



**Federal Aviation  
Administration**

# **New Field Organization Western Service Area**

**Fostering Aviation Safety & Infrastructure Development Thru Government & Industry  
Partnerships**

Presented to: 2007 Pacific Aviation Directors Workshop

By: Edward P. Moy, Director – Technical Operations

Western Service Area

Date: March 26 – 29, 2007



# STRUCTURE

- Level 6 - ATO Chief Operating Officer
- Level 5 - Service Unit Vice President
- Level 4 - Service Area Director
- Level 3 – Districts/Technical Services/Engineering Services Managers
- Level 2 – Group Managers
- Level 1 – Center Managers

- ★ District Office
- GNAS Office
- ARTCC
- ◆ OEP Airport
- ▲ Large TRACON
- ▲ SSC
- ✈ OCC



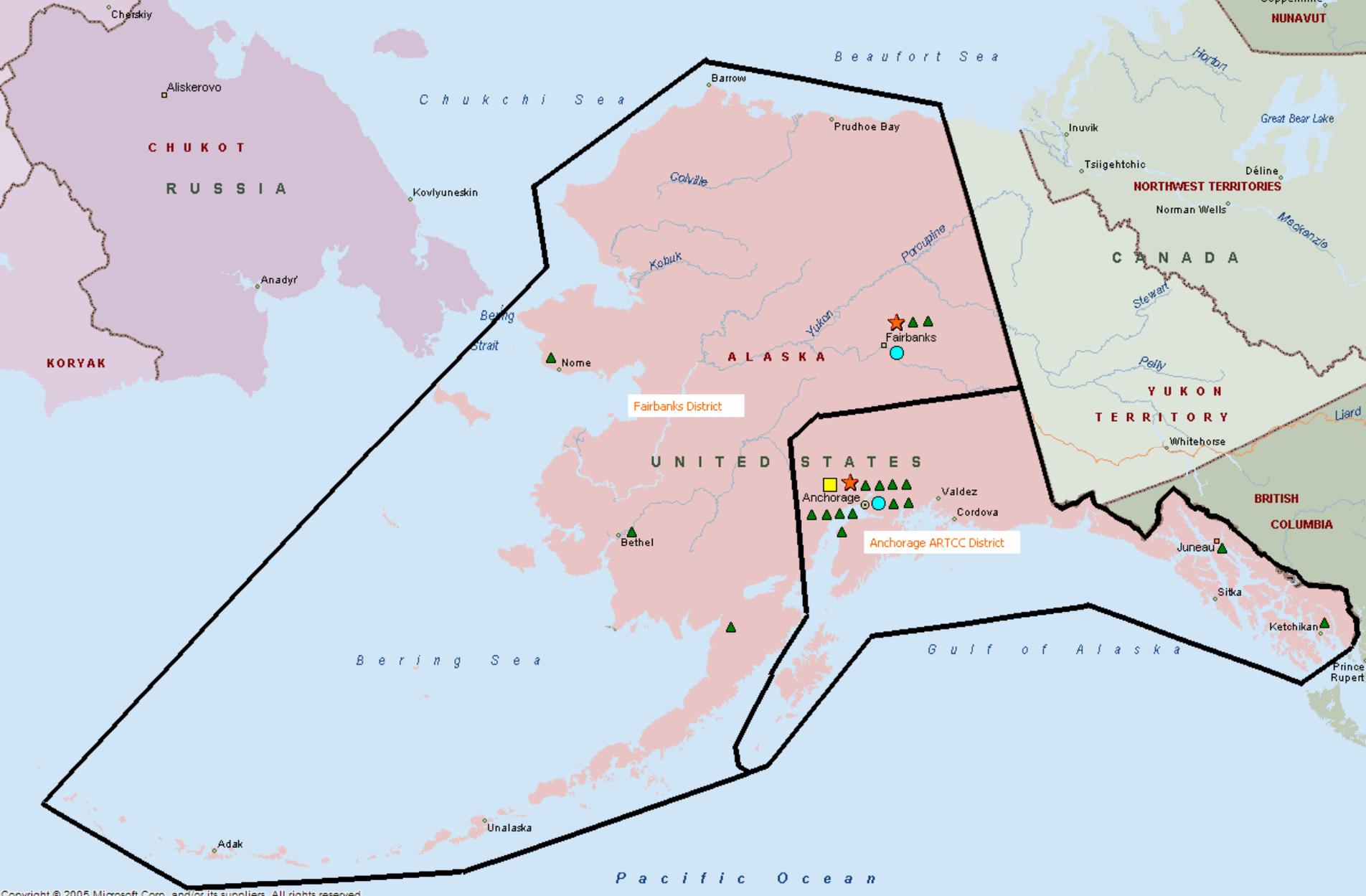
**ATO TECHNICAL OPERATIONS Western Service Area**

Copyright © 2005 Microsoft Corp. and/or its suppliers. All rights reserved.

