



U.S. Department of Defense
Office of Local Defense
Community Cooperation

Maryland Defense Forum

Installation Resilience

June 6, 2023

Presented by
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Project Manger



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Mission Statement

The Office of Local Defense Community Cooperation enables states, territories and communities to plan and carry out:

- civilian responses to workforce, business, and community needs arising from Defense actions and policies;
- cooperate with their military installations and leverage public and private capabilities to deliver public infrastructure and services to enhance the military mission, achieve facility and infrastructure savings as well as reduced operating costs; and,
- increase military, civilian, and industrial readiness and resiliency, and support military families



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OLDCC Program Activities

Community Investment

- Public Schools on Military Installations (PSMI)
- Defense Community Infrastructure Pilot Program (DCIP)
- Pacific Readiness
- Growth
- Community Noise Mitigation (CNM)

Community Adjustment

- Installation Resilience (IR)
 - Compatible Use (CU)
- Diversification & Modernization
- Defense Manufacturing Support Communities (DMSCP)
- Realignment



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Resilience Authority

- 10 U.S.C. 2391(b)(5)(D): The Secretary of Defense may also make grants, conclude cooperative agreements, and supplement other Federal funds, in order to assist a State or local government in planning, enhancing infrastructure, and implementing measures and projects (to include resilience measures and projects involving the protection, restoration, and maintenance of natural features) that, as determined by the Secretary of Defense, will contribute to maintaining or improving military installation resilience or will prevent or mitigate encroachment that could affect operations of the Department of Defense.



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Installation Resilience

Resilience Risks:

- Flooding & Tidal Surge
- Wind
- Drought
- Wildfire
- Earthquake

Resilience Impacts:

- Water Availability
- Stormwater
- Wastewater
- Installation Energy
- Operational Energy (logistics infrastructure)
- Transportation (logistics)
- Installation Access
- Communications
- Income-based Housing





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Installation Resilience

Compatible Use Challenges:

- Air Space and Land Restrictions
- Airborne Noise
- Urban Growth
- Spectrum Encroachment
- Endangered Species/Critical Habitat
- Energy Compatibility
- Air Quality
- Cultural Resources
- Marine Resources
- Security





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Program of Assistance

- Initiated either through a Military Service nomination or by a community inquiry
- Installation Resilience includes Compatible Use and projects can be blended
- May be a comprehensive Installation Resilience Review or focused study for a selection of factors
- Holistic “Installation Resilience” Review
 - Develop Program Framework – Develop Work Plan, Project Team, and Steering Committee
 - Identifying and Map Resilience Risks
 - Identifying and Assess Natural and Manmade Threats
 - Understand Impacts and Consequences of Identified Vulnerabilities
 - Map Out Existing Responsibilities/Capabilities of Installation and Surrounding Communities
 - Make Recommendations for Resilience Implementation Activities
 - Tabletop Exercises



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Program of Assistance

- Not to exceed an 18-month grant period
- 10% cost share requirement from grantee
- Scope of Work may be adjusted based on installation issues
- Consider execution capacity and quality if seeking multiple grants per community/installation
- Technical and financial assistance is available for eligible implementation actions



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Installation Resilience Roles

Installation

- Partner with the community by recommending and supporting the nomination
- Represent installation interests (Installation Commander Ex-Officio member)
- Provide releasable data

Community

- Partner with the installation by sponsoring the effort
- Fund its part of the effort (10% non-Federal match)
- Administer the grant
- Implement recommendations

