort Drum	Active			-					
New York	Seneca Army Ammunition Plant	BRAC					J			
North Carolina	Fort Bragg	Active	J.							
Oklahoma	Fort Sill	Active								
Oregon	Umatilla Chemical Depot/Well #4/Sample # 16-6746-AZW6A	BRAC						- 1		
Pennsylvania	ASF Johnstown	ARNG								
Pennsylvania	Letterkenny Army Depot	Active	TELES							
Pennsylvania	N Penn	BRAC								
South Carolina	AASF Greenville	ARNG		1						
South Carolina	Fort Jackson	Active	1							
South Carolina	McEntire ANGS/AASF	ARNG								
Tennessee	Jackson Airport Armory	ARNG								
Tennessee	Joint Base Berry Field	ARNG								
Tennessee	Smyrna Volunteer Training Site	ARNG								
Texas	Austin Bergstrom Hangar	ARNG								
Texas	Grand Prairie Hangar	ARNG								
Texas	Martindale Hangar	ARNG								
Vermont	Ethan Allen Firing Range	ARNG	-	-						1
Virginia	Camp Pendleton SMR	ARNG							3	
Virginia	Fort Lee	Active								
Virginia	Fort Pickett	ARNG								
Washington	JB Lewis McChord	Active								
Washington	Yakima Training Center	Active								
Wisconsin	Fort McCoy/North Post	USAR					-			_
Wyoming	ARNG Facility Casper, Wyoming	ARNG								

State/Territory	Installation Name	[PASSES AND]	Actual Ob through FY	170 T. A. ST. SCHOOL CO. THE VI.		igations in 9 (\$000)	THE NEW YORKS AND SERVICE STATES	oligations in 0 (\$000)		Cost after (\$000)
		Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Wyoming	Garrison Bldg 15 Guernsey, WY	ARNG								
		Totals:	0	0	0	0	0	0	0	0

This list of installations with a known or suspected release of PFOS/PFOA is based on information as of December 31, 2016, and verified in July 2018.

Definitions:

- An installation is a base, camp, post, station, yard, center, homeport facility for any ship, or other activity under the jurisdiction of the DoD, including any leased facility, that is located within the United States. Does NOT include FUDS or any facility used primarily for civil works, rivers and harbors projects, or flood control projects.
- 2. The investigation phases are PA, SI, and RI/FS.
- 3. The cleanup phases are IRA, RD, RA-C, and RA-O. Funding for removal actions and other mitigation activities (e.g., providing alternative drinking water) should be captured in the IRA phase.

- For each installation, provide actual obligations through FY 2018, actual obligations in FY 2019, planned obligations in FY 2020, and the
 estimated cost after FY 2020 to investigate and clean up PFAS, as appropriate. Provide the funding separately for investigations and
 cleanup.
- 2. Base the estimated cost to investigate and clean up PFAS after FY 2020 on the information available to you as of the end of FY 2019.
- 3. Only include funding for investigating and cleaning up releases of PFAS caused by past DoD activities at Environmental Restoration Account-funded and BRAC Account-funded sites, and for investigating and cleaning up releases of PFAS caused by National Guard activities at Army Guard O&M-funded sites. Do not include funding for investigating and cleaning up other contaminants at sites where you are also investigating and cleaning up PFAS.
 - If you obligated/plan to obligate Environmental Restoration Account funding to conduct a PA and/or SI and Army Guard O&M funding to conduct additional investigations and/or cleanup at a National Guard facility, add a second row for that facility, update Column C to reflect the associated fund source, and report the cost data accordingly.
- 5 Installations with active and BRAC sites are listed twice; report Environmental Restoration Account funding and BRAC Account funding separately for these installations.
- 6. If you have obligated/will obligate Environmental Restoration Account, BRAC Account, or Army Guard O&M funds to investigate and/or clean up releases of PFAS at an installation that is not included in the list above, please insert that installation, along with the state/territory, fund source, and funding obligated/to be obligated at the bottom of the list.
- 7. For BRAC, include obligations of prior year funds and land sale revenue used/to be used for investigating and cleaning up PFAS.
- 8. Provide the funding in thousands of dollars (\$000).
- Send the completed template to Alex Long (alexandria.d.long.civ@mail.mil) and Deb Morefield (deborah.a.morefield.civ@mail.mil) by November 15, 2019.