2007 Pacific Aviation Directors Workshop (Koror, Republic of Palau)

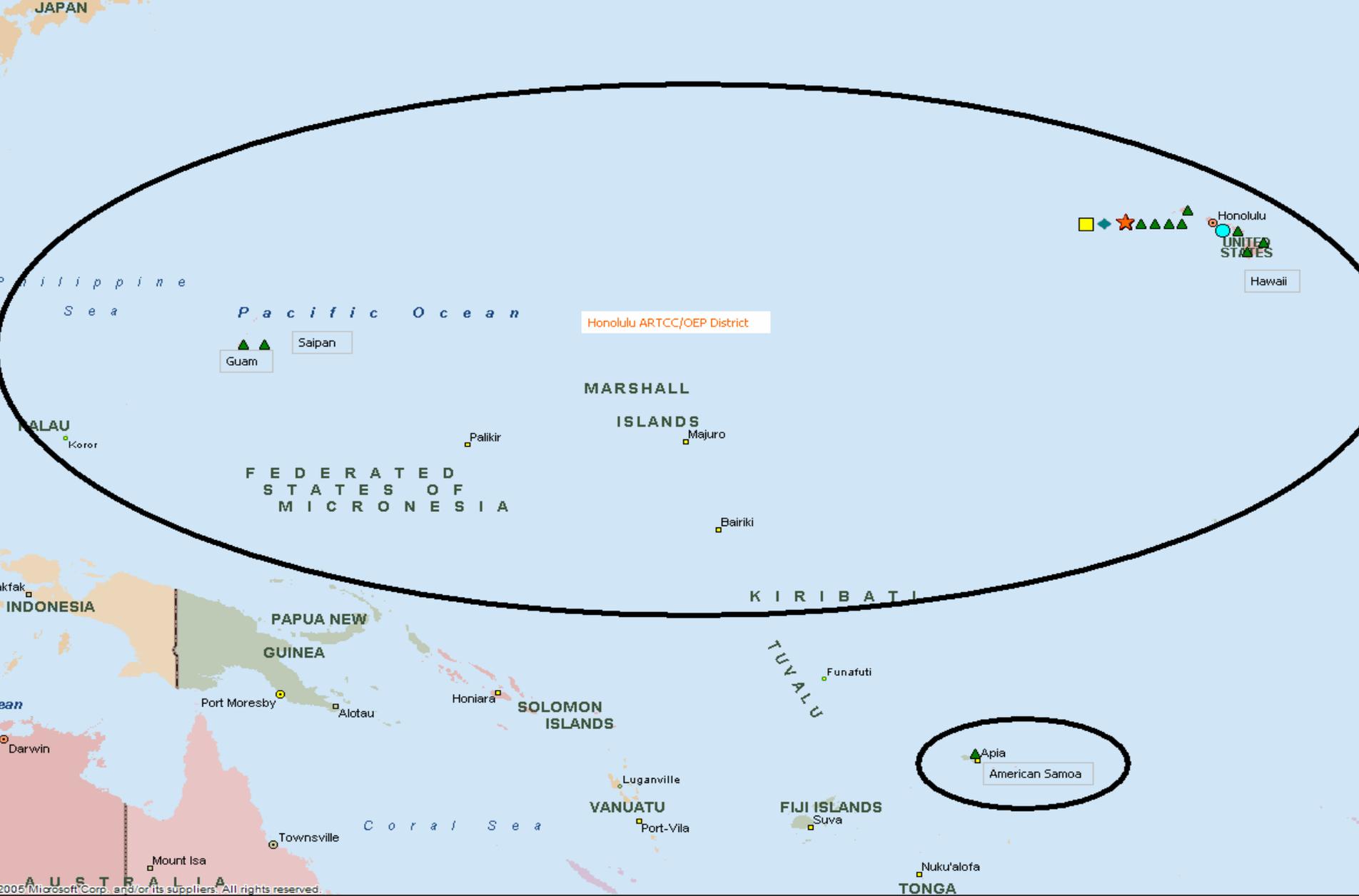


Federal Aviation Administration



Copyright © 2005 Microsoft Corp. and/or its suppliers. All rights reserved.

