Hawaii Engineer Training Workshop

Aloha

Col Nick Desport, USAF (Ret)
SAME Deputy Executive Director
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Safety Minute

• Emergency Exits
• In Case of Illness or Accident—for assistance, locate an SAME rep or Club staff personnel
• Be safe
Main Events

• Tuesday
  – Contingency Engineering

• Wednesday
  – Installation Management

• Both Days
  – Co-located with the Joint Engineer Work Group
  – Lunches and Breaks synchronized
  – Sponsored Receptions
Conference Chairs

• Program Chair:
  – John Cawthorne, Baker International

• Contingency Engineering Track Chair:
  – Bill Haight, Louis Berger Group

• Installation Management Track Chair:
  – Eamonn Kinsella, Burns & McDonnell
Professional Development Hours

• Each Session is worth 1- 1.5 PDHs
  – Editable PDH form on SAME website
  – Link will be emailed to each participant following the workshop
  – We brought some printed copies as well
Other Logistics

• Rest Rooms
• Cell Phones
• Enjoy the Breaks, but please be timely
• Participate
• Slides will be available on www.same.org following the conference
A Special Thanks to all our Moderators and Speakers
SAME National Update

• Executive Director Transition
• Opening the Aperture past DOD
• Expanding Partnerships
• Engaging Posts More than Ever
• Relooking Major Events for Excitement and Variety
SAME National Update

National Focus

• SAME’s mission focus on *National Security* is unique among associations in our industry

• *National Security* includes anything our industry touches that can strengthen America
SAME National Update

SAME’s Value

• Serve the professional development, mentoring and business development needs of the private and public sectors of our industry to strengthen America’s readiness and resilience

• Committed to fostering interest in engineering and science related professions among our youth
SAME National Update

SAME’s Value

• Provides opportunities for professional growth through active networking, mentorship and leadership development

• Committed to America’s veterans through professional development, transition, and assistance programs
OPENING SESSION
Perspectives on Joint Engineering

Speakers:

**Army Engineer Roles:** Col. Blace Albert, P.E., USA, Commander, 130th Engineer Brigade

**Seabee Roles and Responsibilities:** Capt. Dean Tufts, P.E., CEC, USN, Commander, NAVFAC Hawaii

**Role of RED HORSE & Prime Beef Teams:** Col. Mickey Addison, USAF, Deputy Director and Command Engineer, Logistics, Installations & Mission Support, Pacific Air Forces A7
Contingency Engineering
Perspectives on Joint Engineering

ARMY

130th EN BDE…”PACOM’s Unit of Choice!”

“SAPPERS IN!”
“armed conflict is a clash of interests between or among organized groups, each attempting to impose their will on the opposition. In essence, it is fundamentally a human endeavor…”

“Operations in the land domain are most effective at achieving the human outcomes that are a prerequisite for achieving national objectives.”
“Forward deployed, actively engaged forces have proven essential to contributing to peace by reassuring our friends and deterring our enemies. Such forces provide a broad range of benefits that includes: demonstration of U.S. commitment, establishment of enduring relationships with regional military and political leaders, improved capability of hosts to handle their own internal security challenges, increased willingness of hosts to participate in friendly coalitions, ability of the U.S. to achieve a higher level of understanding than is possible just with technical means, reduced chance of experiencing strategic surprise, reduced chance that an aggressor will miscalculate U.S. resolve or capability, and increased responsiveness to crises.”
Army Support to Other Services

- Theater ballistic missile defense
- CBRNE ops
- EPW/Detainee ops
- Theater signal support
- Troop construction support to OCONUS USAF
- Joint mortuary affairs
- Conduct JRSOI
- Base operations support to SOF

Common User Logistics
U.S. ARMY LAND POWER IN THE PACIFIC

Transnational Threats
- Space and cyber vulnerabilities
- Terrorism – migrating IED TTPs/technologies
- Environmental degradation
- Resource competition
- Weapons proliferation
- Illegal narcotics, illegal immigration, human trafficking
- Piracy
- Natural disasters