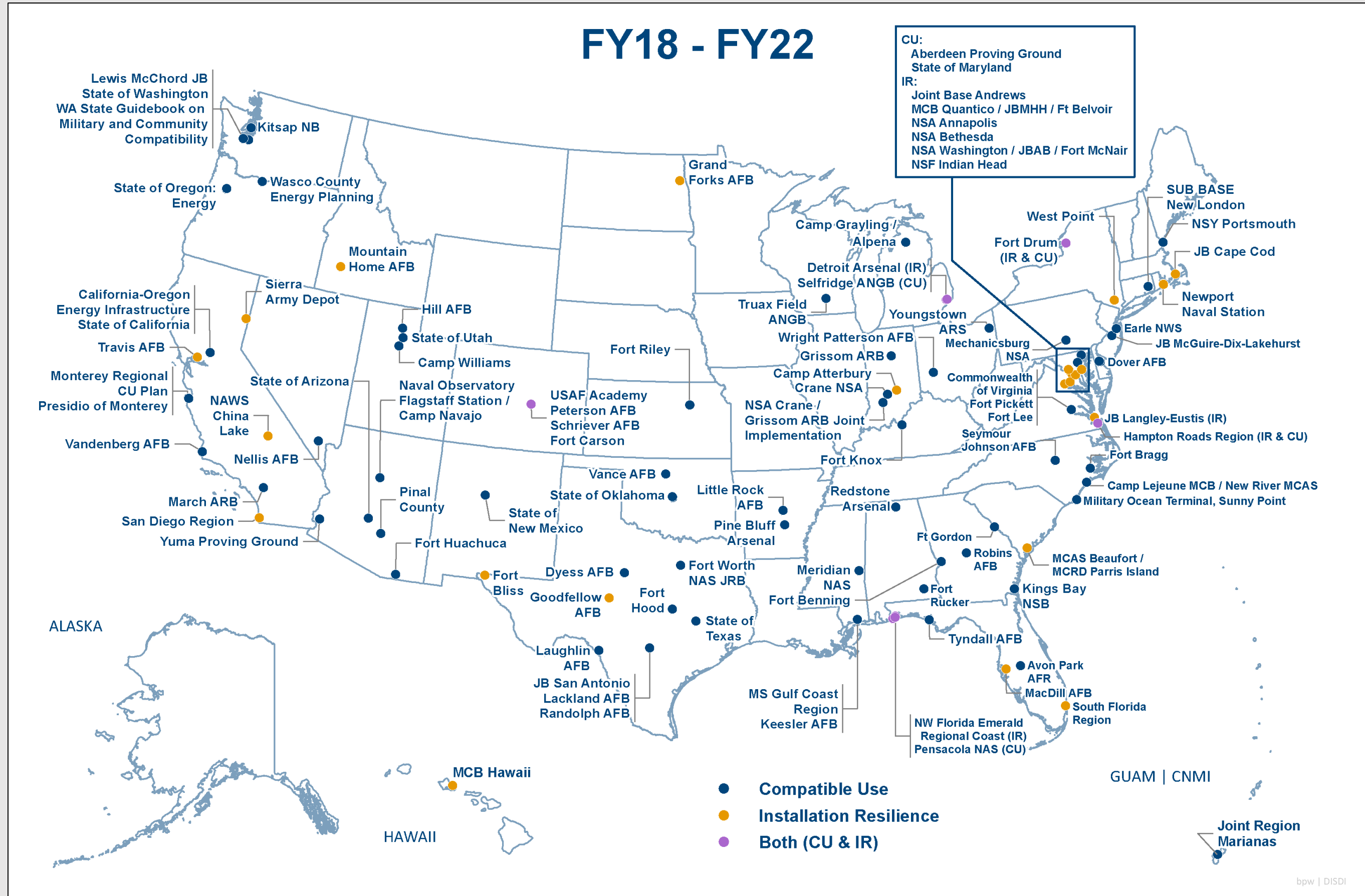
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- Enabler of the partnership
- Provide guidance to initiate, conduct and complete a community-driven effort
- Provide technical and financial assistance to the local jurisdiction and installation
- Facilitate communications between the local jurisdiction and the installation



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Grants Awarded Since FY18





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Maryland Resilience Grants

- State of Maryland
 - 2017 Statewide Joint Land Use Study
 - 2020 Implementation – planning guide, energy siting
- Aberdeen Proving Ground
 - 2014 Joint Land Use Study
 - 2016 Implementation – small area study
 - 2017 Implementation – military compatibility areas
 - 2018 Implementation – economic impact, transit oriented development, sea level rise mitigation recommendations, outreach
- JB Andrews
 - 2013 Joint Land Use Study
 - 2022 Installation Resilience Review (stormwater focused)