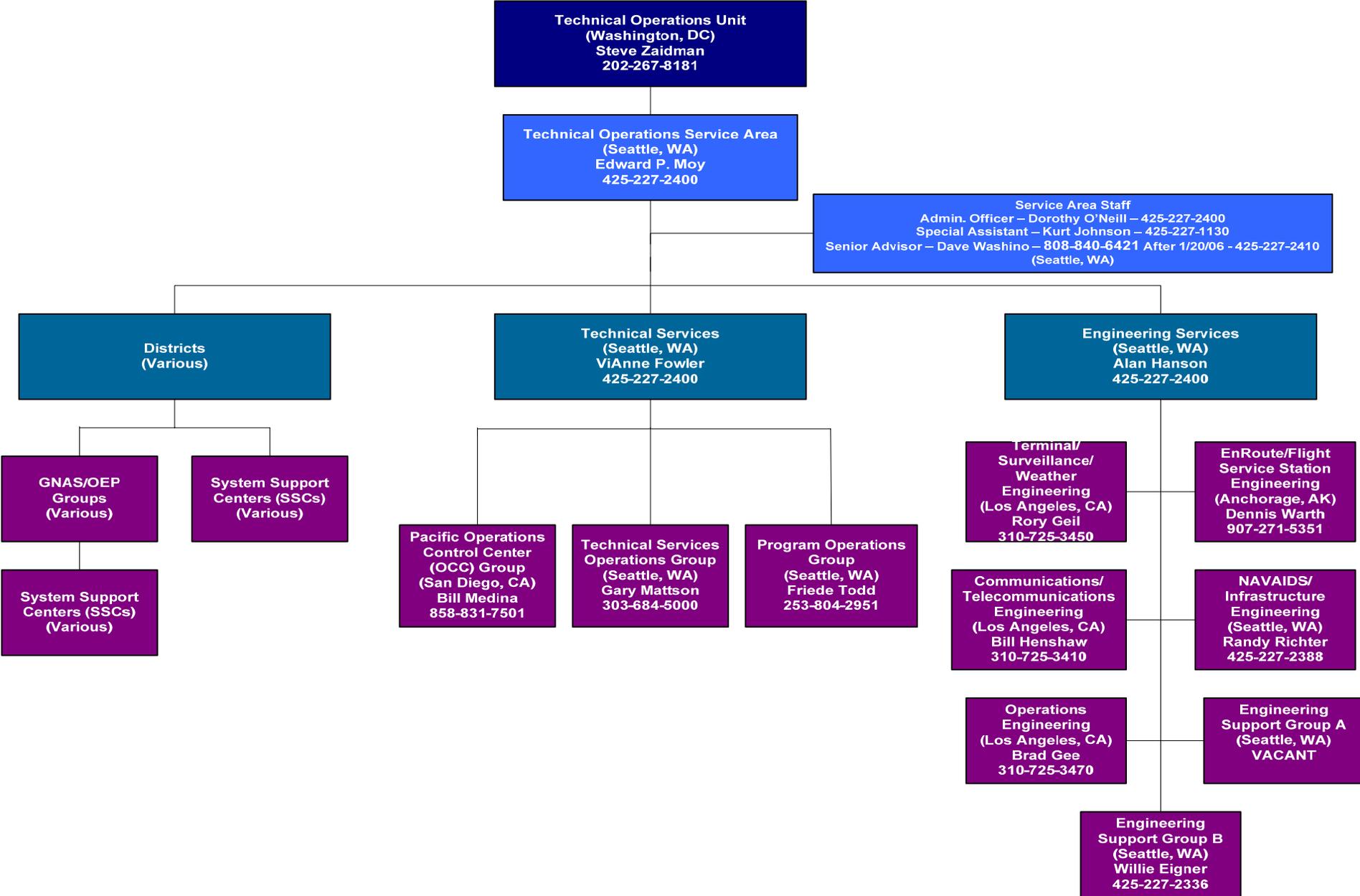




Honolulu ARTCC/OEP District

American Samoa





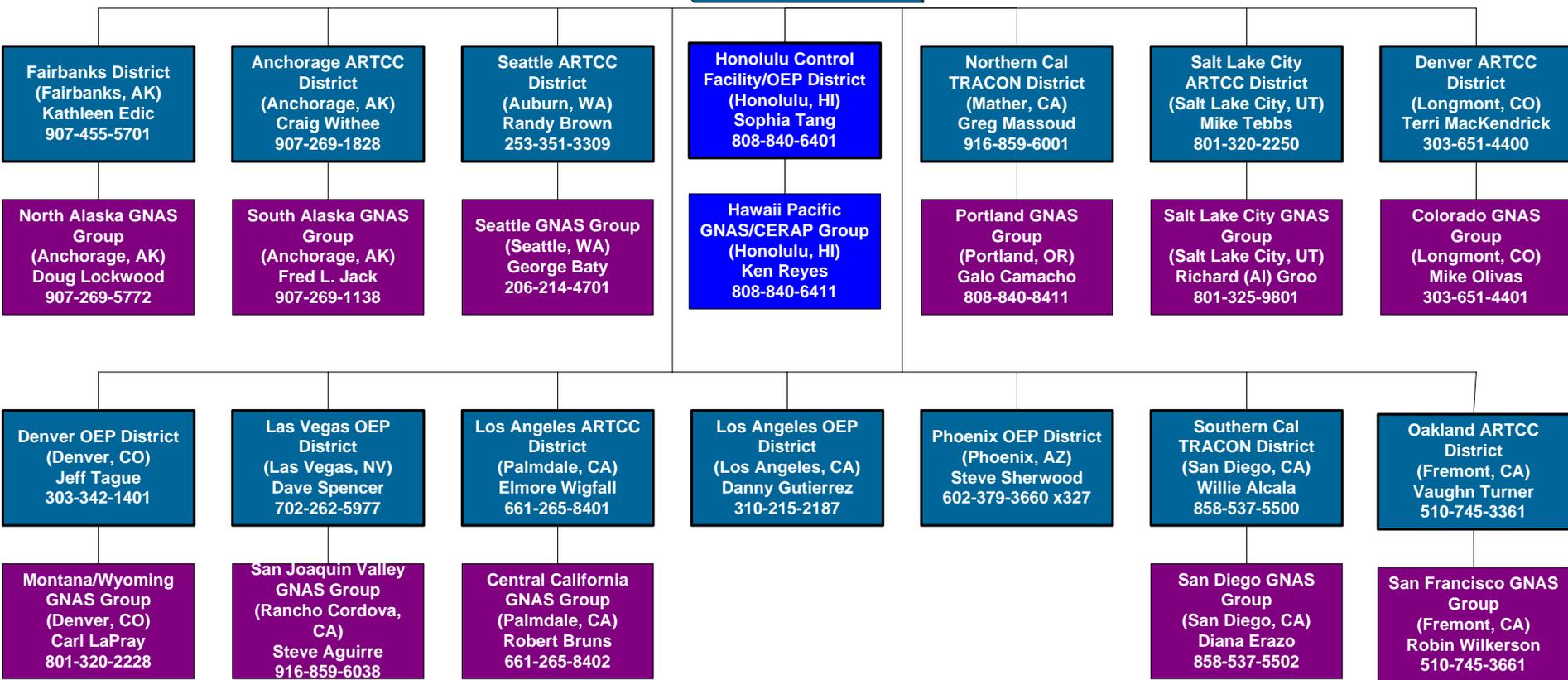
# DISTRICTS

- Aligns more closely with EnRoute and Terminal structures
- Located at high impact facilities (ARTCCs, large TRACONS, and selected OEPs)
- GNAS and other OEPs report to Districts
- SSCs may report to a District or a GNAS Group



# Districts

Western Service Area  
 Technical Operations  
 Director of Operations  
 Edward P. Moy  
 425-227-2400  
 (Seattle, WA)