AC – Active Component
ARNG – Army National Guard
CJTF – Counter-Improved Explosive Device
IED – Improvised Explosive Device
OPCON – Operational Control
TTP – Tactics, Techniques and Procedures
USAR – U.S. Army Reserve
USARPAC – U.S. Army Pacific
USPACOM – U.S. Pacific Command

SAFEGUARD U.S. Army Pacific

AS OF 12 FEB 13

 Malay to California = 9,000 miles

130th EN BDE… PACOM’s Unit of Choice!

American Samoa ≈ 400 USAR Soldiers

Guam ≈ 1,200 ARNG Soldiers ≈ 400 USAR Soldiers

Northern Mariana ≈ 100 USAR Soldiers

Philippines ≈ 300 AC Soldiers

Guam ≈ 1,200 ARNG Soldiers ≈ 400 USAR Soldiers

Hawaii U.S. Army, Pacific
≈ 22,500 AC Soldiers ≈ 3,000 ARNG Soldiers ≈ 1,300 USAR Soldiers

Joint Base Lewis-McChord
I Corps (OPCON)
≈ 31,000* AC Soldiers ≈ 6,000** ARNG Soldiers ≈ 4,000*** USAR Soldiers

South Korea 8th Army (Field)
> 19,700 AC Soldiers

Japan U.S. Army, Japan
≈ 2,500 AC Soldiers

U.S. Army, Alaska
≈ 12,500 AC Soldiers ≈ 1,900** ARNG Soldiers ≈ 400*** USAR Soldiers

Alaska

The Pacific Theater
- The World’s 3 Largest Economies
  United States, China, Japan
- The World’s 4 Most Populous Countries
  China, India, United States, Indonesia
- 6 of the World’s 10 Largest Armies
  China, India, N. Korea, United States, S. Korea, Vietnam
- 5 of the U.S. Mutual Defense Agreements
  Australia, Philippines, Thailand, Japan, S. Korea
- 21 of the 27 Defense Chiefs are Army Officers
- 24 U.S. Army Pacific

PREVENT
- Trained and Ready Forces (Korea, Alaska, Hawaii, Washington)
  — 2 Divisions
  — 2 Combat Aviation Brigades
  — 9 Brigade Combat Teams
  — 11 Multi-functional Brigades
- Mission Command Headquarters (HQ) Capacity
  — Theater Army (Alaska)
  — Corps (VAF) & 1st Division (Hawaii)
  — Field Army (Korea)
  — 2nd Force Hq (Japan, AK)
- Enduring Capability
  — Theater enabling headquarters: sustainment, air and missile defense, signals intelligence, engineer, medical and military police
  — Army Prepositioned Stocks (Japan, Korea, Diego Garcia)
  — Power projection from Washington-Hawaii-Alaska-Japan

SHAPE (ENGAGE AND PARTNER)
- Subordinate headquarters regionally aligned with partner armies
- 24 Large-scale exercises with 12 or 36 countries in the region
- Fiscal Year 2012 development of partner capacity in 21 countries
  — Subject Matter Expert Exchanges with 19 countries
  — 55 U.S. and Partner Soldier Exchange Assignments
  — 7 U.S. Soldiers attended 4 Partner Army Schools
  — 122 Asia-Pacific Soldiers attended U.S. Army Schools
  — 7,100 trained in 80 GECO Center events with 12 countries
- 10 U.S. countries partnered with the national guard
  — Mongolia > Alaska
  — Philippines > Hawaii/Guam
  — Bangladesh/Vietnam > Oregon
  — Indonesia > Hawaii
- 191 engagements with 34 countries
- 104 executive engagements with 18 countries
- Humanitarian assistance and disaster relief
  — Contingency response headquarters (Hawaii, Japan)
  — Forward stocks, engineering and civil affairs support