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)		bligations in 0 (\$000)	The last and a boundaries	Cost after 0 (\$000)
outer rollinoity	Indianation (tallio	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	investi- gations	Cleanup	Investi- gations	Cleanup
Alaska	Adak AK NAF	BRAC								7 - 1
Alaska	AMCHITKA AK FLTSURSPTDET1	Active								
Alaska	BARROW AK NARL	Active								
Arizona	YUMA AZ MCAS	Active								
California	ALAMEDA_NAS	BRAC								
California	BARSTOW CA MCLB	Active		V						
California	CAMP PENDLETON CA MCB	Active		T 17						
California	CHINA LAKE CA NAWCWPNSDIV	Active								
California	Concord NWS	BRAC								
California	Crows NALF	BRAC		-7					1	
California	EL CENTRO CA NAF	Active								
California	El Toro MCAS	BRAC								
California	Hunters Point Annex	BRAC								
California	IMPERIAL BEACH CA NAVALF	Active			-					
California	LEMOORE CA NAS	Active	7							
California	Long Beach NS	BRAC								
California	Long Beach NSY	BRAC					7			
California	Mare Island NSY	BRAC								
California	MIRAMAR CA MCAS	Active								
California	NAS PT MUGU CA NAVAIRWARC	Active								
California	NAVBASE CORONADO	Active								
California	NAVBASE SAN DIEGO	Active								
California	NAVCOMTELSTA STOCKTON	Active								
California	PORT HUENEME CA NFELC	Active								
California	SAN DIEGO CA AUXLNDFLD	Active								
California	SAN DIEGO CA FASWTC PAC	Active								
California	SAN DIEGO CA NISE-WEST	Active								
California	SAN NICOLAS IS CA OLF	Active								
California	SEAL BEACH CA WPNSUPFAC	Active								
California	SPAWARSYSCEN PACIFIC SD	Active								
California	Treasure Island NS	BRAC								
California	Tustin MCAS	BRAC								
California	TWENTYNINE PALMS CA MAGCC	Active								
Connecticut	BLOOMFIELD CT NWIRP	Active								
Connecticut	NEW LONDON CT NSB	Active								

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)		oligations in 0 (\$000)		Cost after 0 (\$000)
		Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
District of	Was the state of the							7 1		
Columbia	ANACOSTIA DC NS	Active								
District of		Mr. T. T.					\-			
Columbia	WASHINGTON DC COMNAVDIST	Active								
District of										
Columbia	WASHINGTON DC NAVSECSTA	Active								V.
District of		17								
Columbia	WASHINGTON DC NRL	Active								
Florida	Cecil Field NAS	BRAC								
Florida	FISC JAX (NWCF)	Active								1
Florida	JACKSONVILLE FL NAS	Active	The Same							
Florida	KEY WEST FL NAS	Active		-1-1						
Florida	MAYPORT FL NS	Active								
Florida	NSWC DIV PANAMA CITY	Active								
Florida	Orlando NTC	BRAC								
Florida	PENSACOLA FL NAS	Active								
Florida	SAUFLEY FLD FL NAS	Active	J							
Florida	WHITING FLD FL NAS	Active								
Georgia	KINGS BAY GA NSB	Active								
Guam	Guam Agana NAS	BRAC								
Guam	GUAM NAVACTS	Active								
Guam	NSA ANDERSEN GUAM	Active			Sec. 10-					
Hawaii	Barbers Point NAS	Active								
Hawaii	Barbers Point NAS	BRAC								
Hawaii	BARKING SANDS HI PMRF	Active								
Hawaii	JBPHH PEARL HARBOR HI	Active								
Hawaii	KANEOHE BAY HI MCB	Active								
Hawaii	NAVFAC HAWAII P HARBOR	Active								
Hawaii	NMC EAD DET PEARL HARBOR	Active								
Tawaii	PEARL HARBOR HI FISC	Active								
Hawaii	PEARL HARBOR HI NSY	Active		- 3						
Ilinois	Glenview NAS	BRAC								-
Ilinois	GREAT LAKES IL NSTC	Active								
ndiana	NAVSURFWARCENDIV CRANE	Active								
IIIIIIII	Louisville Crane Division Det	Active								
Centucky	NOS/NSWC	BRAC	-							
.ouisiana	NEW ORLEANS LA NAS JRB	Active						5-1-1-1		

