



**U.S. ARMY, PACIFIC**  
**Deputy Chief of Staff, G-4**

**PACIFIC COMMAND**

**JOINT SERVICE MUNITIONS RESOURCE  
RECOVERY PROGRAM**



**BRIEFER: My Name is Jim Hale and I am a Soldier**



# U.S. ARMY, PACIFIC

## Deputy Chief of Staff, G-4

OPEN DETONATION (OD)

OPEN BURNING (OB)

Resource, Recovery, Recycle (R3)

ENVIRONMENTAL  
CONCERNS

EXECUTIVE AGENT



# PACOM JOINT MUNITIONS DEMILITARIZATION WORK GROUP

## USPACOM

\* CDR DANIEL M. DONOVAN

## DRMS/DRMO/DLA

\* MR. EDWIN DOMDOMA (DRMS-PACIFIC)

MR. JON MITSUYASU (DRMS-JAPAN)

MR. DENNIS BAXTER (DRMO-HAWAII)

## PACFLT

\* MR. PETER BUTLER

MR. MARK MENTIKOV (SEAL BEACH)

MR. DONALD GRATZER (CRANE, IN)

MR. JAMES COSPER (COMPACFLT)N4

\* PRIME POC

\*\* CHAIRMAN

## USARPAC

\*\* MR. JIM HALE

\* MR. MICHAEL WEINBERG

## PACAF

MR. GREG OSBUN

\* MSGT MICHAEL FOLTERMANN

MR. JAMES BRACEY (HILL AFB)

## MARFORPAC

\*MGYSGT SHIFFLET



# CUSTOMERS/PARTICIPANTS

	ALASKA	HAWAII	GUAM	KOREA	JAPAN	THAILAND
<u>AIR FORCE</u> PACAF MRRO (HILL)	X	X	X	X	X	X
<u>NAVY/MARINES</u> PACFLT MARFORPAC NSWC		X	X	X	X	X
<u>ARMY</u> USARPAC JMC	X	X		X	X	X
<u>USPACOM</u> USPACOM J423 USFJ USFK		X		X	X	



# PURPOSE

- **LOCATE, IDENTIFY, PROGRAM, AND DEMILITARIZE MUNITIONS CANDIDATES THROUGH RESOURCE RECOVERY PROCESSES.**
- **ACCOMPLISH MUNITIONS RESOURCE RECOVERY IN A MANNER THAT SATISFIES EXPLOSIVES SAFETY AND ENVIRONMENT REQUIREMENTS.**
- **MAXIMUM JOINT PARTICIPATION BY SISTER SERVICES.**



