

# Aviation Safety and Infrastructure Development

FAA Western-Pacific Region

2007

# Partnership Pacific Air Carriers

Continental Airlines

Continental Micronesia

Japan Airlines

Northwest Airlines

Asiana Airlines

Pacific Island Aviation

Mandarin Airlines

Caroline Islands Air

Air Marshall Islands

Cape Air

Aloha Airlines

Centennial Air

Far Eastern Airlines

Belau Air

Freedom Air

Hawaiian Airlines

Asia Pacific Airlines

All Nippon Airways

Island Air

Palau Micronesia Air

# Benefits to Pacific Air Carriers

- Runway & Pavements Improvements
- ARFF Vehicles/Equipment/Training
- ARFF facilities
- Navaids/Communications Upgrades
- REIL/PAPI/Runway Lighting
- Self-sufficient Emergency Power
- Initial improvements to GPS/RNAV Approaches
- Weather Observation Enhancements/Co-location
- FOD Sweepers
- Disaster Response Exercises
- FAA Training

# 2001 Industry Panel Concerns

- ARFF Capability
  - Needs to be maintained
  - Short of ICAO Standards
- Recurrent ARFF Training
- Disaster Response Plan and Exercises
- Mid-air Collision Avoidance in uncontrolled Airspace: SPN, ROR
- VFR Operations in Oceanic Airspace

# 2002 Industry Panel Concerns

- Endorse Recurrent ARFF Training
- Encourage follow-on maintenance of equipment/facilities
- Encourage Disaster Response Planning and Exercises
- Support revised VNAV GPS Approaches
- SPN STAR for VFR traffic deconfliction
- Enhance weather reporting capabilities

# 2003 Industry Panel Concerns

- Upgrade Weather Observation & Forecasting
- Need ATC VHF Communication KWA-MAJ
- Need VNAV Instrument Approaches
- Endorse Recurrent ARFF Training
- Encourage follow-on maintenance of equipment/facilities
- Encourage Disaster Response Planning and Exercises

# 2004 Industry Panel Concerns

- Encourage follow-on maintenance of equipment/facilities
- Upgrade Weather Observation & Forecasting
- Endorse Recurrent ARFF Training
- Encourage Disaster Response Planning and Exercises
- IOU-Need VNAV/RNAV Instrument Approaches
- IOU-VHF Link from Kwajalein-to-Majuro
- IOU-Runway-end turnarounds

# 2005 Industry Panel Concerns

- Safety-
  - CNMI Radar coverage
  - Weather Observations all airports/Comms TTK
  - FOD Prevention - Runway end turnarounds
- Reconstruction-Runway and Ramp Surfaces
- Standards
  - RNAV/VNAV Approaches – Not standard
  - Need Obstruction Surveys
- Capacity Enhancement
  - Remove issues that make carriers need to carry extra fuel instead of payload.
  - KWA-MAJ VHF Comm Link/ KWA Radar

# Continental Airlines

- World's fifth largest airline
- 3100 daily departures
- 150 domestic destinations
- 136 international destinations
- Sky Team alliance/400 jet aircraft
- 67 million passengers per year

# Number One Airline

Fortune Magazine

America's Most Admired

Most Admired Global Company

# Accolades

- JD Powers
- Fortune Magazine
- Best Airline in North America
- OAG Airline of the Year
- Best Executive/ Business Class