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)		oligations in 0 (\$000)		Cost after 0 (\$000)
Giatoritation	motanation ranio	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Maine	Brunswick NAS	BRAC								
Maine	NCTAMSLANT DET CUTLER	Active				4				
Maine	PORTS NSYD PORTS NH	Active		1						
Maryland	Annapolis NSWC Carderock DIV Det	BRAC								
Maryland	BAINBRIDGE MD NTC	Active								
Maryland	CHESAPEAKE BEACH MD RESLB	Active								
Maryland	INDIAN HEAD MD NSWCTRDIV	Active								
Maryland	NAVSURFWARCEN WBETH DD	Active								
Maryland	PATUXENT RIVER MD NAS	Active								
Maryland	SOLOMONS MD NRECC	Active								
Maryland	W REED NAT MIL MED CTR	Active								
	White Oak- NSWC Dahlgren DIV Det	7,714								
Maryland	(Silver Spring)	BRAC								
Massachusetts	BEDFORD MA NWRIP	Active								
Massachusetts	South Weymouth NAS	BRAC								
Midway Islands	MIDWAY ISLAND NAF	BRAC								
Minnesota	MINNEAPOLIS MN NIROP	Active								
Mississippi	GULFPORT MS NCBC	Active								
Mississippi	MERIDIAN MS NAS	Active								
Nevada	FALLON NV NAS	Active								
New Jersey	NMC DET EARLE	Active					1			
New Jersey	Trenton NAWC-AD	BRAC								
New York	BETHPAGE NY NWIRP	Active					11			
New York	CALVERTON NY NPRO	Active								
North Carolina	CAMP LEJEUNE NC MCB	Active								
North Carolina	CHERRY POINT NC MCAS	Active								
Pennsylvania	Philadelphia NS	BRAC								
Pennsylvania	Warminster NAWC AD	BRAC								
Pennsylvania	Willow Grove NASJRB	BRAC							4	
	Puerto Rico NA/NAVACT	BRAC								1+
Puerto Rico	SAN JUAN PR MCRC	Active								11
	DAVISVILLE_NCBC	BRAC								
		Active	1						T.	
	and the second s	Active			-	+ -				
South Carolina	Charleston NS	BRAC								