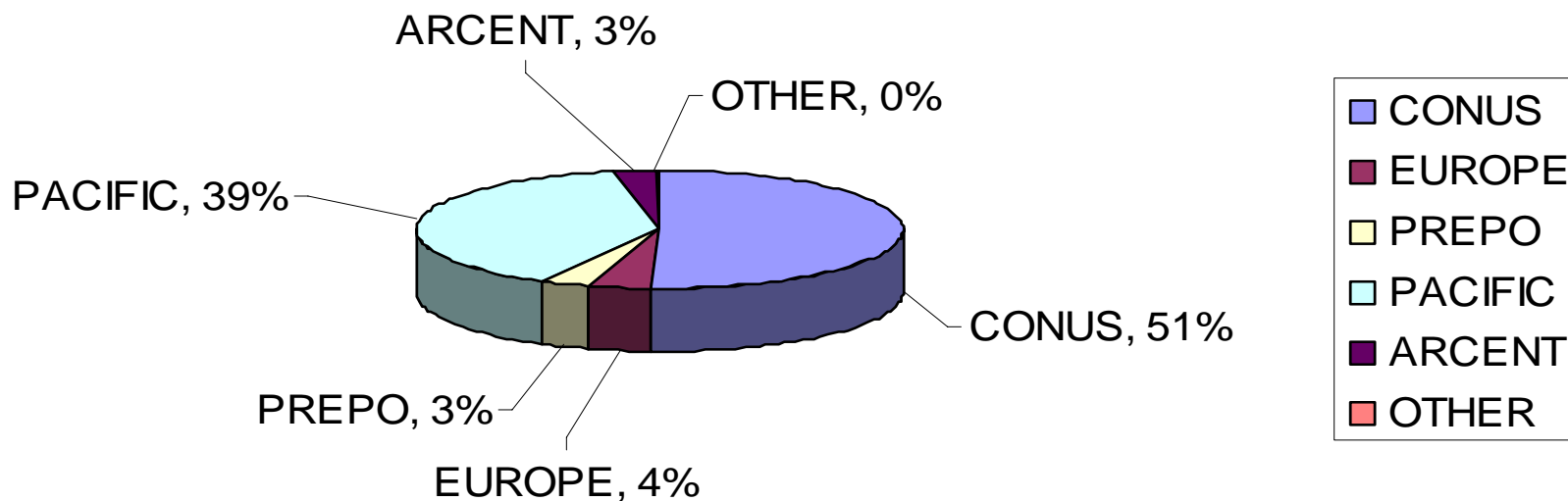
# TASKS

- **ESTABLISH AND IDENTIFY POC FROM EACH PACOM COMPONENT (USARPAC LEADS) -- COMPLETED.**
- **IDENTIFY BY SERVICE, LOCATION, DODIC, CONDITION CODE, AND TONNAGE, MUNITIONS ASSETS IN PACOM REQUIRING DEMILITARIZATION/RESOURCE RECOVERY -- CONTINUOUS.**
- **IDENTIFY ORGANIC DEMIL CAPABILITIES WITHIN PACOM -- COMPLETED.**
- **IDENTIFY PROSPECTIVE CONTRACTORS WITH MUNITIONS RESOURCE RECOVERY CAPABILITIES WITHIN PACOM -- LIMITED SUCCESS.**
- **LOOK AT FEASIBILITY OF ESTABLISHING A JOINT MUNITIONS RESOURCE RECOVERY FACILITY WITHIN PACOM --IN PROGRESS-- KOREA**
- **DETERMINE EQUIPMENT REQUIREMENT FOR A MODERN FACILITY FOR MUNITIONS RESOURCE RECOVERY VS OB/OD --COMPLETED.**



# DISTRIBUTION OF ARMY STOCKPILE PERCENTAGE BY GEOGRAPHIC AREA

ARMY CLASS V DISTRIBUTION (WARS JUNE 2006)





# Demilitarization Candidates

**(Short Tons)**

	<u>ARMY</u>	<u>NAVY</u>	<u>USMC</u>	<u>AIR FORCE</u>	<u>TOTAL</u>
ALASKA	14	0	0	0	14
HAWAII	2	0	0	0	2
GUAM	0	0	0	0	0
JAPAN	508	14	0	60	582
KOREA	224736	0	0	0	224736
TOTAL	225260	14	0	40	225334





# Technologies

## Technologies Planned for Pacific Theater

- **Melt out**
- **Incineration**
- **Boom Box (When Technology is Certified)**
- **Flashing Furnace**
- **Pink Water Treatment**
- **Super Critical Water Oxidation**
- **Molten Salt Process**
- **Propellant Conversion System**
- **Safety Certification Unit for Fired Brass**



# PACOM DEACTIVATION FURNACES

**GOAL: ESTABLISH TWO OPERATING JOINT USAGE FURNACES IN THEATER WITH CAPABILITY TO DISPOSE OF 1K STON OF SMALL ITEM MUNITIONS PER YEAR.**

<b>KOREA</b>	<b>1</b>	<b>KOREA (KOREA OWNED FURNACE)</b>
<b>JAPAN</b>	<b>1</b>	<b>83D ORD BN AREA (HONSHU)</b>



**PACOM  
SAFETY CERTIFICATION UNITS FOR SMALL  
ARMS BRASS  
(APE 1408)**

**GOAL: FOUR (4) UNITS IN THE PACIFIC THEATER-  
FIELDING DATE MAY 2003**

	<u>DISTRIBUTION</u>	<u>OPERATOR TRAINING</u>
<b>ALASKA</b>	<b>DECLINED</b>	
<b>HAWAII</b>	<b>0</b>	
<b>JAPAN (OKINAWA)</b>	<b>1</b>	<b>OCT 03</b>
<b>KOREA</b>	<b>2</b>	<b>1-EA APR 06/1-EA APR 07</b>
<b>TOTAL</b>	<b>3 UNITS</b>	

**APE 1408 DESIGNED TO THERMALLY CERTIFY PRE-INSPECTED 5.56MM THROUGH .50 CALIBER RANGE RESIDUE BRASS. BRASS IS INERT AND/OR FREE OF ENERGETICS AND CERTIFIABLE FOR RECYCLE.**

**• DRMS HAS A NEW REQUIREMENT FOR BRASS TO BE DEFORMED. DRMS IN PACOM HAS AGREED TO DELAY IMPLIMENTATION AT DRMO's UNTIL THE APE 1408 CAN BE MODIFIED TO ALSO DEFORM THE BRASS. TEAD IS CURRENTLY DEVELOPING THE REQUIRED MODIFICATION.**