WIN
- Support ongoing operations to defeat al Qaeda affiliates in the Philippines and throughout South and Southeast Asia
- If prevention fails, USARPAC rapidly projects and sustains unified land force capabilities in support of USPACOM to win decisively
Contingency Engineering

CONTINGENCY: a situation requiring military operations in response to natural disasters, terrorists, subversives, or as otherwise directed by appropriate authority to protect US interests. Source: JP 5-0

- Short Duration (up to two years)
- Lower Standards of Construction
- Contested Area
- Lack of Advanced Planning
- Harsh Conditions

130th EN BDE…”PACOM’s Unit of Choice!”

“SAPPERS IN!”
Contingency Engineering

Figure 5-1. Contingency perspective of engineer requirements

130th EN BDE..."PACOM's Unit of Choice!"

"SAPPERS IN!"
# Joint Capabilities

<table>
<thead>
<tr>
<th></th>
<th>ARMY</th>
<th>NAVY</th>
<th>AIR FORCE</th>
<th>MARINES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Combat</strong></td>
<td>Yes</td>
<td>Limited</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Geospatial</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Navy:** very technical but short deployments  
**Air Force:** great on airfields but work mostly on airfields  
**Marines:** good at force protection but only support Marines

(From the ARMY-run Joint Engineer Operations Course)
Forces Operating in the Pacific

RESERVE

9th MSC
411th EN BN
- 955th EN TM (S/D) [HI]
- 871st EN CO (Vert.) [HI]
- 297th EN CO (Horiz.) [AK]
- 797th EN CO (Vert.) [GU]

The 411th EN BN HQ is assigned to the 9th Mission Support Command on Fort Shafter, HI and is comprised of Soldiers assigned to units in Hawaii, Fairbanks and Anchorage, Alaska, American Samoa, Saipan and Guam.

NATIONAL GUARD

State Partnership Program (SPP)
- 1224th EN CO (ESC) [GU]
- 230th EN CO (Vert.) [HI]
- 297th EN TM (FF) [HI]
- A/29th BSTB (Sapper) [HI]
- 207 CMT [AK]
- 176 EN CO (Vert.) [WA]
- 204 MAC [WA]
- 286 EN CO (Horiz.) [WA]
- 234 EN CO (Vert.) [OR]
- 162 MAC [OR]
- 224 EN CO (ESC) [OR]
- 126 EN CO (ESC) [ID]

There are 12 National Guard Engineer Units that support missions in the Pacific through the State Partnership Program (10x Companies, 2x Detachments). Seven (7) of these units are located in CONUS. Five (5) are located in the Pacific.

Regionally Aligned Forces

412th TEC

412th TEC HQ [MS]
- 368th FST-M [GA]
- 314th PAOC [AL]

302nd MEB [MA]
- 368th EN BN [NH]
- 533rd SPT BN [NY]

411th Engineer Brigade [NY]
- 479th EN BN [NY]
- 854th EN BN [NY]
- 365th EN BN [PA]
- 458th EN BN [PA]
- 463rd EN BN [WV]

926th Engineer Brigade [AL]
- 478th EN BN [KY]
- 844th EN BN [TN]
- 467th EN BN [TN]
- 391st EN BN [SC]
- 926th EN BN [AL]
- 841st EN BN [FL]

The 412th TEC is regionally aligned to provide the primary Theater Engineer Mission Command to USARAF, USAREUR, USARPAC, and 8th ARMY.

130th EN BDE..."PACOM's Unit of Choice!"