State/Territory	Installation Name	Fund	THE RESERVE AND THE PARTY AND	bligations 2018 (\$000)		ligations in 9 (\$000)	The state of the s	bligations in 0 (\$000)		Cost after 0 (\$000)
South Carolina Couth Carolina Fennessee Fennessee Fennessee Fexas		Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
South Carolina	Charleston NSY	BRAC							1 1-1	
South Carolina	PARRIS ISLAND SC MCRD	Active	6							
Tennessee	BRISTOL TN NWIRP	Active								
Tennessee	Memphis NAS (Millington)	Active					1			4
Tennessee	Memphis NAS (Millington)	BRAC						V		
Texas	Chase Field NAS	BRAC								
Texas	CORPUS CHRISTI TX NAS	Active								
Texas	Dallas NAS	BRAC								
Texas	DALLAS TX NWIRP	Active								
Texas	FT WORTH TX NAS JRB	Active								
Texas	KINGSVILLE TX NAS	Active								
Texas	MCCLENNAN TX NIROP	Active								
Virginia	CHESAPEAKE VA STJULCREEK	Active								
Virginia	CRANEY ISLAND VA NFD/NSC	Active								
Virginia	DAHLGREN VA NSWCTR DIV	Active								
Virginia	DAM NECK VA	Active	1							
Virginia	Driver NRTF	BRAC	1							Marie Control
Virginia	LITTLE CREEK VA NAVPHIBSE	Active								-
Virginia	NMC DET YORKTOWN	Active	100							
Virginia	NORFOLK VA NB	Active	11							
Virginia	OCEANA VA NAS	Active								
Virginia	PORTSMOUTH VA NORFOLK NSY	Active								
Virginia	QUANTICO VA MCCOMBDEV CMD	Active								
Washington	KEYPORT WA NUWC DIV	Active				100				
Washington	PUGET SOUND WA NAVSHIPYD	Active	1			14	1			
Washington	PUGET SOUND FISC MANCHESTER	Active					7			
Washington	Puget Sound NS Sand Point	BRAC				1	1			
Washington	WHIDBEY IS WA NAS	Active					76 -			
West Virginia	ROCKET CTR WVA WV ABL MNR	Active					-1			
		Totals:	0	0	0	0	0	0	0	

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Definitions:

State/Territory	Installation Name	The Revenue	I I I I I I I I I I I I I I I I I I I	bligations 2018 (\$000)		ligations in 9 (\$000)	KISLASK DIGGRAF ARSAMS	oligations in 0 (\$000)		Cost after (\$000)
		Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup

- An installation is a base, camp, post, station, yard, center, homeport facility for any ship, or other activity under the jurisdiction of the DoD, including any leased facility, that is located within the United States. Does NOT include FUDS or any facility used primarily for civil works, rivers and harbors projects, or flood control projects.
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- 6. For BRAC, include obligations of prior year funds and land sale revenue used/to be used for investigating and cleaning up PFAS.
- 7. Provide the funding in thousands of dollars (\$000).
- 8. Send the completed template to Alex Long (alexandria.d.long.civ@mail.mil) and Deb Morefield (deborah.a.morefield.civ@mail.mil) by November 15, 2019.

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)		oligations in 0 (\$000)		Cost after 0 (\$000)
otato romitory	modulation ratio	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Alabama	Birmingham International Airport	ANG								
Alabama	Maxwell Gunter AFB	Active								
Alabama	Montgomery Regional (Dannelly Field) MONTGOMERY ANGB (EESOH-MIS name)	ANG								
Alaska	Clear Air Force Station	Active								
Alaska	Eareckson AFB	Active		-						
Alaska	Eielson AFB	Active								
Alaska	Galena Forward Operating Location	BRAC								
Alaska	Joint Base Elmendorf	Active								
Alaska	King Salmon	Active								
Alaska	Kulis Air National Guard Base	BRAC								
Arizona	Air Force Plant 44	Active								
Arizona		BRAC								
Arizona	Davis-Monthan AFB	Active				0	11-16-			
Arizona	Luke AFB	Active				7				
Arizona	Sky Harbor International Airport	ANG					1	75		
Arizona	Tucson International Airport	ANG								
Arizona	Williams AFB	BRAC								
Arkansas	Eaker AFB	BRAC								
Arkansas	Ft. Smith	ANG								
Arkansas	Little Rock AFB	Active								
California	Air Force Plant 42	Active								
California	Beale AFB	Active								
California	Castle AFB	BRAC								
California	Channel Islands	ANG								1
California	Edwards AFB	Active			-					
California	The state of the s	ANG								
California		BRAC								
California		Active								
California		BRAC		(1			
California		Active							1	
California		BRAC								
California		BRAC						العصوص		
California	Moffett Field	ANG								