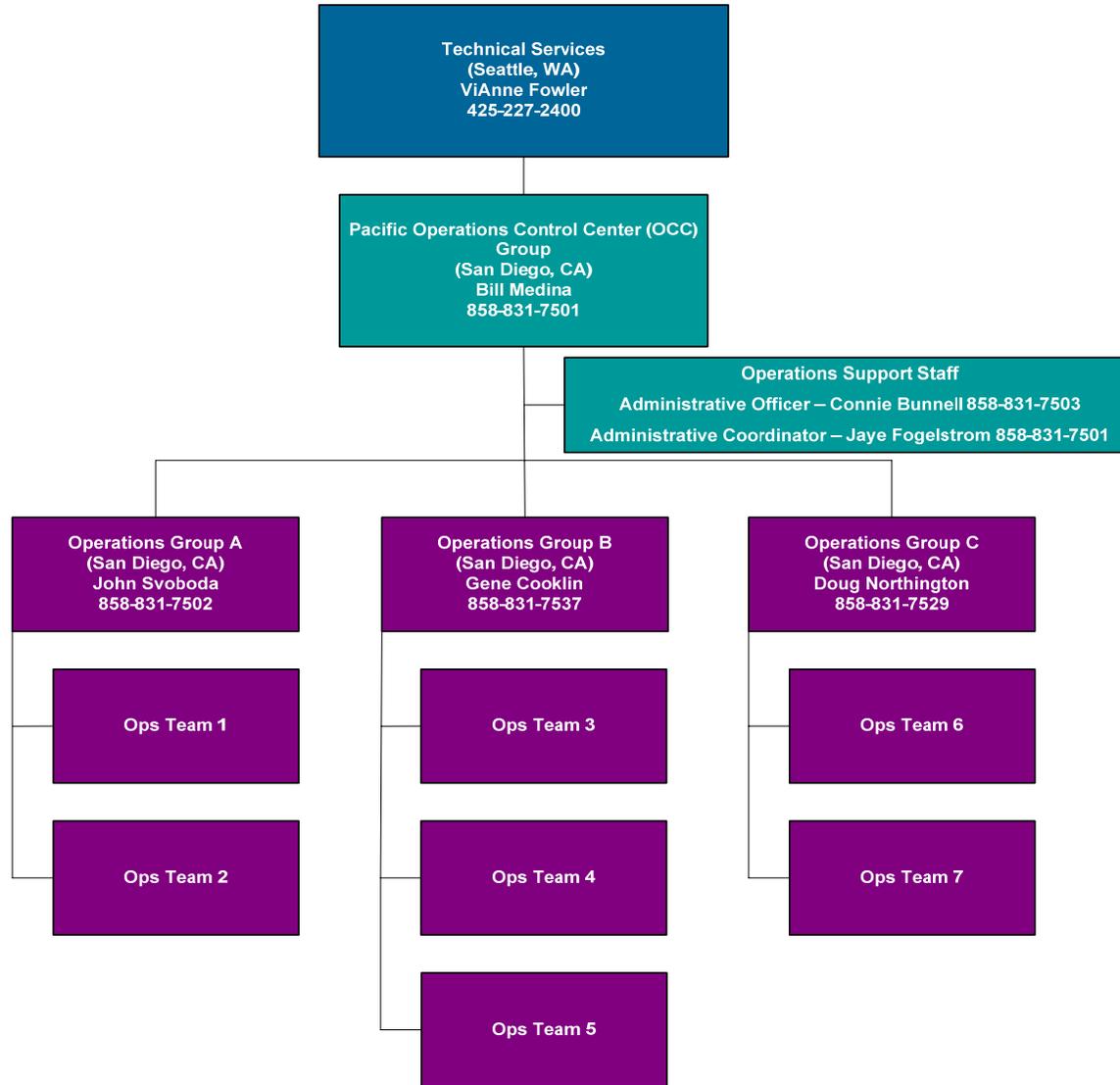


# TECHNICAL SERVICES INCLUDES

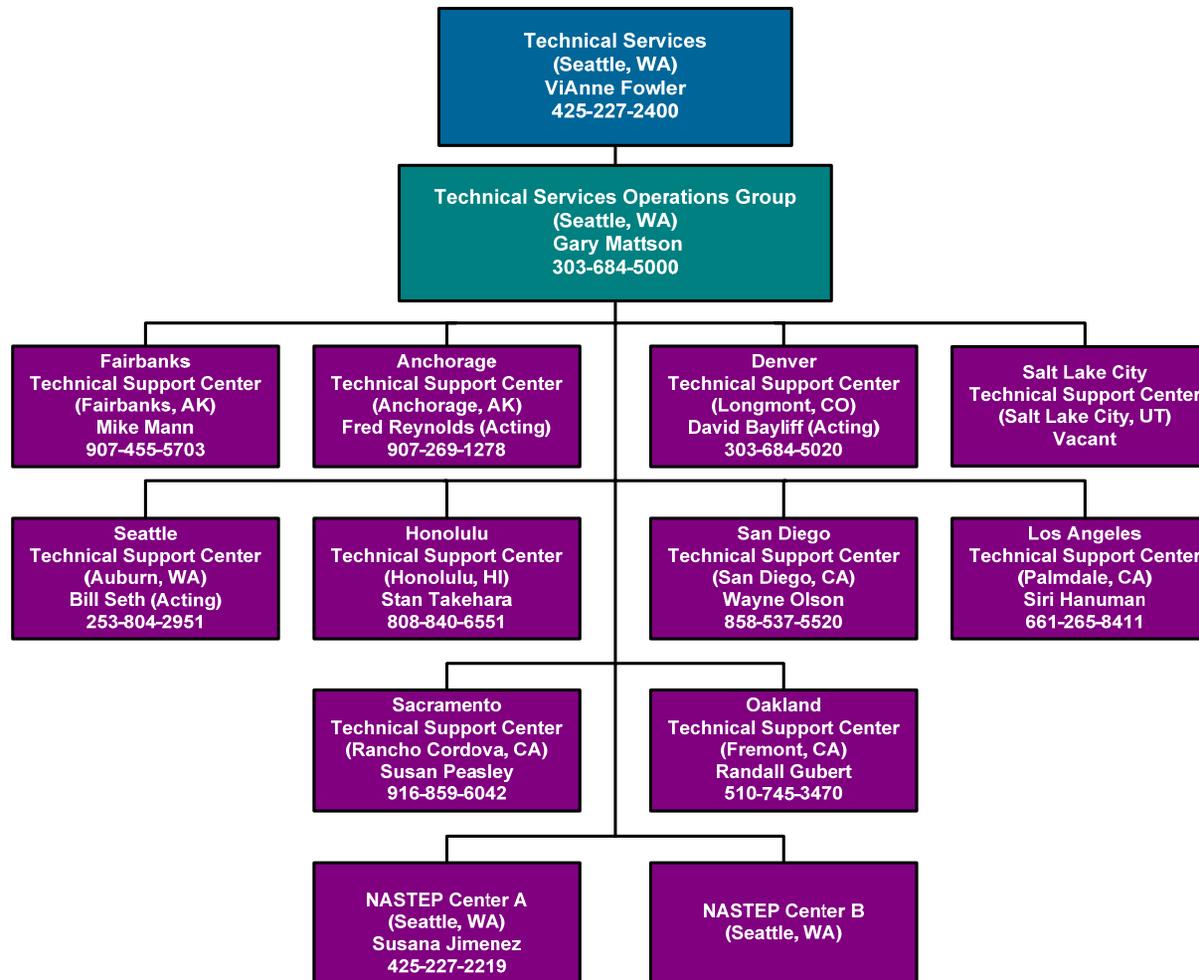
- Operations Control Center (OCC)
- Technical Services Operations Group
- Program Operations Group