“SAPPERS IN!”
Engineer Engagements in the Pacific
(Slide provided by USARPAC ACSENG)

AS OF 22 Sept 2014

Cobra Gold 15 (Thailand)
- 1x ENCAP by 176 EN CO (WA ARNG)
- 1x ENCAP by 411 EN BN (9 MSC)
- JCMOTF by 303 MEB (9 MSC)
- **Scope:** Three Room Classroom

Hanuman Guardian 14 (Thailand)
- 1x ENCAP by 797 EN CO (411 EN BN/9 MSC)
- **Scope:** Three Room Classroom

Angkor Sentinel 15 (Cambodia)
- 1x ENCAP
- **Scope:** Classroom and School Development

Khaan Quest 14 (Mongolia)
- 1x ENCAP by 465 EN CO (926 EN BDE/412 TEC) supported by III MEF Engineers
- **Scope:** 2x School renovation and water distribution plant renovation

CARAT 14 (Philippines)
- 1x ENCAP by 1224 EN CO (GU ARNG) and 230 EN CO (HI ARNG)
- **Scope:** School Refurbishment

JPAC Support (Papa New Guinea)
- 1x Project, 561 EN CO, 84 EN BN
- **Scope:** Road Improvement to assist in recovery of American Military Remains

Keris Strike 14 (Malaysia)
- 2x Sapper Squads from 81 HBCT (WA ARNG) support mounted C-IED STX
- 1x Vertical Engineer STX and
- 1x ENCAP by 585 EN CO (864 EN BN/555 EN BDE)
- **Scope:** Expeditionary construction and school roof replacement

Lu Wei (Taiwan)
- 1x MILCON project management and HA/DR SMEE by USACE, USARPAC, and HI ARNG personnel (May 2014)
- 1x Combat Engineer SMEE (May 2015)
- 1x HA/DR SMEE (July 2015)

Alam Halfa 14 (New Zealand)
- 1x Sapper Squad from 3/25 BCT support CALFEX with NZ 2nd Regiment

Mission Complete

Developing

Mission Complete

Cancelled

Mission Complete

Developing

Mission Complete

Legend
- ENCAP – Engineer Civic Action Project
- EAE – Expert Academic Engagement
- SMEE – Subject Matter Expert Exchange
- CAT – Civic Action Team

Other FY14 Engineer Engagements
- Thailand ESG (July 2014)
- Lu Wei (Taiwan) MPC (June 2014)
- Lu Wei (Taiwan) ESG (October 2014)
- Thailand AIN C-IED facility design EAE supported by 1x 12H30 from 84 EN BN (May 2014)
Examples

Before: Existing articulated concrete matting (ACM) erodes away due to the intense runoff through the low-water crossing

After: Reinforced concrete slab low-water crossing with inlet and outlet erosion control measures

Typical Improved Section of Road

After: (Inlet) Concrete headwall and wingwall w/ inlet compaction
Examples

Before: Inlet view of sand bag single culvert

After: Inlet view of double culvert concrete headwall and wingwall

Before: (Inlet) 24” culvert obstructed by vegetation and debris

After: (Inlet) Two 36” culverts with concrete headwall & wingwall
Examples

Before Product (Site #1)

Finished Product (Site #1)

Finished Product

Finished Product
Examples

130th EN BDE...”PACOM’s Unit of Choice!”

“SAPPERS IN!”
Examples

130th EN BDE..."PACOM's Unit of Choice!"

SPC Procaccio cuts a class IV tree

SPC Saunders skids a cut tree to the bucking site

PFC Whitebread bucks a fallen tree to be moved to the bucking site

PV2 Cerda attaches a tree to the BHL to skid to the bucking site

1st PLT 523rd EN CO “Outlaws” with the crew from the Wildland Fire Department

“SAPPERS IN!”
Examples

BEFORE VIEW OF FIRE BREAK FROM TOP OF THE HILL

AFTER VIEW OF FIRE BREAK FROM TOP OF THE HILL

“SAPPERS IN!”
130th EN BDE…”PACOM’s Unit of Choice!”

“SAPPERS IN!”

SAPPERS IN!

