Implementation of Multiple Approach Procedure Indicators

November 11, 2005

Beginning in ARINC cycle 0603, Jeppesen will begin extracting Multiple Approach Indicators in the Approach Route Identifier in PF Records for multiple RNAV (GPS) procedures coded to the same runway. Eventually, we will begin extracting Multiple Indicators for all other multiple procedure types coded to the same runway. This document serves as the contractually required advanced notification for implementation of the new coding rules and practices scheduled for implementation in ARINC cycle 0603, effective date 16 March 2006.

BACKGROUND

Jeppesen receives source for multiple approach procedures of the same procedure type to the same runway from all over the world. The multiple approach characters can be either alpha or numeric and, according to ARINC, apply to the fifth character of the procedure ident that Jeppesen outputs. Due to current limitations, when the same procedures types to the same runway are received only one of the procedures is captured in the database and that procedure does not contain the multicode character. On RNAV (GPS) procedures in the United States, this has caused the corresponding uncoded procedure(s) to be labeled with a “Procedure Not in Database” note on the charted procedure (see next page for example).

The FAA has mandated that all published RNAV (GPS) procedures must have a coded procedure in the database, since the database is required to fly the procedure. In order to comply with this mandate, Jeppesen will begin extracting same Procedure Types to the same runway using source supplied Multiple Approach Indicator codes in the Procedure Identifier on PF records as outlined in ARINC 424, supplement 17, Field Definition 5.10, Approach Route Identifier (APPROACH IDENT).

For customers whose equipment is not updated to receive multiple approach indicator information, this may result in packing program failures or approach procedures being removed from your database. However, Jeppesen has implemented alternate Multiple Approach Data Delivery options. To learn more about these options, please contact the Jeppesen NavData Technical Support at phone (USA) 303-328-4445, e-mail navdatatechsupport@jeppesen.com, or fax (USA) 303-328-4122.
**SUMMARY**
The release will occur in a Two Phase implementation process.

**Phase 1**, beginning in ARINC cycle 0603:
- Multiple Approach Indicators will begin extracting in FAA RNAV (GPS) approaches only.
- FAA RNAV (GPS) approaches will begin to be coded with multiple code indicators where designated by source.
- No multiple approach indicators will be created by Jepp.

**Phase 2**, ARINC cycle to be determined by Jeppesen based on industry demand and response to the Phase 1 release:
- Multiple Approach Indicators will begin extracting in all other non-FAA RNAV (GPS) and worldwide non-RNAV (GPS) procedures with source designated multiple codes.
  (i.e. two VOR/DME procedures to Rwy 12, two NDB procedures coded to Rwy 36, etc.)
- Only procedures with a source specified multiple-code will be coded. Multiple Approach Indicators that include whole words such as Alpha, Bravo, and Charlie will be truncated by Jeppesen into “A”, “B” and “C”, respectively.
- No multiple indicators will be created by Jepp.

**Case Example**
Chicago, Illinois (O’Hare International)
RNAV (GPS) Z & Y Procedures Rwy 22L

Currently, there are two RNAV (GPS) Rwy 22L procedures @KORD. To distinguish between them, they each contain a unique multiple indicator code, which is supplied by source.

Since multiple approach indicators are not currently extractable, only one procedure is entered. In this case, the Z procedure is coded and the Y procedure is left off the database. Therefore, the Y procedure is labeled with a “Procedure Not in Database” note.

Once the Y procedure is entered, the “Procedure Not in Database” note will be removed from the Chart.

Based on ARINC 424, supplement 17, Field Definition 5.10, Approach Route Identifier (APPROACH IDENT), Jeppesen will begin extracting a –(dash) in the 4th character, when no L,R,C or T exist, and a Multiple Approach Indicator in the 5th character of the Procedure Ident field of PF records.

Below is an example of how the ARINC output would appear for one sequence on the final approach segment. The multiple approach indicators are hi-lighted in red bold type:

**RNAV (GPS) Z Rwy 22L:**
SUSAP KORDK5FR22LZ R 010CEBIBK5PC0E I IF 03000 18000 R 654690402

**RNAV (GPS) Y Rwy 22L:**
SUSAP KORDK5FR22LY R 010CEBIBK5PC0E I IF 03000 18000 R 654690402
Multiple Approach Indicator Procedures will be referenced when they exist in your Company Routes records regardless of whether or not you choose to receive them in your Terminal Procedure (PF) records.

To accept Multiple Approach Procedures in your NavData file, please make the necessary adjustments to your NavData processing systems to accept this new value by 27 February 2006 to be prepared for the changes in update cycle 0603.

If you have questions about this notice, please contact Jeppesen NavData Technical Support at phone (USA) 303-328-4445, e-mail navdatatechsupport@jeppesen.com, or fax (USA) 303-328-4122.