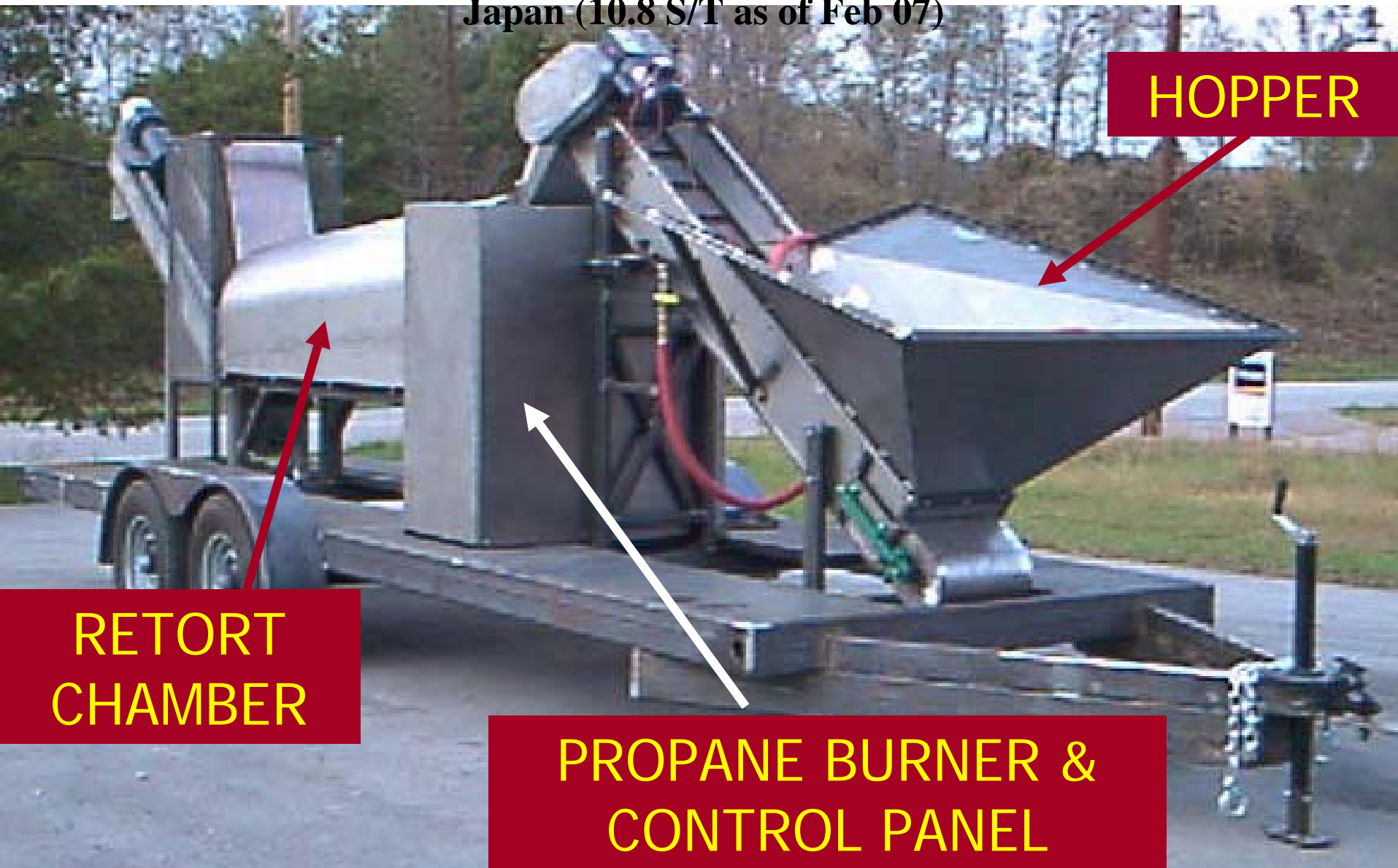


United States Army, Pacific

# SAFETY CERTIFICATION UNIT

Hawaii(2,829 S/T as of Feb 07) Korea (104.88 S/T as of Feb 07)

Japan (10.8 S/T as of Feb 07)