The screenshot shows the EPA website page for the Storm Water Management Model (SWMM). The page header includes the EPA logo, the text "United States Environmental Protection Agency", and a search bar. Below the header is a navigation menu with "Environmental Topics", "Laws & Regulations", "Report a Violation", and "About EPA". The main content area features the title "Storm Water Management Model (SWMM)" and a sub-headline "Helps predict runoff quantity and quality from drainage systems". A "Related Topics" section lists "Water Research". A "Software and Documentation" section describes SWMM as a Windows-based desktop program, open source, and free for use worldwide. It mentions that SWMM 5 was produced in a joint development effort with CDM Smith Inc. A link to "EPA's GitHub Site for SWMM 5.2 open source project" is provided. A "Software" section is partially visible at the bottom. On the right side, there is a "CONTACT US" link and an "On this Page" sidebar with links to "Software and Documentation", "Capabilities", "Applications", "Green Infrastructure/LID Controls", "Related Resources", and "Technical Support". A small image collage is also present in the sidebar.

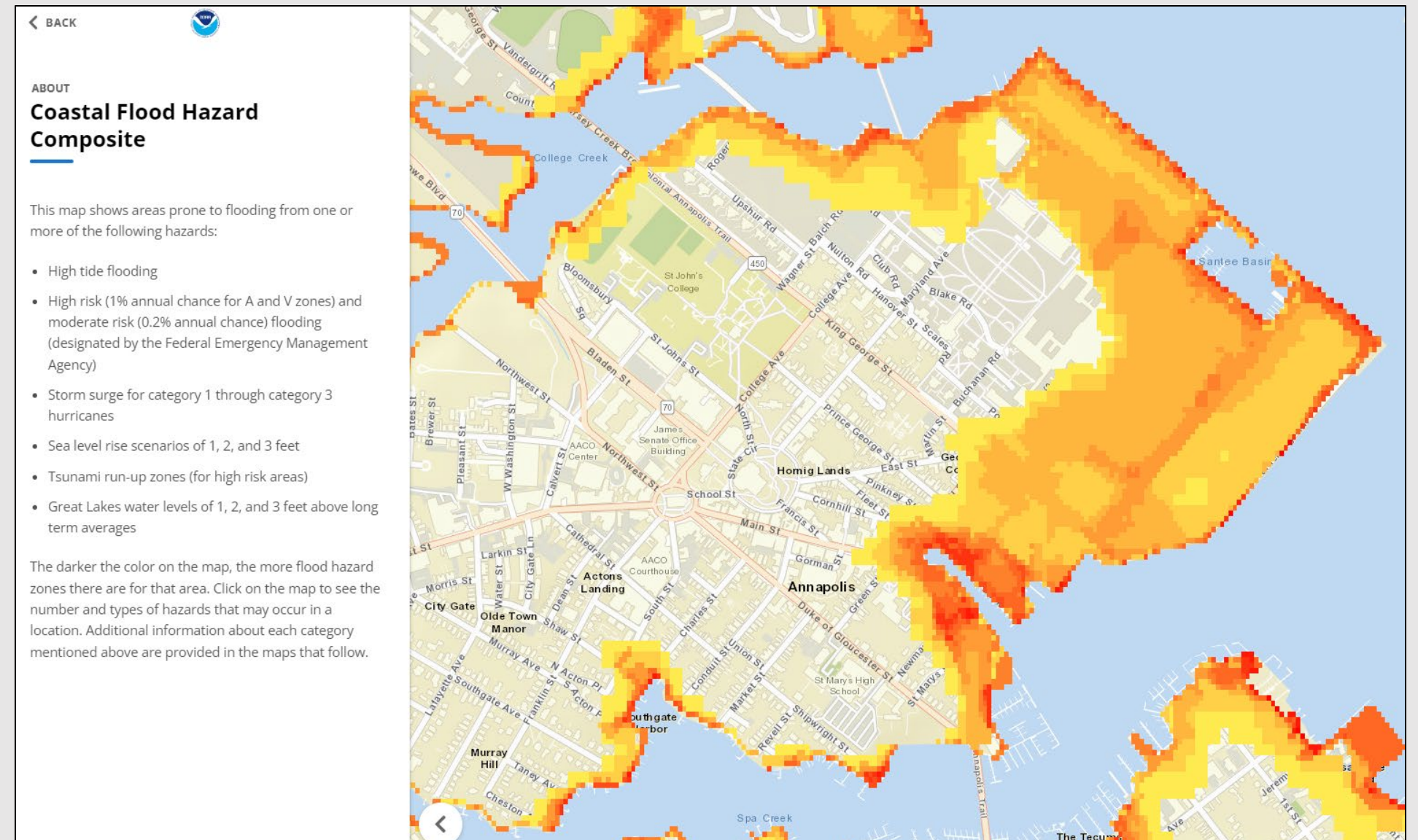




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Maryland Resilience Grants

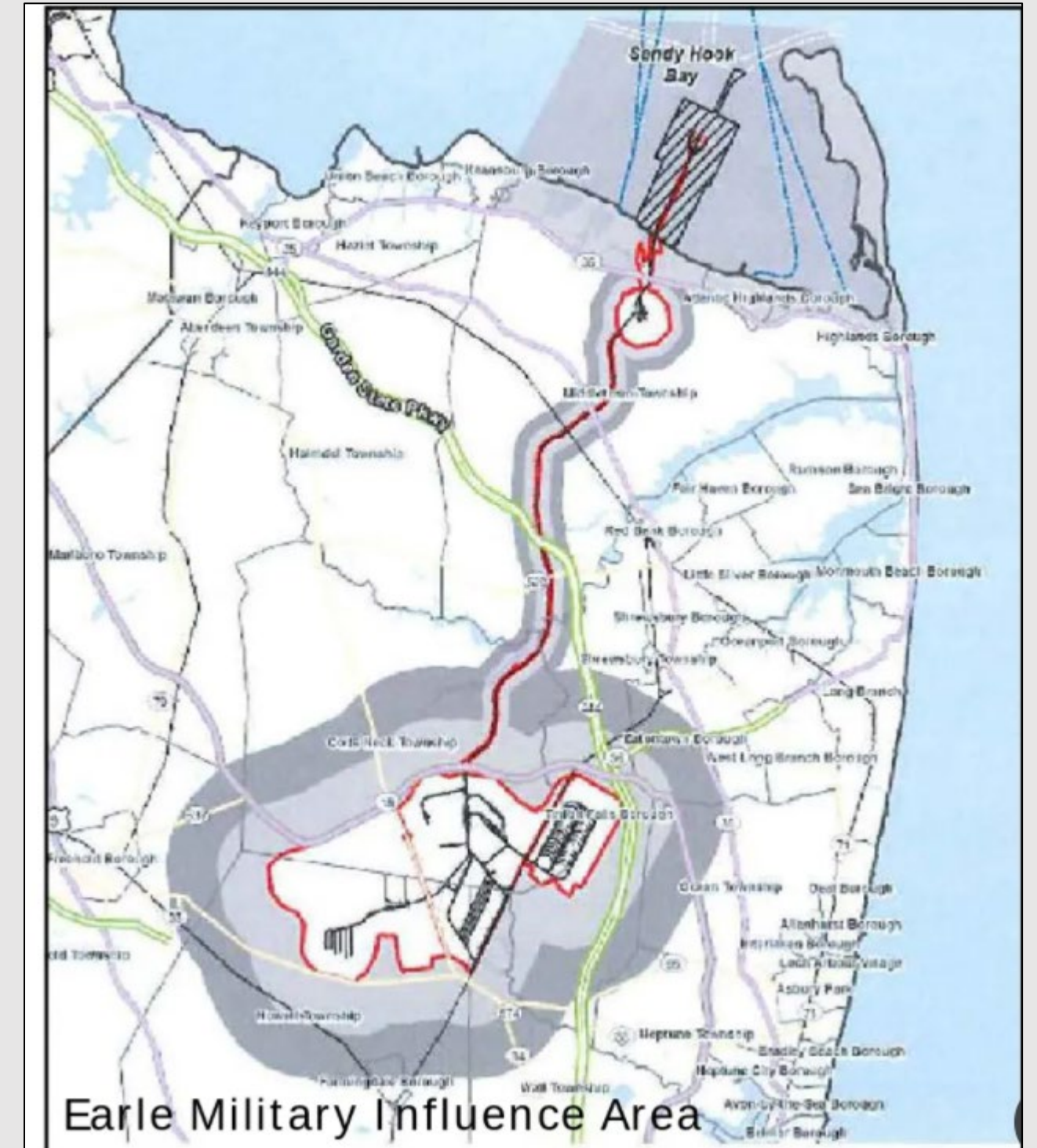
- NAS Patuxent River
 - 2015 Joint Land Use Study
 - 2023 Installation Resilience Review
- NSA Annapolis
 - 2020 Installation Resilience Review
- NSA Bethesda
 - 2020 Installation Resilience Review
- NSF Indian Head
 - 2013 Joint Land Use Study
 - 2021 Installation Resilience Review