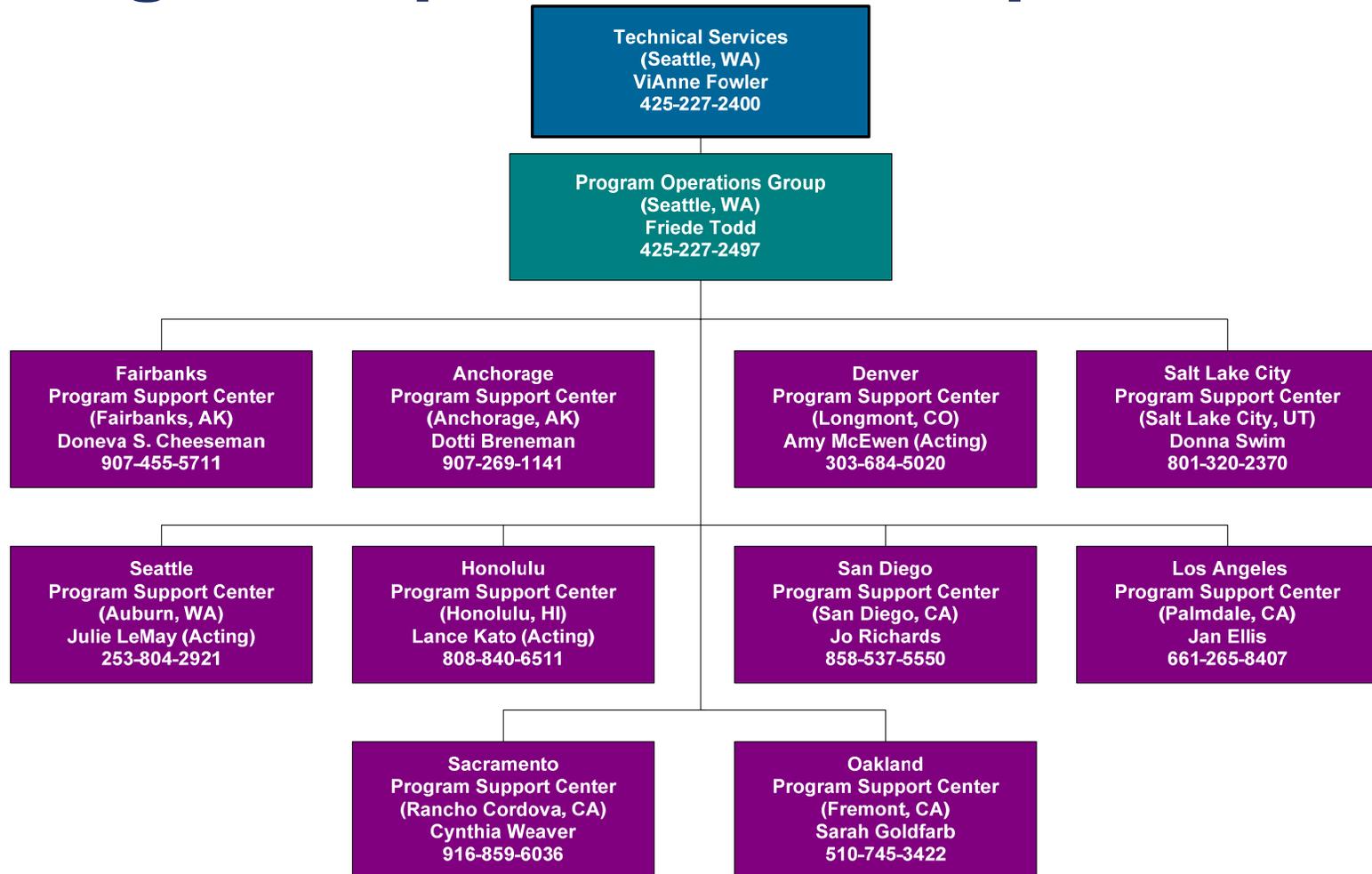
# Pacific Operations Control Center



# Technical Operations Support Group



# Program Operations Group

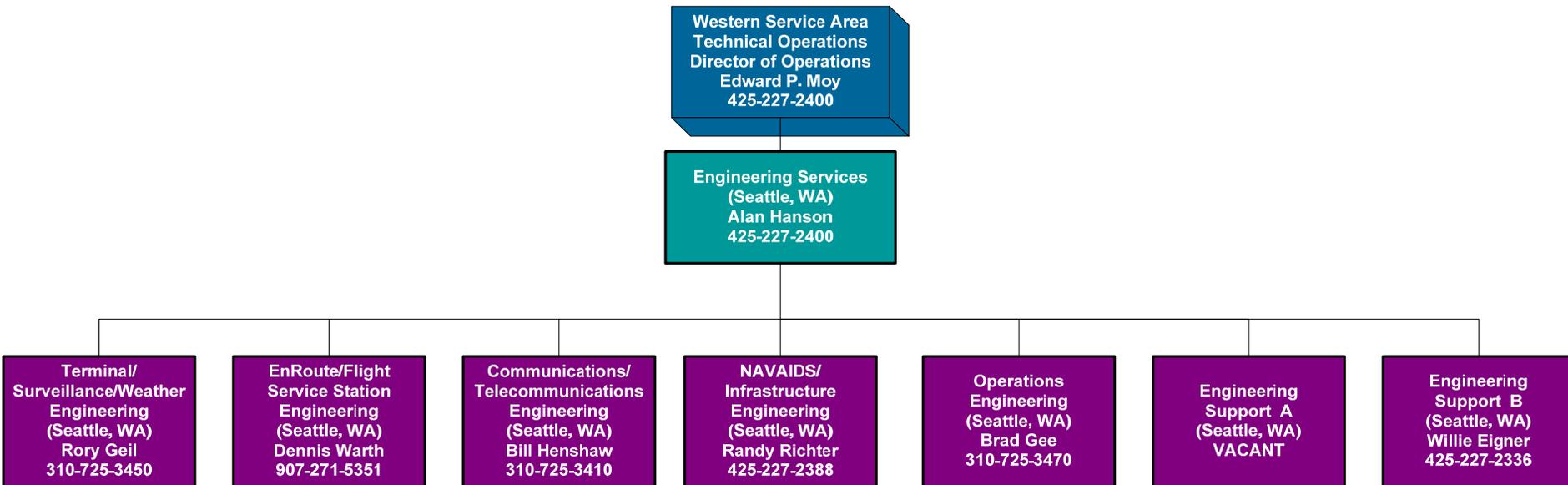


# ENGINEERING SERVICES

- Operations and F&E Design/Integration Engineering
- Project Management
- Operations Support
- Construction and Installation
- Engineering Cost Estimating
- TSSC Management
- CAEG



# Engineering Services





**Federal Aviation  
Administration**

# **Field Maintenance Party Western Service Area**

**Fostering Aviation Safety & Infrastructure Development Thru Government & Industry  
Partnerships**

Presented to: 2007 Pacific Aviation Directors Workshop

By: Sophia S. Y. Tang

Manager, Honolulu Control Facility/OEP District

Date: March 26 – 29, 2007



# Topics

- **FMP Crew**
  - Hurricane & Typhoon Recovery Efforts

# Facility Maintenance Party – Crew

- Cyclone Heta (American Samoa) 2004
  - VORTAC
    - Replace damaged roof
    - Replace damaged siding
    - Replace soffit
    - Replace doors at transformer vault
  - Training Center
    - Remove damaged metal roof
    - Scab in new rafters
    - Install new roof
    - Install new top plate
    - Install roof support posts
  - NDB
    - Replace cable shackles
    - Set tension on guy wires
    - Repair chain link fence
  - VASI
    - Replace legs on VASI boxes/Reset VASI boxes

# Facility Maintenance Party – Crew

- Super Typhoon Paka 1997
  - CERAP
    - Remove 900sq ft of asbestos floor tile and mastic/Install new flooring
    - Remove storm damaged walls/Build new walls
    - Replace rain drains, repair roof
    - Install new drop ceiling in meeting room
    - Replace doors, repair walls, remove electric boxes and cable trays from offices
  - ATCT Base Building
    - Demo second floor interior walls, ceilings, lights and remove asbestos floor tile and mastic, remove carpet, demo and remove air handler unit
    - Remove asbestos floor tile and mastic from first floor
    - Build new walls on second floor/Install new lights and drop ceiling
  - ARSR-4
    - Repair/Replace Antenna Roof
  - MALSR
    - Replace roof

ARSR-4 Antenna Damage

# Facility Maintenance Party – Crew

- Super Typhoon Pongsona (Guam) 2002
  - MALSR
    - Repair damaged MALSR towers
    - Repair fences, posts and gate
  - CERAP
    - Repair upper and lower roofs
    - Straighten railing, remove broken antennas and mounts
    - Install new antennas and mounts
    - Remove damaged wall at EG cutout switch
    - Install new wall, repair ladder from 1st floor roof to 2nd floor roof
  - ASR-8
    - Replace missing soffit at EG building
    - Repair roof
  - UNZ NDB
    - Replace/Repair Antenna
  - VOR
    - Repair roof



UNZ NDB

0313 GMS-5 01 8 DEC 02342 063300 04077 04719 01.00

# ETOP



## Midway Island



## Midway Island – AWOS



**Midway Island – NDB**



**Federal Aviation  
Administration**

# **Infrastructure Development & Aviation System Implementation Thru Reimbursable Agreements**

Presented to: 2007 Pacific Aviation Directors Workshop

By: Sophia S. Y. Tang, Manager – Technical Operations

Honolulu Control Facility/OEP District

Date: March 26 – 29, 2007



# Agreements – State of Hawaii

- Kalaeloa – Agreement with the State of Hawaii to furnish maintenance and supply support service to electronic equipment located at Kalaeloa Airport.
- FAA Maintained Equipment:
  - A/G Radio Equipment used by ATCT
  - Radio Receivers
  - All Radio Antennas
  - ASOS-ATIS Interface Unit
  - RDVS
  - DVRS
  - ACE-IDS
  - RCW
  - Codex Modem
  - FDIO Equipment
  - F420
  - ILS (future installation-congressional funding)
- Under this reimbursable agreement the State will reimburse the FAA for wages, benefits, COLA and administrative overhead costs for an H-band ATSS to maintain electronic equipment.