HOPPER

RETORT  
CHAMBER

PROPANE BURNER &  
CONTROL PANEL



# INITIATIVES

**OPEN BURNING/OPEN DETONATION**

**ARE PROHIBITED DUE TO MORATORIUM**

**ALASKA/HAWAII/GUAM**

- **EXPECT TO RETROGRADE. (EXCEPT FOR EMERGENCY DESTRUCTION)**





# THAILAND INITIATIVES

- ASSETS GENERATED IN COUNTRY CAN BE DISPOSED OF LOCALLY.
- CANNOT SHIP ASSETS IN FOR PURPOSE OF DISPOSAL
- INFORMAL DISCUSSIONS: USARPAC AND JUSMAGTHAI



# JAPAN INITIATIVES

- **JOINT SERVICE MUNITIONS RESOURCE RECOVERY WORKING GROUP**
- **SURVEY OF OPEN BURNING/OPEN DETONATION SITES**
- **JAPANESE SELF-DEFENSE FORCE**
- **SURVEY OF INTERESTED LOCAL CONTRACTORS**
- **POSSIBLE COMMERCIAL CONTRACT**
- **DRMO/CONTRACTING OFFICE (YOKOTA)**
- **TRAINING/UNIT TURN-INS**
- **DEACTIVATION FURNACE FOR 83D ORD BN**
- **COORDINATION WITH DEFENSE FORCES FOR THE ESTABLISHMENT OF A JOINT USAGE OPEN BURNING/OPEN DETONATION SITE (ON GOING)**



# Joint Services Activities In Japan

- **JOINT SERVICE DEMIL WORKING GROUP**
  
- **83<sup>RD</sup> ORD BN CAPABILITIES**
  - **DEACTIVATION FURNACE**
  - **OPEN BURN AREA**
  
- **EXPLOSIVES ORDNANCE DISPOSAL (MARINES/AIR FORCE)**
  
- **ON GOING PROJECTS**
  - **ARMY**
  - **NAVY**
  - **AIR FORCE**
  - **MARINE CORPS**





# STATUS OF DEACTIVATION FURNACE - JAPAN

- ✓ FURNACE ON LINE: OCT 2000





# KOREA INITIATIVES

- **JOINT SERVICE MUNITIONS RESOURCE RECOVERY WORKING GROUP**
- **SURVEY OF OPEN BURNING/OPEN DETONATION SITES**
- **SINGLE AMMUNITION LOGISTICS SYSTEM-KOREA (SALS-K) MOA (CONTRACT)**
- **COMMERCIAL CONTRACT**
- **POSSIBLE TRANSFER TO ROKA (WRSA TRANSFER)**
- **DRMO ASSISTANCE (TO DISPOSE OF RESIDUE)**
- **LEGAL COUNSEL OPINION**
- **KOREAN PATRIOTS AND VETERANS ASSOCIATION (KPVA)**
- **MINISTRY OF NATIONAL DEFENSE (MND)**
- **TRAINING/UNIT TURN-INS**
- **ROKA INTEREST**
- **PURSUING MUNITIONS RESOURCE RECOVERY FACILITY FOR KOREA (OPERATED BY MND/GOVERNMENT CONTRACTOR)**



# CONTRACTS

## KOREA

**UNDER SINGLE AMMUNITION LOGISTICS-KOREA (SALS-K) REPUBLIC OF KOREA ARMY (ROKA) IS RESPONSIBLE FOR DISPOSAL OF U.S. ARMY OWNED MUNITIONS IN KOREA AND COMMERCIAL MUNITIONS RESOURCE RECOVERY IS OUTSIDE THE PURVIEW OF ROKA RESPONSIBILITY.**

**ROK MINISTRY OF NATIONAL DEFENSE (MND) LOGISTICS ADVISES THAT CURRENT LAWS HAVE NO PROVISIONS WHICH ALLOW COMMERCIAL DEMILITARIZATION OF DEFENSE MATERIEL.**

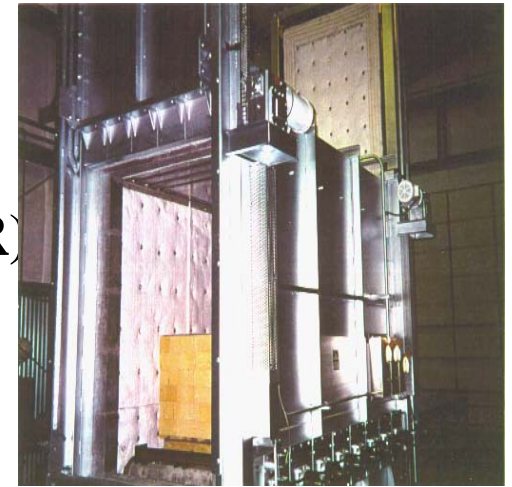
**THE FEASIBILITY OF PURSUING A CONTRACT IN KOREA IS A LONG RANGE OBJECTIVE WITH MANY LEGAL DETAILS TO BE WORKED OUT.**