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)	The state of the s	oligations in 0 (\$000)		Cost after 0 (\$000)
	motanation (tains	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
California	Norton AFB	BRAC								
California	Onizuka Air Force Station	BRAC								
California	Ontario Air Force Station	BRAC								
California	Travis AFB	Active								
California	Vandenberg AFB	Active	P							
Colorado	Air Force Plant PJKS	Active								
Colorado	Buckley AFB	Active								
Colorado	Buckley Annex	BRAC								
Colorado	Cheyenne Mountain Air Force Station									
Colorado	Lowry AFB	BRAC							-	
Colorado	Peterson AFB	Active								
Colorado	Schriever AFB	Active						1		
Colorado	USAF Academy	Active								
Connecticut	Bradley International Airport	ANG								
Delaware	Dover AFB	Active								
Delaware	New Castle	ANG								
Florida	Avon Park Air Force Reserve	Active							r = 3	
Florida	Cape Canaveral Air Force Station	Active								
Florida	Eglin AFB	Active								
Florida	Homestead AFB	BRAC								
Florida	Homestead Air Reserve Base	Active					h			
Florida	Hurlburt Field	Active					-			
Florida	Jacksonville	ANG								
Florida	MacDill AFB	Active								
Florida	Patrick AFB	Active								
Florida	Tyndall AFB	Active								
Georgia	Air Force Plant 6	Active								
Georgia	Dobbins Air Reserve Base	Active	P=							
Georgia	Moody AFB	Active								
Georgia	Robins AFB	Active			r_ = 1		7			
Georgia	Savannah International Airport	ANG								
Guam	Wake Island	Active			1					
Hawaii	Bellows Air Force Station	Active								
ldaho	Boise	ANG								
ldaho	Mountain Home AFB	Active								
Illinois	Chanute AFB	BRAC						5-3-2-1		

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)		oligations in 0 (\$000)		Cost after 0 (\$000)
Otate/ Tollitory	matanation Name	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	investi- gations	Cleanup	investi- gations	Cleanup
Illinois	Greater Peoria	ANG								
Illinois	O'Hare Air Reserve Station	BRAC								
Illinois	Scott AFB	Active								
Illinois	Springfield Municipal (Capital)	ANG								
Indiana	Fort Wayne Municipal	ANG								
Indiana	Grissom AFB	BRAC								
Indiana	Grissom Air Reserve Base	Active								
Indiana	Hulman	ANG								
Iowa	Des Moines	ANG								
lowa	Sioux Gateway (Sioux City) SIOUX CTY APT ANG (EESOH-MIS name)	ANG								
Kansas	Forbes Field	ANG								
Kansas	McConnell AFB	Active								
Kentucky	Standiford Field Air National Guard	ANG								
Louisiana	Barksdale AFB	Active			-					
Louisiana	England AFB	BRAC					1			
Maine	Bangor International Airport	ANG								
Maine	Loring AFB	BRAC		1				1		
Maryland	Joint Base Andrews	Active								
Maryland	Martin State	ANG								
Massachusetts	Barnes Municipal	ANG								
Massachusetts	Hanscom AFB	Active					7			
Massachusetts	Joint Base Cape Cod (Massachusetts Military Reservation)	ANG								
Massachusetts	Westover Air Reserve Base	Active								
Michigan	Alpena	ANG								
Michigan	Calumet Air Force Station	Active								
Michigan	KI Sawyer AFB	BRAC								
Michigan	Selfridge	ANG								
Michigan		ANG								
Michigan	Wurtsmith AFB	BRAC								
Minnesota	Duluth International Airport	ANG								
Minnesota	Minneapolis-St Paul Air Reserve Station	Active								
Minnesota	Minneapolis-St Paul IAP	ANG								