130th EN BDE…"PACOM's Unit of Choice!"
JTF Sapper Lines of Effort

LOE #1: MOBILITY
- Train, certify, and advise
  - National Engineer Brigade (NEB)
    - 1 x SEK, 1 x CEK
    - 6 x Corps Engineer Kandaks (CEK)
  - Construction (V & H)
  - Facility Management
  - Assured Mobility

Route Clearance
- Bridge Inspection/Maintenance
  - Main Supply Routes
  - Theater Controlled Routes
  - ANA Partnered Missions

LOE #2: ANA DEVELOPMENT
- Construction/Deconstruction in Support of Retrograde Operations
- Base Closure Master Planning
- BAF Master Planning
- Well Drilling Operations
- C-SMART

LOE #3: GENERAL ENGINEERING
- Bridge Inspection/Maintenance
  - Main Supply Routes
  - Theater Controlled Routes
  - ANA Partnered Missions
Role of the PACOM TEB (Post 2014)

130th Engineer Brigade (PACOM TEB)

Standing/Organic Task Organization

Brigade HQ – Plan, Integrate & Direct EN Missions
Tech HQ Section (THS) – Provide theater technical expertise for survey and design
Brigade HQ CO – MC and unit admin and log support for HQ and assigned/attached elements
EN BN (Const. Effects) – Concrete Det, Survey & Design Det, Horizontal CO (x2), Vertical CO
Geospatial Planning Cell - Geospatial operational planning for ASCC HQ; PACOM exec agent for Theater Geospatial Database (TGD); Coord w/ NGA, host/allied nation geo support activities
Const. Mngt. Tm (CMT) – Provide const. mngt. for theater troop/activity & facilities within the JOA
DiveTm – Theater scuba and dive construction ISO port facilities, piers, docks, wharves, seawalls, & breakwater; underwater demolition, recovery & maintenance

Contingency/Transient Task Organization

Brigade HQ – Plan, Integrate & Direct EN Missions; MC transient EN units in theater; synch tactical EN effort in theater; Manage theater EN COP (Unity of EN Effort).
TSCP & Partnership Units – Active, Guard or Res units deployed ISO TSCP or partnered training & ops. (Ex. Pacific Pathways). Synched & Executed by TEB.
HADR Units – Active, Guard or Res units deployed ISO HADR Contingencies. EN response coordinated, resourced through, & executed by TEB.
USACE Prime Power – Commercial level power support (generation & transmission).
Bridging – Gap crossing & assured mobility
Other Contingency Units – Sister Service EN cont. support to PACOM. EN response coordinated, resourced through, & executed by TEB.
OPLAN & Early Entry Cmd Post – Forward deployed EN support to Contingency Ops.

Capabilities

Represents varied possible relationships: OPCON, TACON, DS, ADCON, or Coordination (All ISO Theater EN COP)
Questions?
U.S. Navy Seabees

“With compassion for others, we build, we fight, for peace with freedom.”

CAPT Dean Tufts
Commanding Officer, NAVFAC Hawaii
Regional Engineer (N4), Navy Region Hawaii
The Duke Made Us Famous, But We Gave Him Something To Work With…

Construction Battalions (CBs - Seabees)

Establishment:

1940: Navy began constructing forward operating bases (FOBs) in the Pacific

7 Dec 41: Pearl Harbor Attack

5 Jan 42: RADM Ben Moreell (CEC Officer) given authority to establish the Seabees

5 March 42: Construction Battalion (CB) personnel officially named Seabees

WWII:
325,000 Seabees served at 400 different locations
Cyclic Change in Force Structure

**SEABEE END STRENGTH**

1942
World War II: 325,000 → 5,000 (98% reduction)

1950
Korean War: 14,000 → 9,400 by 1965

1969
Vietnam War: 26,000 → 12,000

2004
OIF/OEF: 17,000 → 10,000 by 2016

9 AC NMCBs / 12 RC NMCBs → 6 AC NMCBs / 5 RC NMCBs

~1300 Civil Engineer Corps officers currently worldwide
Naval Construction Groups (NCGs)