**CURRENT FOCUS IS TO FIND WAYS TO INCREASE MND'S RESOURCE RECOVERY CAPABILITY.**



# R3 FACILITY – KOREA (DEFAC)

- **JOINT US/ROK DEMILITARIZATION FACILITY IS THE PRODUCT OF A MOA SIGNED IN 1999 (US/ROK)**
- **FACILITY WILL BE SHARED BY ROK AND US**
- **ROK-MND SELECTED AN EXISTING MUNITIONS STORAGE AND PROCESSING SITE NEAR HWANG-GAN, KOREA FOR CONSTRUCTION**
- **NEW MOA SIGNED 4 SEP 2003**
- **GROUND BREAKING CEREMONY START CONSTRUCTION MAR 07 (FOR INCINERATOR)**
- **TARGET DATE FOR OPERATIONS – APR 09**





## R3 FACILITY – KOREA (DEFAC)

- Provide the capability in Korea to dispose of unserviceable munitions in a timely and cost-effective manner.
- ROK Provides: Land, buildings, utilities, ammo storage and transportation
- US Provides: Equipment and installation, employee training, surveillance and production control
- Design capacity --- approx. 10,000 short tons annually



# R3 FACILITY – KOREA (DEFAC)

- CAPABILITY OF DEFAC INCLUDES:
  - MELTOUT (20 KETTLES)
  - INCINERATION ( 1 ROKA OWNED FURNACE)
  - PROPELLANT CONVERSION TO FERTILIZER SYSTEM



# R3 FACILITY – KOREA (DEFAC)

- FACTS
- ROK-MND RELEASED \$23.58M TO ROK ARMY FOR CONSTRUCTION OF JOINT USE DEFAC AND PROCUREMENT ON AN INCINERATOR.
- PROVIDED \$9.8M FOR LOCAL COMMUNITY WELFARE PACKAGE FUNDED THROUGH ROK ARMY.
- YONGDONG COUNTY OFFICE ISSUED CONSTRUCTION PERMIT FOR DEFAC SITE IN JUN 05.



# PACIFIC RIM NATIONS

- **PACIFIC AREA SENIOR OFFICERS LOGISTICS SEMINAR.**
  
- **PASOLS INITIATIVE NO. 27 : “ESTABLISH A DEMILITARIZATION FACILITY AVAILABLE FOR ALL COUNTRIES IN THE PACIFIC THEATER TO DISPOSE OF UNWANTED MUNITIONS.”**  
**(CURRENTLY ON HOLD)**
  
- **COUNTRIES WITH CANDIDATE ASSETS FOR DISPOSAL PROGRAMS.**
  - oo **JAPAN**
  - oo **CHINA**
  - oo **PHILIPPINES**
  - oo **BRUNEI**
  - oo **SINGAPORE**
  - oo **TAIWAN (NON PASOLS)**





# PASOLS

**PASOLS INITIATIVE NO. 27 (ON HOLD PER PACOM J4)**

**GOAL: DEVELOP PACIFIC REGIONAL DEMILITARIZATION FACILITIES.**

**STATUS: MEMBER NATIONS HAVE CONVENTIONAL WEAPONS AND MUNITIONS REACHING END OF SERVICE LIVES REQUIRING DISPOSITION. WORKING GROUP MEETINGS ARE NORMALLY HELD IN CONJUNCTION WITH WORLDWIDE DISPOSAL CONFERENCES. U.S. REPRESENTATIVES BRIEF CURRENT CAPABILITIES AND STATUS TO THE WORKING GROUP.**

**LOGISTICS STEERING GROUP (LSG) DECISIONS: ENCOURAGED INTERESTED MEMBERS TO CONSIDER PARTNERING WITH U.S. TO BUILD ADDITIONAL DEMILITARIZATION FACILITIES IN THE PACIFIC THEATER AND TO SEND DELEGATES TO THE GLOBAL DEMILITARIZATION SYMPOSIUMS & EXHIBITIONS.**



# BOTTOM LINE

- **ALL SERVICES, AT ALL LEVELS IN PACOM, ARE WORKING TOGETHER, TO CREATE A ENVIRONMENTALLY SOUND AND FISCALLY RESPONSIBLE DEMILITARIZATION PROGRAM.**