State/Territory	Installation Name	Fund		bligations 2018 (\$000)		ligations in 9 (\$000)		oligations in 0 (\$000)		Cost after 0 (\$000)
	motanation rame	Source	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Mississippi	Columbus AFB	Active								1
Mississippi	Gulfport Biloxi	ANG				-		1		1
Mississippi	Jackson	ANG								
Mississippi	Keesler AFB	Active								
Mississippi	Key Field	ANG		/					4	
Missouri	Lambert St. Louis	ANG								
Missouri	Richards-Gebaur AFB	BRAC								
Missouri	Rosecrans Memorial	ANG								
Missouri	Whiteman AFB	Active								
Montana	Great Falls International Airport	ANG								
Montana	Malmstrom AFB	Active								
Nebraska	Lincoln Municipal	ANG								
Nebraska	Offutt AFB	Active								
Nevada	Creech AFB	Active								
Nevada	Nellis AFB	Active								
Nevada	Reno Tahoe	ANG								
New Hampshire	New Boston Air Force Station	Active								
New Hampshire	Pease	ANG								
New Hampshire		BRAC								
New Jersey	Atlantic City	ANG						-		
New Jersey	Joint Base McGuire-Dix-Lakehurst	Active								
New Mexico	Cannon AFB	Active								
New Mexico	Holloman AFB	Active								
New Mexico	Kirtland AFB	Active								
New York	Air Force Research Laboratory Rome	Active								
New York	Francis S. Gabreski	ANG								
New York	Griffiss AFB	BRAC								
New York	Hancock Field	ANG								
New York	Niagara Falls Air Reserve Station	Active								
New York	Plattsburgh IAP	BRAC								
New York	Roslyn Air National Guard Station	BRAC								
New York	Schenectady Airport	ANG								
New York		ANG								-
North Carolina	A CONTRACT OF THE PROPERTY OF	ANG								
North Carolina	Seymour Johnson AFB	Active								

State/Territory	Installation Name	Fund Source	Actual Obligations through FY 2018 (\$000)		Actual Obligations in FY 2019 (\$000)		Planned Obligations in FY 2020 (\$000)		Estimated Cost after FY 2020 (\$000)	
Clater remitory			Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
North Carolina	Stanly/Badin County Airport Air National Guard Base	ANG								
North Dakota	Cavalier Air Force Station	Active					-			
North Dakota	Grand Forks AFB	Active								
North Dakota	Hector Field	ANG								
North Dakota	Minot AFB	Active								
Ohio	Air Force Plant 36	Active								
Ohio	Air Force Plant 85	Active								
Ohio	Gentile Air Force Station	BRAC								
Ohio	Mansfield	ANG			V.					
Ohio	Newark AFB	BRAC								
Ohio	Rickenbacker	ANG								
Ohio	Rickenbacker Air National Guard Base	BRAC								
Ohio	Springfield-Beckley Municipal	ANG								
Ohio	Toledo Express	ANG								
Ohio	Wright Patterson AFB	Active								
Ohio	0	Active							-	
Oklahoma	Youngstown Air Reserve Station Air Force Plant 3	Active								
3.13.31.31.3	Altus AFB									
Oklahoma		Active	-			-				
Oklahoma	Tinker AFB	Active							-	
Oklahoma	Tulsa International Airport	ANG								
Oklahoma	Vance AFB/Kegelman	Active								
Oklahoma	Will Rogers International Airport	ANG	1							
Oregon Oregon	Klamath Falls Portland International Airport PORTLAND (EESOH-MIS name)	ANG								
Pennsylvania	Harrisburg International Airport	ANG		-						
	Horsham WILLOW GROVE ANG (EESOH-MIS name)	ANG								
Pennsylvania	Pittsburgh Air Force	Active								
Pennsylvania	Pittsburgh Air National Guard Base	ANG								
and the second second	Puerto Rico Munoz International Airport LUIS MUNOZ MARIN (EESOH-MIS	ANG								