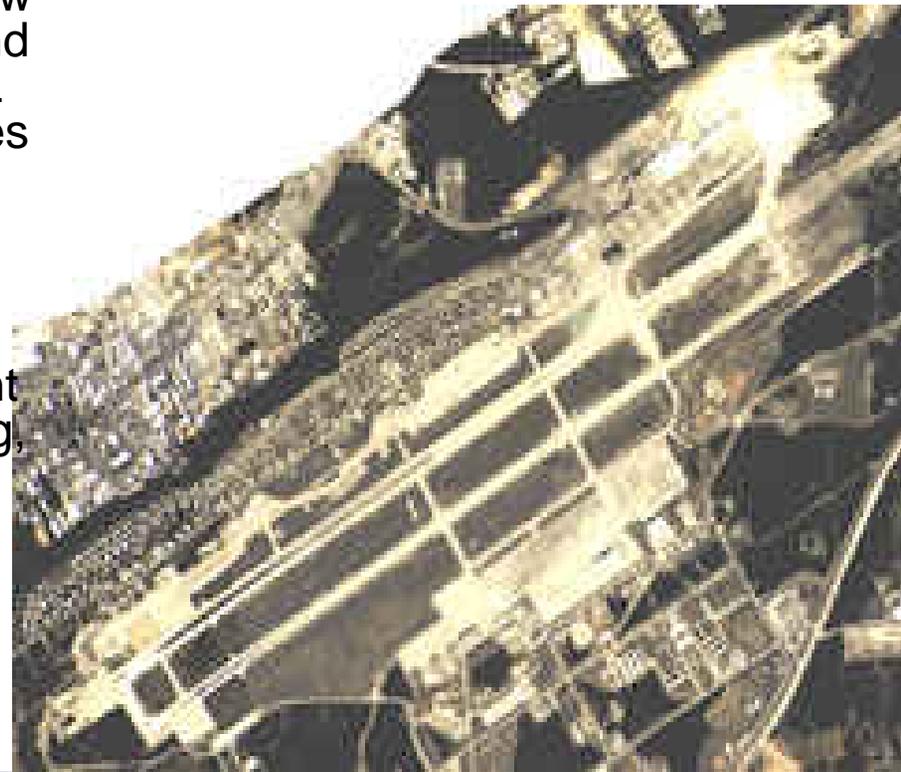
# Agreements – Guam

## Antonio B. Won Pat International Airport

(Guam International Airport)

- Guam ILS – This Reimbursable Agreement is to establish a precision approach for Rwy 6R in order to minimize down time for runway/taxiway extension work on 6L. New MK-20A ILS, Thales 415 DME, MALSR, and PAPI will be installed on 6R. Once Rwy 6L work is completed, new MK-20A ILS, Thales 415 DME, and MALSR will be established.

- Currently, work for Rwy 6R has begun this calendar year. Anticipate installation of navigational and visual aids FAA equipment in summer 2007. Tentative commissioning, Fall 2007.



# Agreements – CNMI

- Tinian (TNI) ILS – Agreement in process.
  - This work includes an MK-20A ILS, DME, and a MALSR to be installed on the airport.
  - The CNMI Government will finance the design and installation.
  - Additionally, the CNMI Government wants the FAA to maintain and operate the system. The NAVAID equipment is FAA supply-supportable.
- Saipan (GSN) MALSR – Checks in the mail.
  - This work includes the relocation of the MALSR building out of the runway safety area.
  - Replace MALSR light bars.



# Agreements – FSM – Chuuk

- Chuuk (TKK) NDB/DME Relocation – Service Center in Seattle is working on the agreement.





**Federal Aviation  
Administration**

# **Guam, CNMI & Micronesia Ops/Project Updates**

Presented to: 2007 Pacific Aviation Directors Workshop

By: Franklin S. Mesa, Manager – Technical Operations

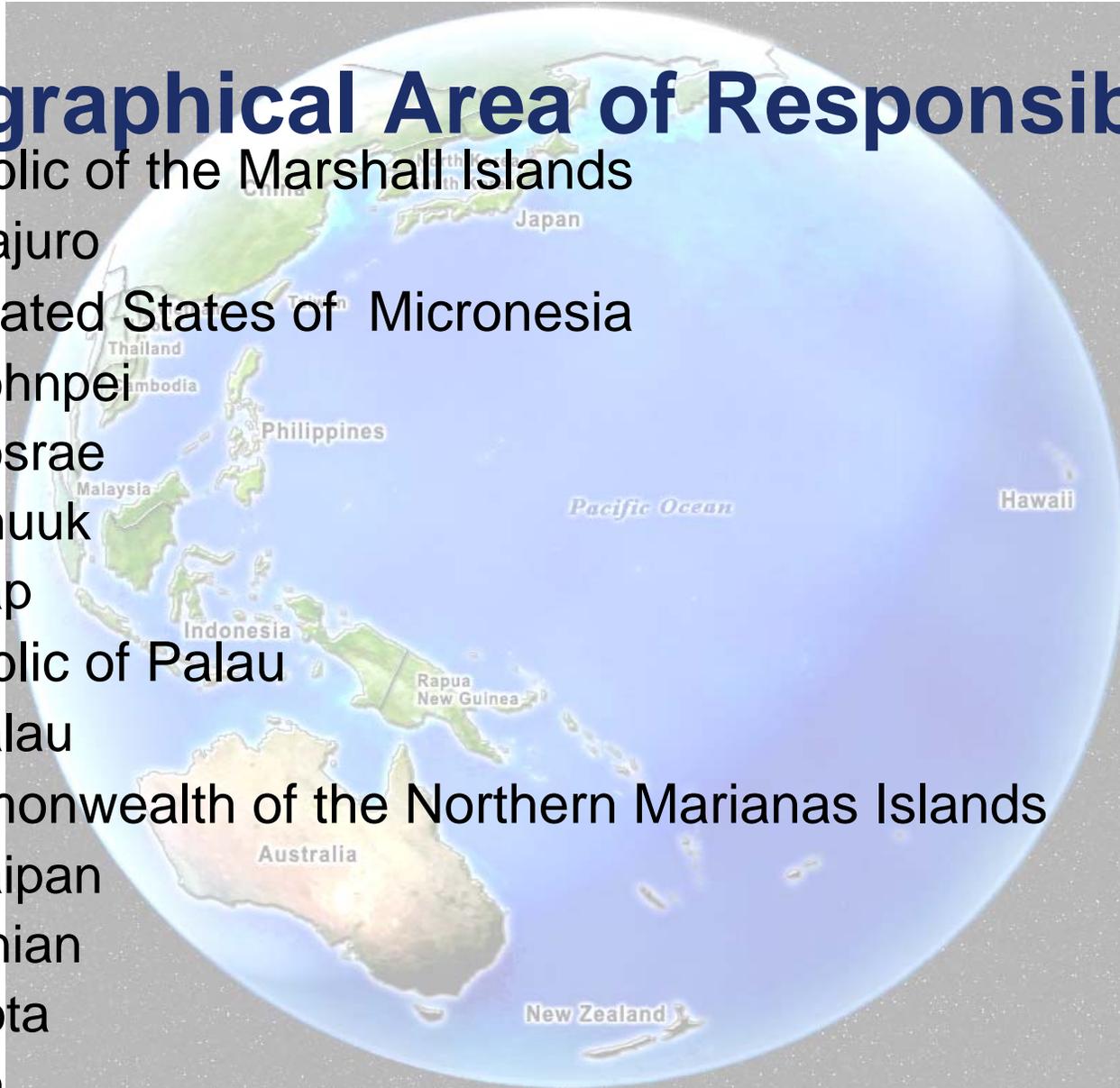
Guam Navigation/Communication/Environmental System Support Center