NCG 1 total number of personnel:
Feb 13: 2400 AC / 4000 RC
Mar 13: 2500 AC / 4000 RC
Apr 13: 2600 AC / 4200 RC
Oct 13: 2600 AC / 3600 RC
Oct 14: 2600 AC / 3000 RC
What Seabees Do…

• Expeditionary construction and engineering (combat service support) for Navy and Marine Corps forces, as well as for Joint and Combined operational forces
  – Engineer Recon
  – Horizontal & Vertical Construction (incl finish work)
  – Utility & Specialty Construction / Water Wells
  – Tactical & Sustainment Bridging
  – Construction & Operation of Expeditionary Bases and Facilities
    • Airfields / Taxiways
    • Structures (Barracks, Ops Centers, Galleys, FOBs, COPs, etc.)
  – Amphibious & Underwater Construction
    • Piers / Docks / Moorings
    • Near Shore Hydrographic Surveys

• Defensive Combat Capability
  – Convoy Security Elements
  – Base Defensive Perimeter
  – Battle Damage Repair

• Foreign Military/Host Nation Capacity Building
  – Partnerships (Trust & Cooperation) & Training
  – COMRELs
  – Engineer “targeting” of projects
  – U.S. Ambassadors

• Humanitarian Assistance/Disaster Relief
  – Rapid deployers (ready in 48-hours)
  – Cooperative Health Engagements (Pacific Partnership)
What Seabees Really Do…

**GAIN**

**ACCESS, ENTRY, PRESENCE**

for Combatant Commanders and Fleets

---

**Seabees**

**We build – We fight**

---

**Global Fleet Station**

**Theater Security Cooperation**

**Humanitarian Assistance Disaster Relief**

**Homeland Defense**

**OPLAN Support**

**OCO**
UNCLASSIFIED

Where are we?
(Navy Times)

THE NAVY AS OF SEPT. 12

Seabees
We build – We fight
Sihanouk, Cambodia - Seabees from Naval Mobile Construction Battalion FOUR examine blueprints for the Samdech Che Sim Primary School Head Facility. Seabees broke ground on the facility to support U.S. Embassy and Ministry of Education initiatives to improve sanitation conditions for students.

Sihanouk, Cambodia- Construction Electrician 2nd Class Daniel Neal, assigned to Naval Mobile Construction Battalion FOUR, plays soccer with local students at the Samdech Chea Sim Primary School project site.
Kauai, Hawaii - Senior Chief Equipment Operator Emory Cole, assigned to Underwater Construction Team TWO (UCT 2), tracks a damaged cable at the Pacific Missile Range Facility.

Kauai, Hawaii - Steelworker 2nd Class Calvin Huckabee, assigned to Underwater Construction Team TWO (UCT 2), works topside to splice a damaged range cable in order to test signal continuity at the Pacific Missile Range Facility.
Leyte, Philippines – LCDR Mike Guzzi, current operations officer for 30th NCR, members of the Armed Forces of the Philippines and local public officials from the Province of Leyte, participated in a ribbon cutting ceremony to commemorate the completion of a two-room classroom at Castilla Elementary School. The school, built by the Seabees of Naval Mobile Construction Battalion (NMCB) ONE, was severely damaged by Typhoon Haiyan. This project was one of several Humanitarian Civic Assistance engineering projects completed during the U.S. Navy-led Pacific Partnership mission.

Leyte, Philippines - Seabees watch students of Castilla Elementary School perform a traditional dance during a ribbon cutting ceremony which celebrated the completion of the newly constructed building.
Seabees

We build – We fight
Air Force Perspective on Joint Engineering

Colonel Mickey Addison
PACAF A4/7D

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This Brief is Classified: UNCLASSIFIED
(U) Introduction

- (U) Civil Engineer Capabilities/Organization
- (U) Pacific Unity
- (U) Civic Action Team - Palau
- (U) Pacific Regional Training Center
- (U) Air Force Installation and Mission Support Center
- (U) Conclusion
(U) Civil Engineer Capabilities