State/Territory	Installation Name	Fund Source	Actual Obligations through FY 2018 (\$000)		Actual Obligations in FY 2019 (\$000)		Planned Obligations in FY 2020 (\$000)		Estimated Cost after FY 2020 (\$000)	
Cutorionicory			Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Rhode Island	Quonset Point State Airport	ANG								
South Carolina	Joint Base Charleston	Active								
South Carolina	McEntire Air Guard	ANG						12		
South Carolina	Myrtle Beach AFB	BRAC								
South Carolina	Shaw AFB	Active								
South Dakota	Ellsworth AFB	Active								
South Dakota	Joe Foss Field (Sioux Falls)	ANG						100000		
Tennessee	Arnold AFB	Active								
Tennessee	McGhee-Tyson	ANG								
Tennessee	Memphis International Airport	ANG								
Tennessee	Nashville Metro	ANG								
Texas	Air Force Plant 4	Active	0							
Texas	Bergstrom AFB	BRAC								
Texas	Brooks-City Base	BRAC								(Sec. 1987)
Texas	Carswell AFB	BRAC								
Texas	Dyess AFB	Active								
Texas	Ellington Field	ANG								
Texas	Goodfellow AFB	Active								
Texas	Joint Base San Antonio - Lackland, Randolph, Ft Sam Houston, Camp Bullis	Active								
Гехаѕ	Kelly AFB	BRAC			4	7				
Гехаs	Laughlin AFB	Active				7				
Гехаѕ	Reese AFB	BRAC								
Гехаѕ	Sheppard AFB	Active								
Jtah	Hill AFB	Active				5	- W			
Jtah	Salt Lake City	ANG								
/ermont	Burlington	ANG								
/irginia	Joint Base Langley-Eustis	Active						V		
/irginia	Richmond International Airport Byrd Field	ANG								
	Fairchild AFB	Active						5		
Vashington	Four Lakes Air National Guard Station									
Vest Virginia		ANG								
Vest Virginia	Yeager (McLaughlin)	ANG								

State/Territory	Installation Name	Fund Source	Actual Obligations through FY 2018 (\$000)		Actual Obligations in FY 2019 (\$000)		Planned Obligations in FY 2020 (\$000)		Estimated Cost after FY 2020 (\$000)	
			Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Wisconsin	General Mitchell	ANG			27		[- T			
Wisconsin	General Mitchell Air Reserve Station	BRAC		100						
Wisconsin	Truax Field	ANG						- A		
Wisconsin	Volk Field	ANG	11							
Wyoming	Cheyenne Municipal	ANG								
Wyoming	FE Warren AFB	Active								
-		Totals:	0	0	0	0	0	0	0	

This list of installations with a known or suspected release of PFOS/PFOA is based on information as of December 31, 2016, and verified in July 2018.

State/Territory	Installation Name	Fund Source	Actual Obligations through FY 2018 (\$000)				Planned Obligations in FY 2020 (\$000)		Estimated Cost after FY 2020 (\$000)	
			investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup

Definitions:

- An installation is a base, camp, post, station, yard, center, homeport facility for any ship, or other activity under the jurisdiction of the DoD, including any leased facility, that is located within the United States. Does NOT include FUDS or any facility used primarily for civil works, rivers and harbors projects, or flood control projects.
- 2. The investigation phases are PA, SI, and RI/FS.
- The cleanup phases are IRA, RD, RA-C, and RA-O. Funding for removal actions and other mitigation activities (e.g., providing alternative drinking water) should be captured in the IRA phase.