Date: March 26 – 29, 2007

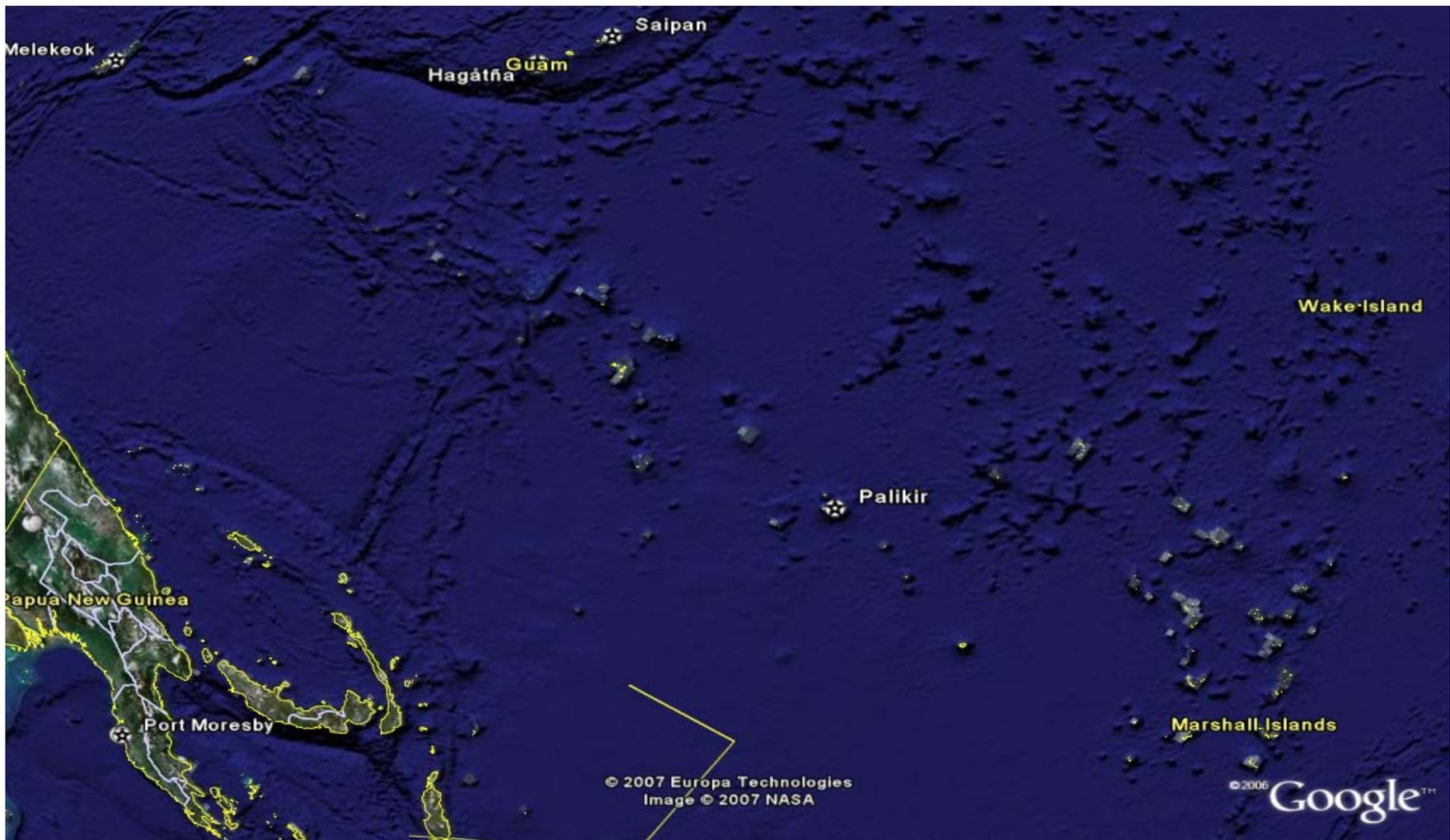


# Geographical Area of Responsibility

- Republic of the Marshall Islands
  - Majuro
- Federated States of Micronesia
  - Pohnpei
  - Kosrae
  - Chuuk
  - Yap
- Republic of Palau
  - Palau
- Commonwealth of the Northern Marianas Islands
  - Saipan
  - Tinian
  - Rota
- Guam



# Micronesia



# United States



# Improvements for 07 and Beyond

- **Kosrae Replace NDB/DME Shelter**
- **Pohnpei Relocate NDB/DME Shelter**
- **Pohnpei OTS PAPI / Commission PLASI / RTS PAPI**
- **Chuuk Relocate NDB/DME Antenna and Shelter**



**PLASI**  
**Pulse Light Approach**  
**Slope Indicator**



# Improvements for 07 and Beyond

- **Guam ILS, MALSR, PAPI for RWY 06R**
- **Tinian ILS, MALSR, PAPI**
- **Saipan Relocate LOC Shelter and Antennas**
- **Saipan Relocate MALSR Shelter and Replace Light Bars**
- **Republic of Marshall Islands new SAWRS**
- **Federated States of Micronesia new SAWRS**
- **Republic of Palau new SAWRS**



# Challenges for 07 and Beyond

- **Provide technical assistance for the testing and commissioning of the Guam ILS, PAPI, and MALSR systems.**
- **Provide technical assistance for the testing and commissioning of the Tinian ILS, PAPI, and MALSR systems.**
- **Provide technical assistance for the TKK NDB relocation.**



# Challenges for 2007 and Beyond

- **Coordinate and oversee the design, procurement, and installation of electronic, and administrative equipment for the SAWRS**
  - Wayne Lynch Provides Engineering Services
  - Nhan Nguyen Provides Engineering Services
- **Provide assistance as needed for the ARFF/SAWRS Airport Improvement Projects**
- **Provide technical assistance for the Pohnpei runway rehabilitation project**



# SAWRS Status

- **Communication Equipment (ICOM)**
- **Wind Speed and Direction Indicator**
- **Computer Systems**
- **Power Systems**
- **LAN System**
- **Telephones**
- **Floor Plan**
- **Furniture**

# Communication Equipment



# SAWRS Equipment

## F420 Wind Speed and Direction Indicators



# SAWS Stand Alone Weather System



# AISRW Computer



## RICH, VIBRANT ENTERTAINMENT



# SAWRS Power Systems

- **6KVA Uninterruptible Power supply**
- **Provides enough AC power to sustain operations until engine generators are online.**



# SAWRS LAN System

- Router
- CAT5 cable to each computer system in the SAWRS operations area.

