



To NDB Subcommittee **Date** June 12, 2014

From Sam Buckwalter **Reference** 14-999/SMA-836 klp
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Subject **Meeting Announcement**
Navigation Data Base (NDB) Subcommittee

Chairman Chuong Phung, FedEx

When October 21-23, 2014, from 0900 to 1700
Tuesday – Thursday

Where Meeting Location
Universal Avionics System Corporation
3260 E Universal Way
Tucson, AZ 85757

The meeting site is approximately a mile from the Tucson International Airport (TUS). Travel information is provided later in this announcement.

Security

Universal Avionics is a secure facility. Everyone will need to provide photo identification upon arrival. Additionally, to aid in getting everyone into the facility in a timely manner, please complete the "Visitor Information" section on the attached Visitor Request Form and provide it to Debbie Carnsew (*dcarnsew@uasc.com*) **in advance of the meeting.**

Please enter the facility using the Engineering Lobby, shown in the attached map.

Hotel There are several hotels in the vicinity of the Universal Avionics facility/Tucson airport. Two hotels have offered a Universal Avionics rate for the meeting: Staybridge Suites and Four Points by Sheraton. Additional information is attached.

Instruction Please notify ARINC Industry Activities of your intention to attend by registering online at:

<http://www.aviation-ia.com/events/>

Dress code for this meeting is business casual.

Comments or questions regarding any of the agenda items are invited. If you wish any material to be circulated prior to the meeting, please submit your proposals via e-mail to Sam Buckwalter by October 1, 2014. After this date, late materials may not be available for review prior to the meeting; they may only be introduced on the agenda with the approval of the chairman and formal consensus of the group.

The meeting is open to all interested parties. Individuals requesting time on the agenda should contact Sam Buckwalter. The agenda will be finalized one week prior to the meeting.

Meeting Objectives

NDB Subcommittee

The NDB Subcommittee will review proposals for incorporation into the Navigation Data Base Standard, draft Supplement 21 to ARINC Specification 424 or ARINC Project Paper 424A.

Some of the issues to be addressed are:

1. Status of the ARINC 424A Modeling Activity.
2. Navtech to provide an amended Table 5-17, Navaid Table for Procedure Use.
3. Jeppesen to provide an update to Procedure Design Mag Var Indicator RNAV procedures only along with VOR/DME RNAV procedures. It needs to be expanded to include conventional procedures.
4. BAE to provide a formal proposal to support Waypoint and Enroute Airway Descriptor Codes Identifying Free Route Airspace.
5. CMC to provide an updated proposal for PinS.
6. Lufthansa Navigation services accepted the action based on the group's discussion to review and update the use of ILS versus localizer in Section 5.80 and other related sections.
7. Jeppesen to present a proposal in Recommended Navaid Distance Rules.
8. The FMS vendors accepted the action to provide feedback regarding what they do with the turn direction on legs following a VM/FM leg.
9. Jeppesen to provide results of their discussion with German DFS regarding waypoints that are not part of the ARINC 424 approach sequence.
10. Jeppesen to provide a proposal on Published Missed Approach Point Overfly.
11. Document Convention Discussion Papers to be provided by data suppliers, data users, and data integrators.
12. Universal Avionics to provide a Working Paper or Discussion Paper on Level of Service Flag.
13. AeroNavData to present a proposal to split the helipad data from the heliport data to the PinS Working Group.
14. Thales to provide a formal proposal on Leg sequencing before and IF leg.
15. Lufthansa Navigation Services to provide an updated Clarification to Note 1 to the Leg Data Field Table.

**Travel
Information**

The meeting site is approximately one mile from the Tucson Intl Apt (TUS) and approximately 120 miles (driving time just under 2 hours) from Phoenix Sky Harbor Intl Apt (PHX). See attached map for reference.

Several of the area hotels have shuttle service, so a car is not required. However, there are limited restaurant choices in the airport area (mostly fast food, and a couple hotel restaurants), so keep this in mind when making your plans.

cc

NDB

Directions to Universal Avionics:

From Tucson International Airport:

- Exit Tucson International Airport onto S. Tucson Blvd. heading north.
- Turn right onto E. Valencia Rd.
- Turn right onto Lisa Frank Dr.
- Turn right onto E. Medina Rd.
- Turn right into the Universal Avionics south parking lot.
- Turn left toward the Engineering entrance on the southwest side of the building.

From Phoenix area or downtown Tucson:

- Travel east on I-10, take exit 264A for S. Palo Verde Rd.
- **Note:** To avoid making a left turn across traffic, continue on Palo Verde across Valencia Rd.
- Turn right onto E Media Rd.
- Turn right into the Universal Avionics south parking lot.
- Turn left toward the Engineering entrance on the southwest side of the building.



Hotel Information:

Hotels offering a discount:

Staybridge Suites Tucson Airport

2705 E. Executive Drive, Tucson, AZ 85756

520-807-1004

<http://www.staybridge.com/hotels/us/en/tucson/tussb/hoteldetail>

Government rate of \$86 is offered to all Universal Avionics guests

This rate is for our studio suite, which has a queen sized bed, 42" flat panel TV, large work desk and a small, fully-stocked kitchen. One-bedroom suites are an additional \$10.00 The rate also includes a full hot breakfast buffet each morning, and a full dinner with beer and wine on Tues, Wed and Thursday from 5:30-7:30PM - also free wifi throughout the property.

