



AMERICA'S ARMY RESERVE

READY NOW! SHAPING TOMORROW...

Installations and Resiliency

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A COMMAND AND A COMPONENT



USARC:

- Man
- Equip
- Train

Deliver Forces



OCAR:

- Plans
- Policy
- Programs
- Budget
- Force Structure



LTG Jody J. Daniels
*Chief of Army Reserve and
Commanding General, USARC*



CSM Andrew Lombardo
*Command Sergeant Major,
USARC*



CW5 Patrick Nelligan
*Command Chief
Warrant Officer, USARC*



Mr. Stephen Austin – SES Tier 3
*Assistant Chief
of Army Reserve*



MG Robert Harter
*Deputy Chief
of Army Reserve*



Army Reserve Priorities



HQDA

#1 - PEOPLE



READINESS



MODERNIZATION



USFORSCOM

#1 - PEOPLE



Care for
Soldiers,
Civilians and
Families



Strengthen
Leader
Development

READINESS



Master the
Fundamentals



Deliver
Decisive Total
Army
Readiness

MODERNIZATION



Inform and
Implement the
Future Force



Execute and
Empower
Reform

ARMY RESERVE

#1 - PEOPLE



Focus on Junior
Leader Retention



Reform Processes
to Help Soldiers
Perform at their
Best



Partner with Families,
Communities, and
Employers to
Strengthen our
Formations

READINESS



Build Readiness for
Competition; Able to Surge
for Crises and Conflicts;
Postured for Change

MODERNIZATION



Develop the Army
Reserve capabilities
best suited for the
future fight

Enterprise Priority

Operational Priorities

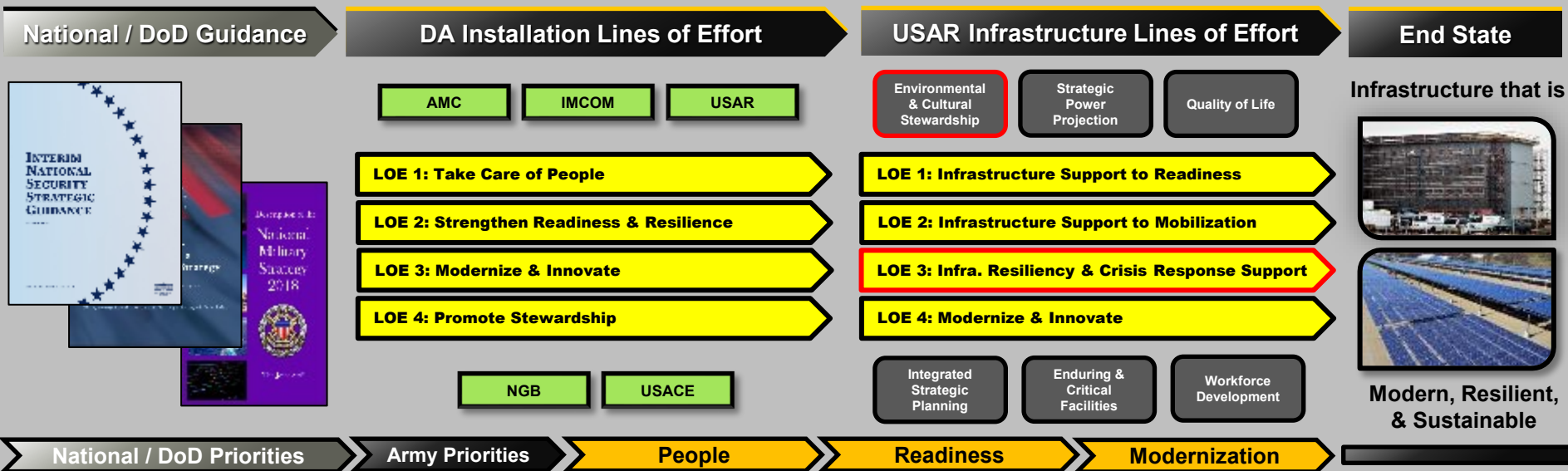
Ready Now! Shaping Tomorrow...



