



THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON  
WASHINGTON, DC 20301-3010

ACQUISITION  
AND SUSTAINMENT

The Honorable Jim Langevin  
U.S. House of Representatives  
Washington, DC 20515

MAR 22 2019

Dear Representative Langevin:

Thank you for your January 25, 2019 letter to the Acting Secretary of Defense on the "Report on Effects of a Changing Climate to the Department of Defense." I am responding on his behalf.

For our report, we used an existing list of installations based on the importance of their operational roles, i.e., the Mission Assurance Priority Installation list. Using this list of 79 installations ensured that climate considerations were connected to continued operational viability and resilience requirements. This Mission Assurance focus also allowed the report to avoid installations, like coastal recreation facilities, that may be proximate to potential flooding but are not mission-critical. Marine Corps installations were considered but ultimately not included in the Mission Assurance Priority Installation list; we are happy to discuss additional details about this list in a secure environment.

Enclosed is a top ten list for each Military Department derived from the original list of 79 Mission Assurance Priority Installations that we submitted on January 17, 2019. This list includes scoring and weighting of the five climate-related hazards (recurrent flooding, wildfire, drought, desertification, and permafrost thaw) based on immediacy of the threat.

The Department has been and will continue to be proactive in developing comprehensive policy, guidance, and tools to mitigate potential climate impacts, with a focus on robust infrastructure, sound land management policies, and increased energy resilience.

As always, we are prepared to speak with you. We look forward to working with you to make a more resilient Department of Defense. An identical letter has been sent to the other signatories of your letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Ellen M. Lord", is written over a light blue horizontal line.

Ellen M. Lord

Enclosure:  
As stated

**DEPARTMENT OF NAVY**

Installation	State	Weighting Factor												Weighted Sum			
		Recurrent Flooding		Drought		Desertification		Wildfires		Thawing Permafrost		Current	Potential	Current + Potential			
		3.75	3	2.5	2	1.25	1	3.75	3	1.25	1						
Naval Air Station (NAS) Key West	FL	1	1	1	1	0	0	0	1	0	0	0	0	0	6.25	8	14.25
Naval Submarine Base (NSB) Kings Bay	GA	1	1	1	1	0	0	0	1	0	0	0	0	0	6.25	8	14.25
U.S. Territory - Naval Base Guam	Guam	1	1	1	1	0	0	0	1	0	0	0	0	0	6.25	8	14.25
Joint Base (JB) Pearl Harbor Hickam	HI	1	1	1	1	0	0	0	1	0	0	0	0	0	6.25	8	14.25
Wahaiwa Annex	HI	1	1	1	1	0	0	0	1	0	0	0	0	0	6.25	8	14.25
Naval Magazine Indian Island	WA	1	1	1	1	0	0	0	1	0	0	0	0	0	6.25	8	14.25
Naval Base (NB) Coronado	CA	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Naval Base (NB) San Diego	CA	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Joint Base (JB) Anacostia Bolling	DC	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Washington Navy Yard	DC	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
U.S. Territory - Andersen AFB	Guam	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Naval Support Facility (NSF) Indian Head	MD	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Naval Air Station (NAS) Oceana	VA	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Naval Station (NS) Norfolk	VA	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Naval Support Activity (NSA) Hampton Roads	VA	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25
Naval Support Activity (NSA) Hampton Roads - Northwest / (former) Naval Security Group Activity (NSGA) Chesapeake	VA	1	1	1	1	0	0	0	0	0	0	0	0	0	6.25	5	11.25

Current = Historical occurrence  
 Potential = Likely to happen within next 20 years

AIR FORCE		Weighting Factor		Recurrent Flooding		Drought		Desertification		Wildfires		Thawing Permafrost		Weighted Sum		
		Installation	State	3.75	Potential	2.5	Potential	1.25	Potential	3.75	Potential	1.25	Potential	Current	Potential	Current
Hill Air Force Base (AFB)*	UT	1	1	1	1	1	1	1	1	1	1	0	0	11.25	9	20.25
Beale Air Force Base (AFB)	CA	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Vandenberg Air Force Base (AFB)	CA	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Greeley Air National Guard Station (ANGS)	CO	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Eglin Air Force Base (AFB)	FL	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Patrick Air Force Base (AFB)	FL	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Joint Base (JB) Andrews	MD	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Malmstrom Air Force Base (AFB)	MT	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Tinker Air Force Base (AFB)	OK	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Shaw Air Force Base (AFB)	SC	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
Joint Base (JB) San Antonio (aka JB Lackland / Sam Houston / Randolph)	TX	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18

\* Applies to Hill AFB Current & Potential Wildfire: Answers are only for installation sites within the main base. When associated ranges are included, answer is Yes.

Current = Historical occurrence  
 Potential = Likely to occur within next 20 years

ARMY		Weighting Factor		Recurrent Flooding		Drought		Desertification		Wildfires		Thawing Permafrost		Weighted Sum		
				3.75	3	2.5	2	1.25	1	3.75	3	1.25	1	Current	Potential	Current
Installation	State	Current	Potential	Current	Potential	Current	Potential	Current	Potential	Current	Potential	Current	Potential	Current	Potential	Current + Potential
Fort Hood	TX	1	1	1	1	0	0	0	0	1	1	0	0	10	8	18
U.S. Southern Command Headquarters-Miami	FL	1	1	0	0	0	0	0	0	1	1	0	0	7.5	6	13.5
Military Ocean Terminal Concord (MOTCO)	CA	1	1	1	1	0	0	0	0	0	0	0	0	6.25	5	11.25
National Ground Intelligence Center (NGIC) Charlottesville*	VA	1	1	1	1	0	0	0	0	0	0	0	0	6.25	5	11.25
Camp Roberts	CA	0	1	1	1	1	1	1	1	0	0	0	0	3.75	6	9.75
Reagan Operations Center-Huntsville	AL	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Pine Bluff Arsenal	AR	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Fort Gordon	GA	0	0	0	0	0	0	0	0	1	1	0	0	3.75	3	6.75
Fort Shafter	HI	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Fort Detrick	MD	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Fort Meade	MD	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Lake City Army Ammunition Plant (AAP)	MO	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Fort Bragg	NC	0	0	0	0	0	0	0	0	1	1	0	0	3.75	3	6.75
Military Ocean Terminal Sunny Point (MOTSU)	NC	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
White Sands Missile Range	NM	0	0	1	1	1	1	1	1	0	0	0	0	3.75	3	6.75
Watervliet Arsenal	NY	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
McAlester Army Ammunition Plant (AAP)	OK	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Fort Belvoir	VA	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75
Radford Army Ammunition Plant (AAP)	VA	1	1	0	0	0	0	0	0	0	0	0	0	3.75	3	6.75

\*Applies to NGIC, Current Recurrent Flooding - Although the site did not experience flooding, flooding in the local area caused temporary loss of commercial water supply to the site.

Current = Historical occurrence  
 Potential = Likely to occur within 20 years