Four Points by Sheraton Tucson Airport

7060 S Tucson Blvd, Tucson, Arizona 85756

520-746-0271

<http://www.Fourpoints.com/TucsonAirport>

Universal Avionics rate: \$89.00

Government Rate: \$86.00

Includes breakfast.

Free airport shuttle service

Airport area hotels:

This is not a complete list.

This is a sampling of hotels for which the web site specifically mentioned shuttle services.

All are within 1 mile of Universal Avionics.

Hilton Garden Inn Tucson Airport

6575 South Country Club Road, Tucson, Arizona 85756

520-741-0505

<http://hiltongardeninn3.hilton.com/en/hotels/arizona/hilton-garden-inn-tucson-airport-TUCAPGI/index.html>

Across the street from Universal Avionics

Offers complimentary shuttle service to anywhere within five miles of the hotel

TownePlace Suites Tucson Airport

6595 South Bay Colony Drive, Tucson, Arizona 85756

520-294-6677

<http://www.marriott.com/hotels/travel/tusta-towneplace-suites-tucson-airport/>

This is the next closest, just over 1/2 mile from Universal Avionics

Airport shuttle service, on request, complimentary

Residence Inn Tucson Airport

2660 East Medina Road, Tucson Arizona 85756-7137

520-294-5522

<http://www.marriott.com/hotels/travel/tusap-residence-inn-tucson-airport/>

Offers free shuttle to the airport or anywhere else within five miles

Courtyard Tucson Airport

2505 East Executive Drive Tucson Arizona 85756

520-573-0000

<http://www.marriott.com/hotels/travel/tusca-courtyard-tucson-airport/>

Free shuttle ride to and from the airport

Hyatt Place Tucson Airport

6885 South Tucson Boulevard, Tucson, Arizona, USA, 85756

520-295-0405

<http://tucsonairport.place.hyatt.com/en/hotel/home.html>

Complimentary hotel shuttle service to and from Tucson International Airport as well as within a 5-mile radius of the hotel; subject to availability

Hotels with a short commute:

These are closer to some shopping/dining areas of town

Not a complete list of hotels in the Reid Park/Williams Center area

Approximately 10-15 minutes from Universal Avionics

DoubleTree by Hilton Hotel Tucson - Reid Park

445 S. Alvernon Way, Tucson, Arizona, 85711-4198

520-881-4200

<http://doubletree3.hilton.com/en/hotels/arizona/doubletree-by-hilton-hotel-tucson-reid-park-TUSBTDT/index.html>

Complimentary shuttle to attractions within a 3-mile radius of the hotel

(no mention of airport shuttle, airport is 7 miles from hotel)

TownePlace Suites Tucson Williams Centre

384 South Williams Blvd, Tucson, AZ 85711

520-747-0720

<http://www.marriott.com/hotels/travel/tuswc-towneplace-suites-tucson-williams-centre/>

This hotel does not provide shuttle service

Courtyard Tucson Williams Centre

201 South Williams Boulevard, Tucson Arizona 85711

520-745-6000

<http://www.marriott.com/hotels/travel/tusce-courtyard-tucson-williams-centre/>

This hotel does not provide shuttle service

Embassy Suites Tucson Williams Center

5335 East Broadway, Tucson, Arizona, 85711

520-745-2700

<http://embassysuites3.hilton.com/en/hotels/arizona/embassy-suites-tucson-williams-center-TUSBWES/index.html>

Complimentary shuttle service within a 5-mile radius

(no mention of airport shuttle, airport is 10 miles from hotel)

Lodge on the Desert

306 North Alvernon Way, Tucson, Arizona 85711-2855

520-320-2000

LodgeOnTheDesert.com



VISITOR REQUEST FORM

Facility:	<input checked="" type="checkbox"/> Tucson <input type="checkbox"/> Redmond <input type="checkbox"/> Wichita <input type="checkbox"/> Duluth		
Date of Visit:	Oct 21-23, 2014	Type of Visit:	<input type="checkbox"/> Commercial <input type="checkbox"/> Training <input type="checkbox"/> Government <input checked="" type="checkbox"/> Other
Visit Frequency:	<input checked="" type="checkbox"/> One Time <input type="checkbox"/> Recurring	Host Name:	Database Engineering Department
Subject to be discussed or reason for visit.	AEEC Navigation Data Base (NDB) Subcommittee meeting		
Level of information to be discussed: <input type="checkbox"/> Confidential <input type="checkbox"/> Restricted <input checked="" type="checkbox"/> General			

VISITOR INFORMATION

Name:			
Company:		Title:	
Countries of Citizenship:			
INFORMATION BELOW REQUIRED FOR U.S. CITIZENS			
Driver's License Number:		State:	
INFORMATION BELOW REQUIRED FOR NON-U.S. CITIZENS			
Passport Number:			

EXPORT CONTROL INFORMATION

TO BE COMPLETED BY UASC HOST	
Plant Tour Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Will technical data and/or information be discussed or exchanged: Not specific to Universal Avionics products. Industry-wide technical committee related to ARINC 424 database formats.	
Will Foreign person have access to hardware or software? No	
TO BE COMPLETED BY COMPANY'S EXPORT OFFICER (INTERNAL USE)	
Export License Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	License/TAA number:
Restrictions, Limitations, or Provisos:	

Reception

Mk Denial Checked _____ Yes _____ No Date Checked _____