USAR Infrastructure Strategic Overview

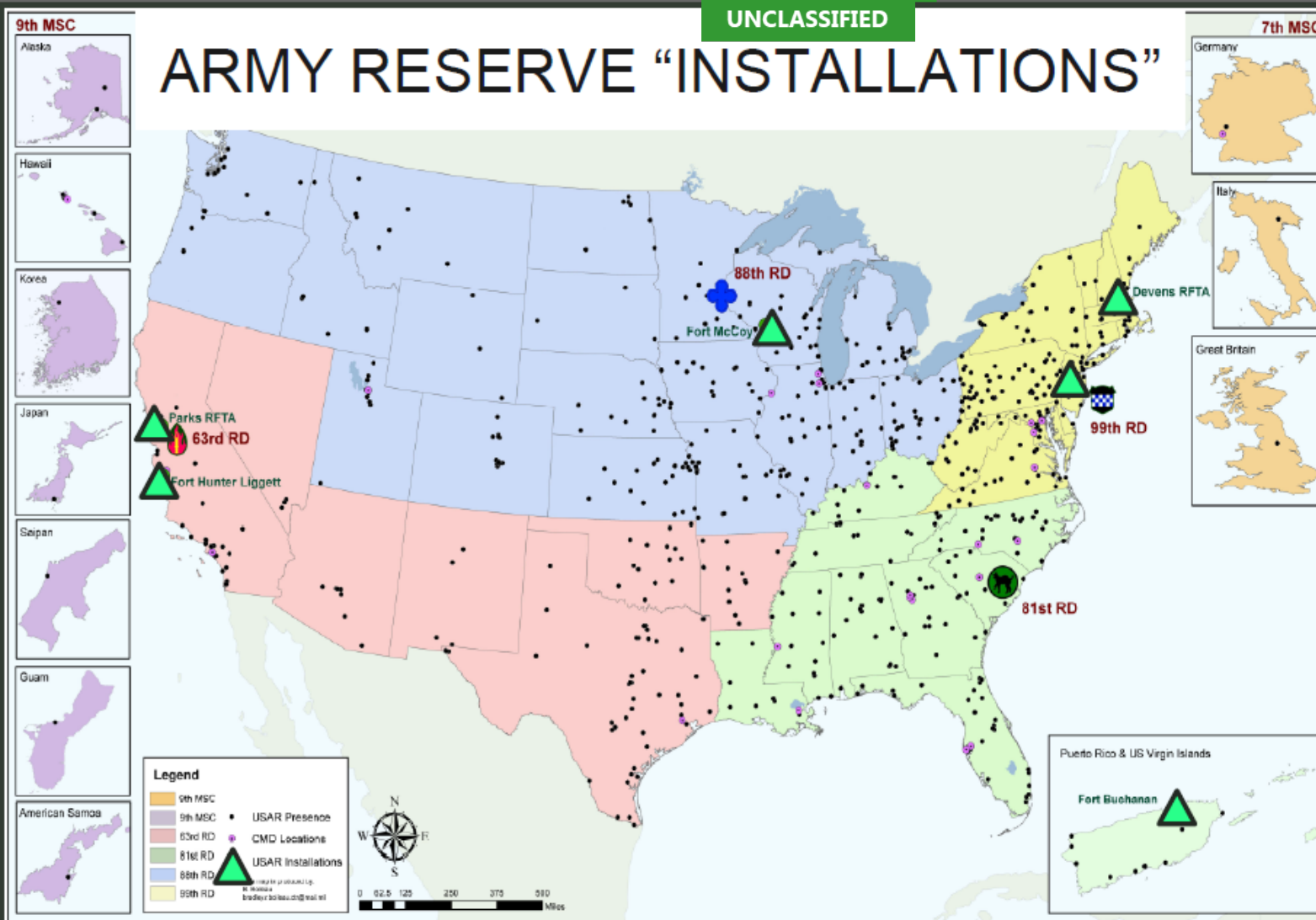


- ❑ “Pandemics and other biological risks, the **escalating climate crisis**, cyber and digital threats, international economic disruptions, protracted humanitarian crises, violent extremism and terrorism, and the proliferation of nuclear weapons and other weapons of mass destruction all pose profound and, in some cases, existential dangers.” - Interim NSS Guidance 2021



- ❑ End State: Modern, **resilient**, **sustainable**, and operationally flexible infrastructure prepared to “Generate, Support & Project” combat power in a contested MDO battlespace, while being postured to enable local, state, and federal crisis response in the event of a **natural disaster** or attack on the Homeland.

ARMY RESERVE "INSTALLATIONS"



Army Reserve Installations

- Fort McCoy, WI
- Fort Buchanan, PR
- Fort Hunter Liggett, CA

Army Reserve Forces Training Areas (RFTA)

- Camp Parks, CA
- Devens, MA

Army Support Activities

- ASA Dix (JBMDLH)