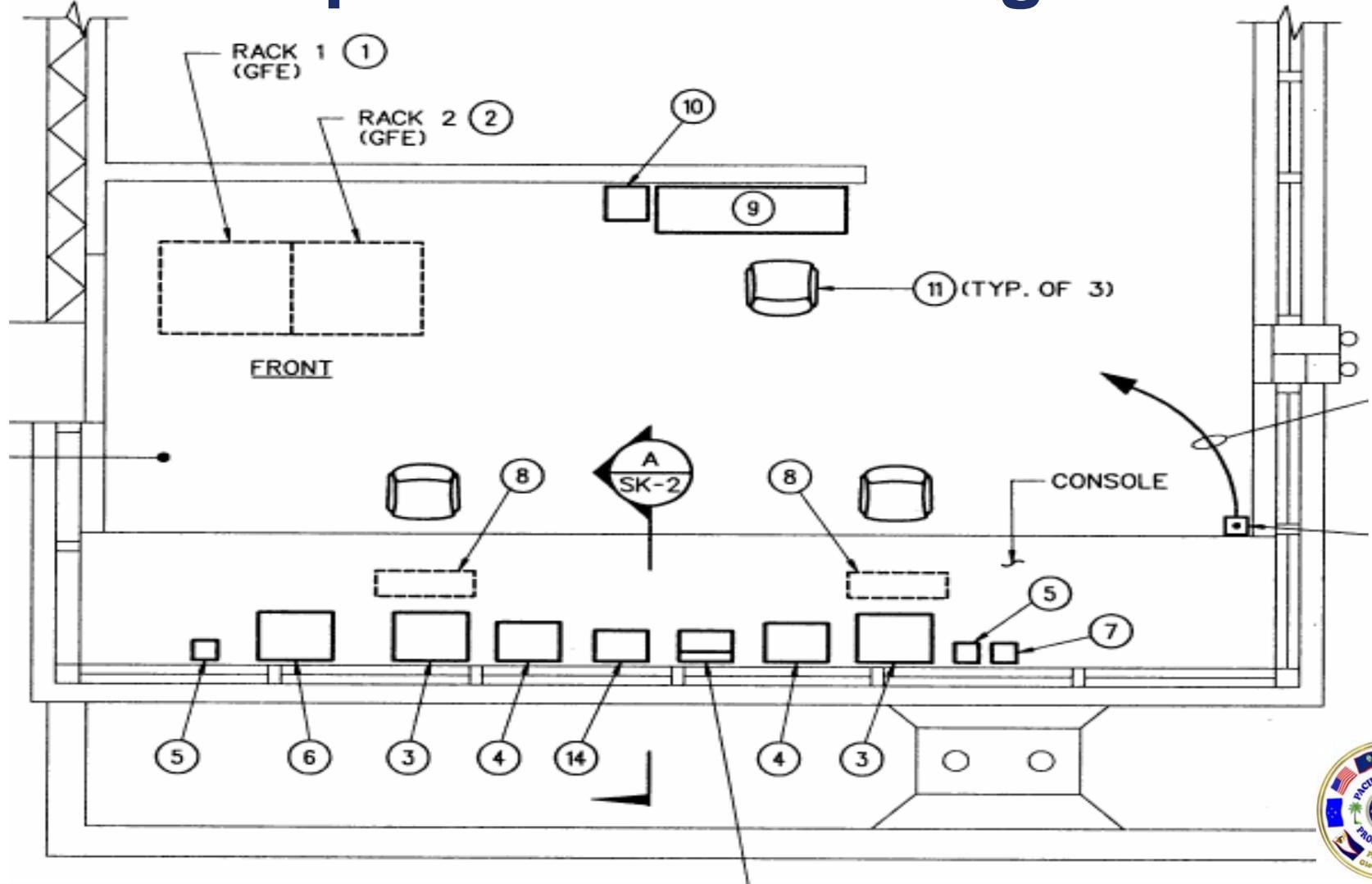


# SAWRS Telephone System

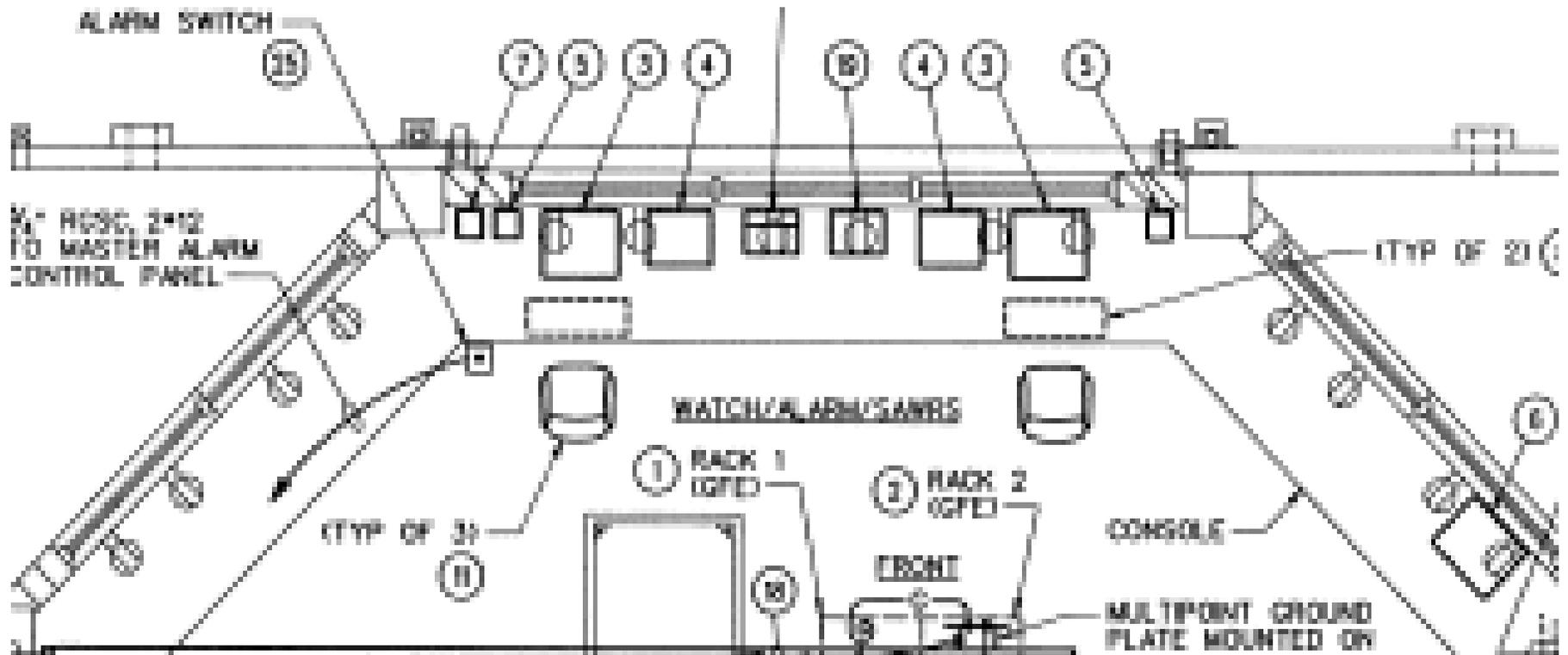
- **Two types of telephone units**
- **Cordless phone**
- **Hardwired telephone independent of AC power for each position**



# Palau Airport – SAWRS Diagram



# Federated States of Micronesia



# Majuro SAWRS