(U) Prime BEEF
- Airbase site surveys
- Bare base camp operations
- Expedient construction
- Utility system install
- Airfield operations and maintenance
- Fire and emergency services
- Explosive Ordnance Disposal
- Explosive incident response
- HAZMAT Response
- Revetment Erection
- Water Purification
- Airfield Lighting
- Barrier Installation

(U) RED HORSE
- Cradle-to-Grave Engineering
- Heavy Equipment
- K-Span Construction
- Water Well Drilling
- Concrete / Asphalt Batch Plant
- Concrete Mobile
- Soils / Material Testing
- Quarry Operations
- Explosive Demolition
- Mobile Aircraft Arresting System
- Airfield Lighting
- Water Purification
- Concrete / Asphalt Milling

Wing Organization

- Wing Commander
- Contingency Response Group
- Maintenance Group
- Mission Spt Group
- Operations Group
- RED HORSE Squadron
- Civil Engineer Squadron
- Training
- Operations
- Operations Flight
- EOD Flight
- Engineering Flight
- Fire Emer Svs Flight
- Logistics
- Engineering Management Flight
- Readiness and Emer Management
- UNCLASSIFIED
(U) Pacific Unity

(U) Objectives

- Build partner capacity & providing venue for annual bilateral/multi-lateral engagements
- Continue to mature US-Pacific Host Nation civil military interoperability
  - Focus on Humanitarian Assistance (HA), Disaster Relief (DR), and Civil Military Operations (CMO) construction/renovation requirements

(U) ENCAP Scope

- Construction of single facility in Pacific Host Nation
- Focus on single location/large project or multiple locations/small projects (schools, clinics, or other Host Nation HA/DR/CMO requirements)

(U) Subject Matter Expert Exchanges (SMEE) Scope

- Conduct Joint and Combined Engineering SMEE engagements
- Build partnerships through an equitable exchange of engineering related tactics, techniques and procedures
(U) Pacific Unity
13-7 Philippines ENCAP

- (U) Build Classrooms and upgrade utilities for Virgil R. Magbanua Elementary School
- (U) Participants include 30 US Air Force, 10 US Navy and 8 Philippine AF Engineers
- (U) Execution: 24 Aug 13 – 25 Sep 13
- (U) Primary objective to build maintain US-Philippine relations
(U) Civic Action Team - Palau

- **(U) Scope**
  - Rebuilt the WWII Memorial Deck to honor fallen soldiers and marines
  - Improved road travel for local population and reopened roads for bus tours
  - Increased water storage capacity by 13.5K gallons – 60% increase in community storage capability

- **(U) Participants** include 13 US Air Force engineers and 12 Palauan apprentices

- **(U) Primary objective** to provide a continuous favorable U.S. presence and transfer skills to local residents
(U) Readiness/Preparedness

Pacific Regional Training Center

(U) Andersen AB, Guam
- Producing Combat Ready Airmen
- Civil Engineer, Security Forces, Personnel, Services
- Joint and Allied / Partner Training
- Deployment Preparation
(U) CSAF directed stand-up of AF Installation & Msn Spt Center to address 3,400 Headquarters position reduction

(U) Single intermediate-level HQ providing installation & msn spt
- Functions in AFMISC: A1, A/4/7, A6, FM, PA
- Six FOAs transfer to include: AFCEC, AFSFC, AFICA

(U) AFIMSC to perform AFFOR roles on behalf of CCDR & COMPACAF
- AFIMSC will effectively have directive authority over the movement of PACAF Airmen
- AFMISC (P) activated 8 Aug; JB Andrews
  - IOC: 1 Jan 15
  - FOC: 1 Oct 15
(U) Conclusion

- (U) Civil Engineer Capabilities/Organization
- (U) Pacific Unity
- (U) Civic Action Team - Palau
- (U) Pacific Regional Training Center
- (U) Air Force Installation and Mission Support Center
- (U) Conclusion
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