Army Reserve Readiness Divisions

- 63rd RD, CA
- 81st RD, SC
- 88th RD, MN
- 99th RD, NJ

Army Reserve Mission Support Commands

- 7th MSC, GR
- 9th MSC, HI
- 1st MSC, PR

Army Reserve Centers			Armed Forces Reserve Centers			LTAs	Family Housing Units (FA)			Organizational Maintenance Facilities	
Owned	Leased	Enclave	Owned	Leased	Enclave	27	Owned	Privately Owned	MHPI	AMSA	ECS
608	17	55	84	0	16	8,804 acres	207	0	179	144	45
# Buildings		Bldg (SF)		Land (Acres)		Avg. Bldg Age	Roads		Airfields & Helipads		
Owned	Leased	Owned	Leased	Owned	Leased		Paved	Unpaved	Fixed Wing	Rotary Wing	
3,942	245	41.0 M	1.762M	196,097	83,440	33.1	649 mi	1,423 mi	2 Paved 4 Unpaved	1 Runway Paved 22 Landing Pads	



USAR Resiliency Efforts



Installation Energy and Water Plans (IEWPs)

- Completed IEWPs at Fort McCoy, Fort Buchanan, Fort Hunter Liggett, Parks Reserve Forces Training Area (RFTA), and the 63rd, 81st, 88th and 99th Readiness Divisions.
- \$257M of resilience projects identified to ensure our ability to operate 14+ days independently off the grid.

Building Controls and Metering

- ARIMD is developing an enterprise-wide solution to provide remote access and analytic tools to building controls.
- At the end of FY21, Enterprise Building Control System (EBCS) was connected to 108 buildings and is expected to integrate ~500 buildings, or nearly 85% of the 600 buildings currently identified as strategic and/or with positive return on investment, in five years.

Award-Winning Initiatives

- Since 2014, 10 Secretary of the Army Energy/ Water Management Awards and 9 excellence recognitions by DoE's Federal Energy Management Program (FEMP).
- FY21 Secretary of the Army award presented to:
 - The 63rd RD: first virtual Installation Energy and Water Plan developed in the Army (cost avoidance > \$425K and increased renewable energy generation 1.1 MWh annually).
 - Fort Buchanan: water infrastructure improvements and rainwater harvesting implementation, resulting in annual water savings of 120 MGal and \$1.6 million (FY18-20).

Resilience showcase

- In July 2021, Fort Hunter Liggett (FHL) selected as the Department of Army Model Installation for a Sustainability Showcase for White House representatives.
- Tour highlighted sustainability practices with focus on clean/renewable energy and the value of resilience.
- FHL status as a Net Zero installation, and progress toward resilience, accomplished through leveraging multiple USAR funding streams (e.g., MDEP QUTM, ERCIP, and 3rd party financing).



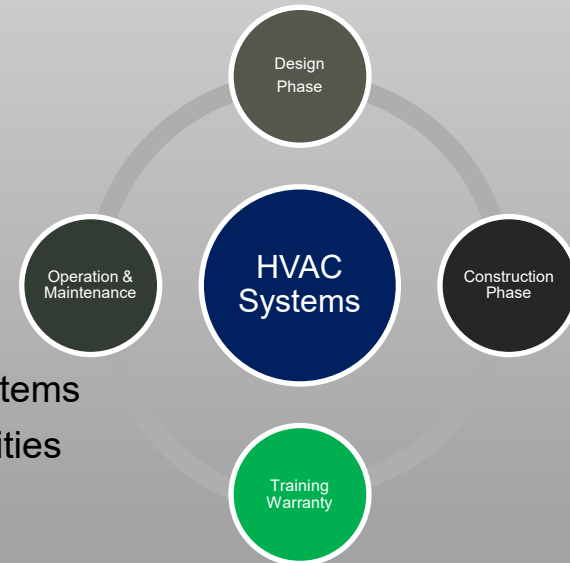
USAR HVAC Initiative

Problem: Reoccurring HVAC issues are being reported on new and existing systems.

There is a need for the Army Reserve to develop HVAC standards for new construction (MCAR), major renovations (MRAR), and life cycle replacements (S) that BALANCE required energy mandates and goals AND are more consistent, and maintainable from a costs and operations standpoint.

Process / Methodology:

- HVAC stand-down key takeaways:
 - 1) Need to balance energy mandates and maintenance/operation capabilities
 - 2) Readiness Divisions want simpler, more manageable standardization systems and controls
 - 3) Sustainers' knowledge retention is a big challenge of systems training
 - 4) USAR facilities have 6 to 8 days per month of HVAC maximum load requirements
 - 5) USAR facilities are spread out with remote sites that create servicing challenges
- Review of Design, Construction, Training, and Sustainment of HVAC systems
- Identify metering trend data of current HVAC systems within current facilities



Solutions Under Consideration:

- Nationwide/Regional HVAC Replacement Program (Lifecycle Replacement)
- Nationwide/Regional Monitoring System
- Nationwide/Regional Maintenance specifications and/or contracts
- Sole Source of Systems with approved justification for regionalized HVAC solutions
- HVAC Recalibration program



QUESTIONS