NWS Earle

- **Issue:** Naval Weapons Station Earle waterfront pier operations vulnerable to sea level rise, recurrent flooding, and coastal storms
- **Project Study Area:** Monmouth County, NJ and other jurisdictions around southern Sandy Hook Bay
- **Action:** Installation Resilience studies with heavy focus on regional stormwater management and coastal reshoring
 - Regional watershed stakeholders discussed priorities and strengthened cross-coordination
 - Conducted site selection
 - Refined two marsh restoration designs to make public lands in the vicinity of Naval Weapons Station Earle more resilient to current and future coastal hazards

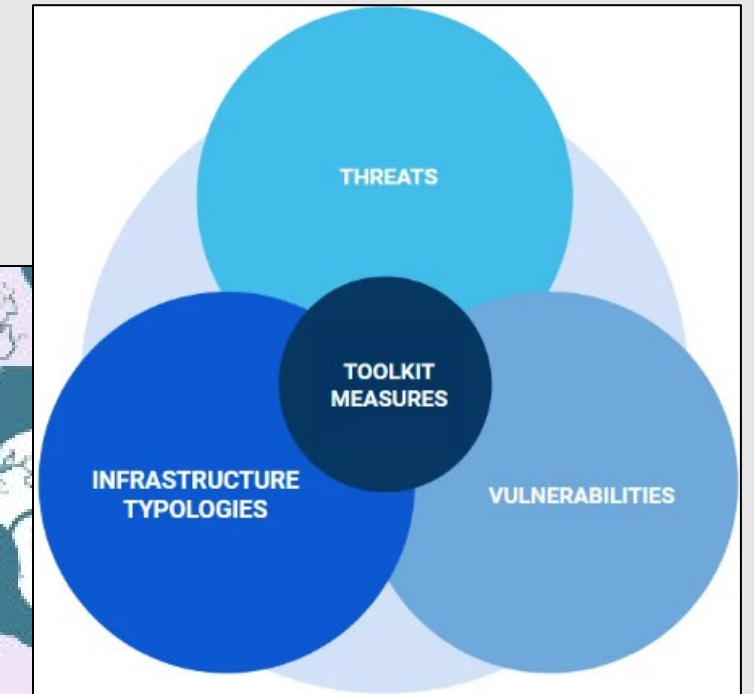
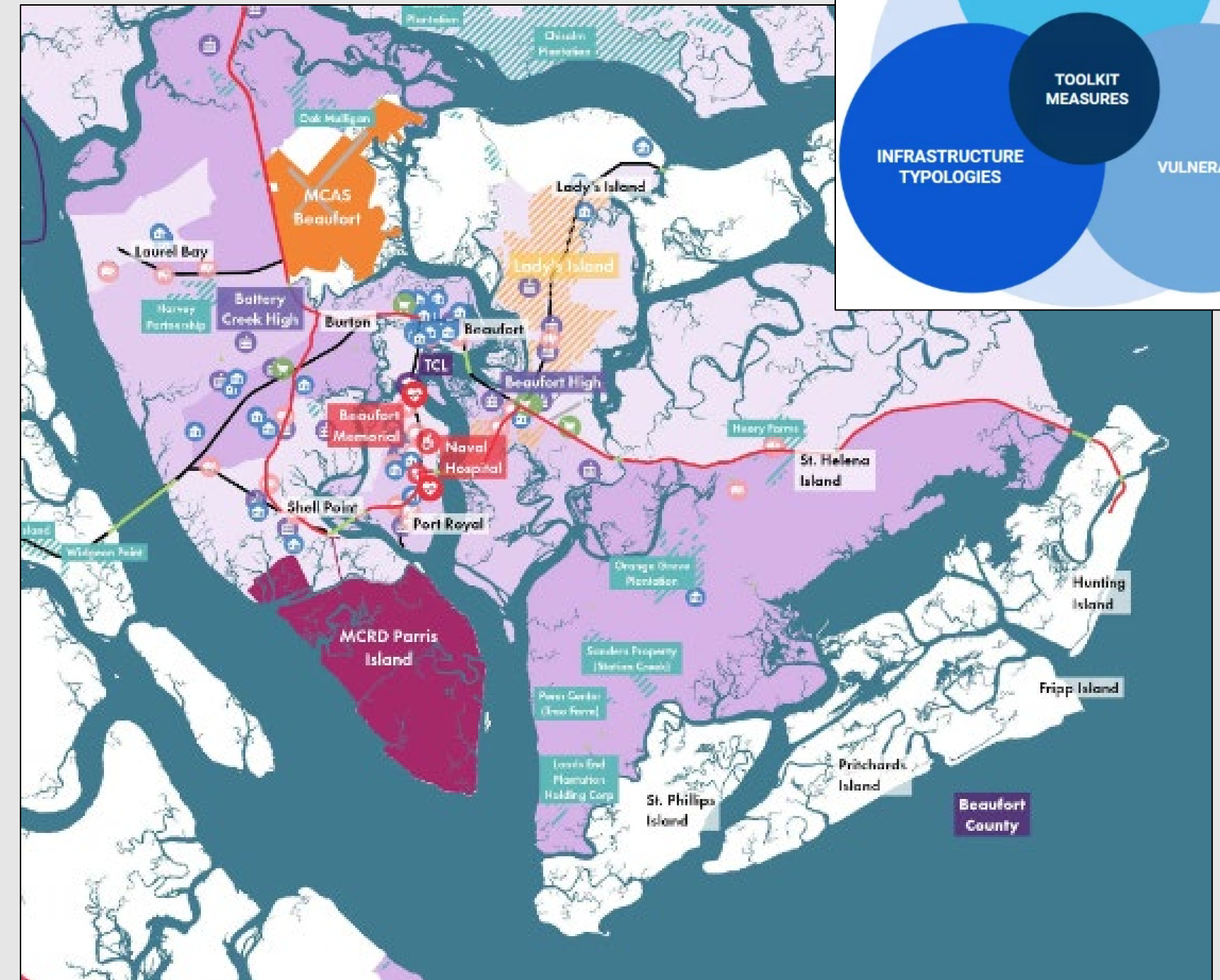




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MCAS Beaufort & MCRD Parris Island

- **Issue:** Increased tidal flooding, extreme weather events, threats to energy and water security
- **Project Study Area:** Installations and their surrounding communities
- **Action:** Comprehensive Installation Resilience study with recommendations and toolkit measures that are prioritized cross-functionally considering:
 - Threats and Vulnerabilities
 - Infrastructure Typology
 - Natural, physical, economic, social
 - Land Uses
 - Rural, suburban, urban





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NW Florida Region

- **Issue:** Increase in intensity and frequency of hurricanes and tropical storms, sea level rise, incompatible development, infrastructure overload in emergencies
- **Project study area:** Naval Air Station Whiting Field, Eglin AFB, Tyndall AFB, NAS Pensacola, Hurlburt Field and surrounding jurisdictions
- **Action:**
 - Build installation and community engagement
 - Develop Regional Hazard Assessment and Resilience Standards
 - Final Report: Feasible recommendations for structural and nonstructural mitigation measures
 - Website:
[https://www.ecrc.org/programs/military/military_installation_resilience_review_\(mirr\)](https://www.ecrc.org/programs/military/military_installation_resilience_review_(mirr))





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<https://oldcc.gov/>

<https://oldcc.gov/resource/compatible-use-and-installation-resilience-grantee-guide-508-compliant>

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Questions?