- For each installation, provide actual obligations through FY 2018, actual obligations in FY 2019, planned obligations in FY 2020, and the
 estimated cost after FY 2020 to investigate and clean up PFAS, as appropriate. Provide the funding separately for investigations and
 cleanup.
- 2. Base the estimated cost to investigate and clean up PFAS after FY 2020 on the information available to you as of the end of FY 2019.
- 3. Only include funding for investigating and cleaning up releases of PFAS caused by past DoD activities at Environmental Restoration Account-funded and BRAC Account-funded sites, and for investigating and cleaning up releases of PFAS caused by National Guard activities at Air Guard O&M-funded sites. Do not include funding for investigating and cleaning up other contaminants at sites where you are also investigating and cleaning up PFAS.
- 4. If you obligated/plan to obligate Environmental Restoration Account funding to conduct a PA and/or SI and Air Guard O&M funding to conduct additional investigations and/or cleanup at a National Guard facility, add a second row for that facility, update Column C to reflect the associated fund source, and report the cost data accordingly.
- Installations with active and BRAC sites are listed twice; report Environmental Restoration Account funding and BRAC Account funding separately for these installations.
- 6. If you have obligated/will obligate Environmental Restoration Account, BRAC Account, or Air Guard O&M funds to investigate and/or clean up releases of PFAS at an installation that is not included in the list above, please insert that installation, along with the state/territory, fund source, and funding obligated/to be obligated at the bottom of the list.
- 7. For BRAC, include obligations of prior year funds and land sale revenue used/to be used for investigating and cleaning up PFAS.
- 8. Provide the funding in thousands of dollars (\$000).
- Send the completed template to Alex Long (alexandria.d.long.civ@mail.mil) and Deb Morefield (deborah.a.morefield.civ@mail.mil) by November 15, 2019.

State/Territory	Installation Name	Fund Source	Actual Obligations through FY 2018 (\$000)		Actual Obligations in FY 2019 (\$000)		Planned Obligations in FY 2020 (\$000)		Estimated Cost after FY 2020 (\$000)	
			Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup	Investi- gations	Cleanup
Florida	DFSP Tampa	Active								
New Hampshire	DFSP Newington	Inactive	21							
	DFSP Verona	Active								
Pennsylvania	Defense Distribution Center Susquehanna	Active								
Virginia	Defense Supply Center Richmond	Active) =				
		Totals:	0	0	0	0	0	0	0	0

This list of installations with a known or suspected release of PFOS/PFOA is based on information as of December 31, 2016, and verified in July 2018.

Definitions:

- An installation is a base, camp, post, station, yard, center, homeport facility for any ship, or other activity under the jurisdiction of the DoD, including any leased facility, that is located within the United States. Does NOT include FUDS or any facility used primarily for civil works, rivers and harbors projects, or flood control projects.
- 2. The investigation phases are PA, SI, and RI/FS.
- 3. The cleanup phases are IRA, RD, RA-C, and RA-O. Funding for removal actions and other mitigation activities (e.g., providing alternative drinking water) should be captured in the IRA phase.

- For each installation, provide actual obligations through FY 2018, actual obligations in FY 2019, planned obligations in FY 2020, and the
 estimated cost after FY 2020 to investigate and clean up PFAS, as appropriate. Provide the funding separately for investigations and
 cleanup.
- 2. Base the estimated cost to investigate and clean up PFAS after FY 2020 on the information available to you as of the end of FY 2019.
- Only include funding for investigating and cleaning up releases of PFAS caused by past DoD activities at Environmental Restoration Accountfunded and BRAC Account-funded sites. Do not include funding for investigating and cleaning up other contaminants at sites where you are also investigating and cleaning up PFAS.
- 4. If you have obligated/will obligate Environmental Restoration Account or BRAC Account funds to investigate and/or clean up releases of PFAS at an installation that is not included in the list above, please insert that installation, along with the state/territory, fund source, and funding obligated/to be obligated at the bottom of the list.
- 5. For BRAC, include obligations of prior year funds and land sale revenue used/to be used for investigating and cleaning up PFAS.
- 6. Provide the funding in thousands of dollars (\$000).
- Send the completed template to Alex Long (alexandria.d.long.civ@mail.mil) and Deb Morefield (deborah.a.morefield.civ@mail.mil) by November 15, 2019.