# Continental Fleet Update

- B-737 264
- B 757 58
- B767 26
- B 777 19
- B 787 Dreamliner 25 firm orders

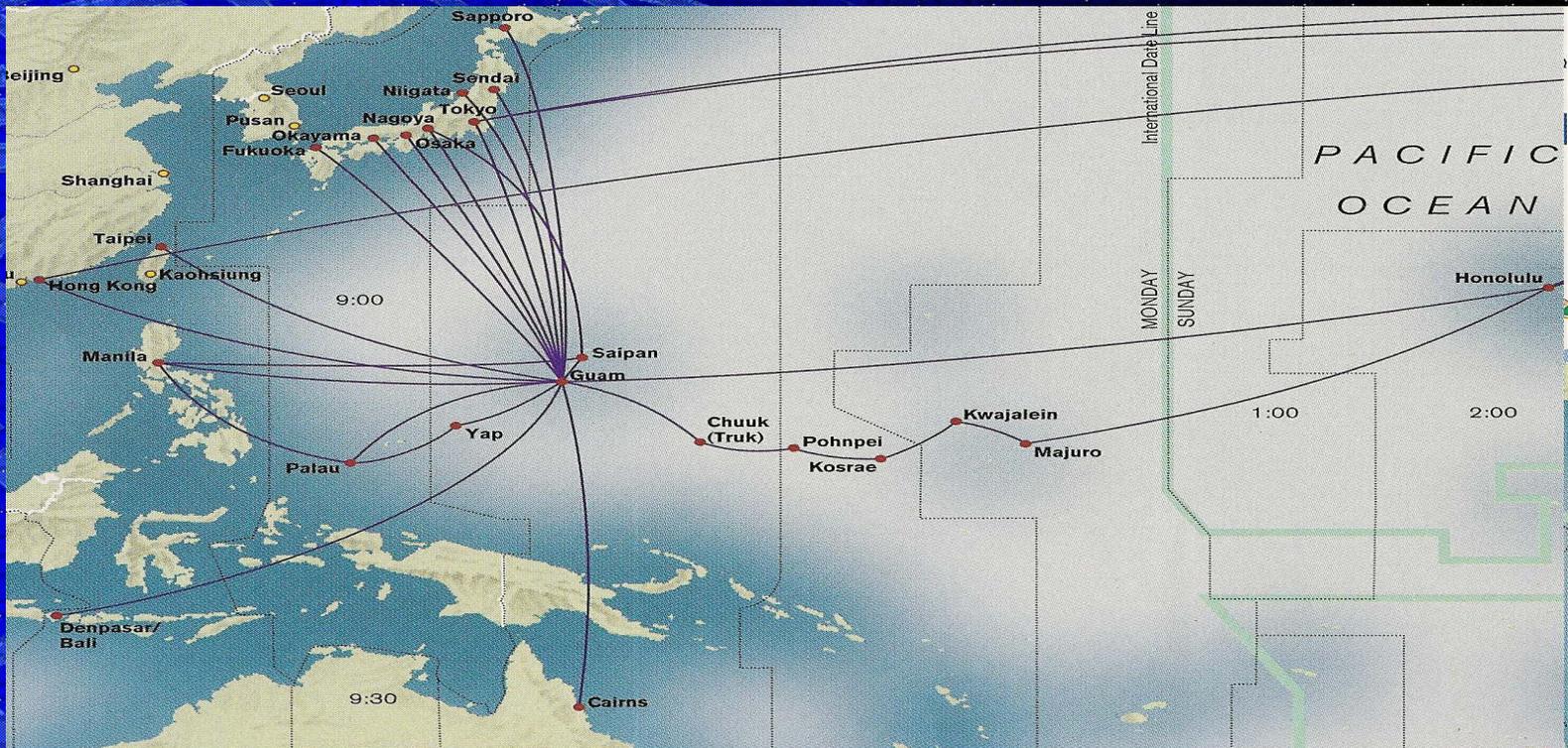


787 DREAMLINER™



# Route Structure

## Micronesia Area



# CMI Upgrades

- Winglets
- Iridium Satcom
- MMR installation/GLS
- Legacy Training
- FMC Visual Approaches



# CMI/CAL Operational Priorities

- Safety
- Comfort
- On time
- Efficiency

# 2007 Pacific Aviation Directors Workshop

## Industry Forum

Moderator, Captain Ralph Freeman  
Director, Flight Operations  
Continental Micronesia Airlines

# Mission Statement

A forum for the review of recent progress, challenges and plans for the future

# Current Operations & Plans

Issues

Feedback

# Asia Pacific Airlines

Robert Parker

Vice President of Operations

# Continental Micronesia

Art Day

Regional Manager

Airport Services

# The Boeing Company

Bradley W Bachtel  
Airport Technology  
Commercial Airplanes

# ASAP Report Summary

## ASAP Reports & other pilot concerns to ALPA

- Lack of Facility NOTAMS
- Bird strike Mitigation
- Poor night visual landing aids, runway striping, sineage, windsocks, ramp lighting
- Lack of basic upkeep; lights, wildlife, vegetation, FOD prevention
- Cell tower encroachments
- Others

# 2006 Conference Concerns

- NOTAMS
- KWA radar
- Weekly Field reports
- Wildlife hazards/bird strikes
- Grass over growth
- MAJ cell tower
- FOD
- 6000' runways

6000' OF RUNWAY

IS IT ENOUGH??

6000' of runway is  
adequate and safe  
according to Boeing  
performance charts

An extension to the island's  
5700' to 6000' runways  
would enhance safety for  
arriving and departing  
aircraft

# Normal Landing Distance

Flaps/40      Br/Mx Man      Vref/40

- Braking action
- NORM      3278      new, dry, clean
- GOOD      4618      island, dry, lt rain
- FAIR      6235      moderate rain
- POOR      8578      heavy rain

# Non-Normal Landing Distance

## One Engine Inop F1/15

- NORM 3300 new, dry, clean
- GOOD 4630 island, dry, lt rain
- FAIR 6650 moderate rain
- POOR 9110 heavy rain





So, what do you think

6000' of runway

IS IT ENOUGH??

# Micronesia's Future

# Setting the Pacific Stage

- Guam International Airport Runway Expansion
- US Military Buildup-Guam
- Continental 787 Delivery 2009
- Guam ARTCC facility
- Thailand-Viet Nam-Singapore-Australia-China-Micronesia

# Continental's Preparation

- New aircraft
- GLS Approaches
- RNAV/RNP
- FMC Visuals
- Satcom

# Micronesia Preparation

- Safe environment
- Part 139 airports/ICAO
- ARFF readiness
- Water recovery
- Island infrastructure/hospitals

# Five P's

- Prior Planning Prevents Poor Performance
- Pilot lingo
  - A poor approach results in a poor landing

What will your approach be for the future

Back by popular demand



THE **CAPTAIN**  
AS SEEN BY  
**PASSENGERS**



THE **CAPTAIN**  
AS SEEN BY  
**THE COPILOT**



THE **CAPTAIN**  
AS SEEN BY  
**THE FLIGHT ATTENDANT**



THE **CAPTAIN**  
AS SEEN BY  
**HIMSELF**



THE **CAPTAIN**  
AS SEEN BY  
**THE F.A.A.**



THE **CAPTAIN**  
AS SEEN BY  
**STATION AGENTS**



THE **CAPTAIN**  
AS SEEN BY  
**THE DISPATCHERS**



THE **CAPTAIN**  
AS SEEN BY  
**HIS WIFE**



THE **CAPTAIN**  
AS SEEN BY  
**MANAGEMENT AT CONTRACT TIME**