

AERONAUTICAL CHARTING MEETING
Charting Group
Meeting – October 23 - 24, 2019

RECOMMENDATION DOCUMENT

FAA Control #19-02-338

Subject: Publish DP (SID/ODP) and STAR Chart Notes in Machine Readable Form

Background/Discussion:

We are looking for a published machine readable source for the notes that appear on DP (SID and Graphical ODP) and STAR procedures. This would help provide the notes to a pilot when they are reviewing a procedure on a map or determining the applicability of a procedure when selecting the procedure. This is not intended to replace the requirement that the pilot have the chart available, but as an easy to access reminder of limitations or selection of a procedure before the chart is viewed.

In an analogous situation, airport Text notes are published in NASR data for airports. This makes it easy to take advantage of this data source and deliver information to pilots using an EFB. For example the new Clearance Delivery (CD) phone numbers are published in these notes. This provided a means of being able to obtain phone numbers for CD at thousands of private airports that do not have a Chart Supplement entry (aka AFD).

There are similar types of notes that are printed in the graphic DP and STAR procedure charts, but there isn't a data source for these notes. With an EFB, the chart may not be displayed at all times, particularly during the selection process or when the chart is not geo-referenced to be overlaid onto a map. Knowing the content of the notes is an important part of the procedure selection process and also bears on how the procedure should be filed. For example, the note might state something like: Assigned by ATC or limits the procedure to a specific type of aircraft with specific performance criteria.

As an example, I have attached two SIDs for Rock Hill, SC KUZA, the KILNS4 RNAV procedure and the KNI2 procedure.

These are the notes from the KILNS4 DP

NOTE: For turbojets only.

NOTE: DME/DME/IRU or GPS required

NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: Transponder code will be issued via PDC or Charlotte CLNC DEL

NOTE: Upon reaching 10000 MSL, accelerate to and maintain 280K,
if unable advise ATC.

NOTE: If unable to accept climb rates, advise ATC on initial contact.

These are the notes from the KNI2 DP:

NOTE: For propeller aircraft only.

NOTE: RADAR and DME required

NOTE: Turboprops: Operate in a manner that will
result in best forward speed and climb rate.

NOTE: Transponder code will be issued via

Charlotte clearance delivery.

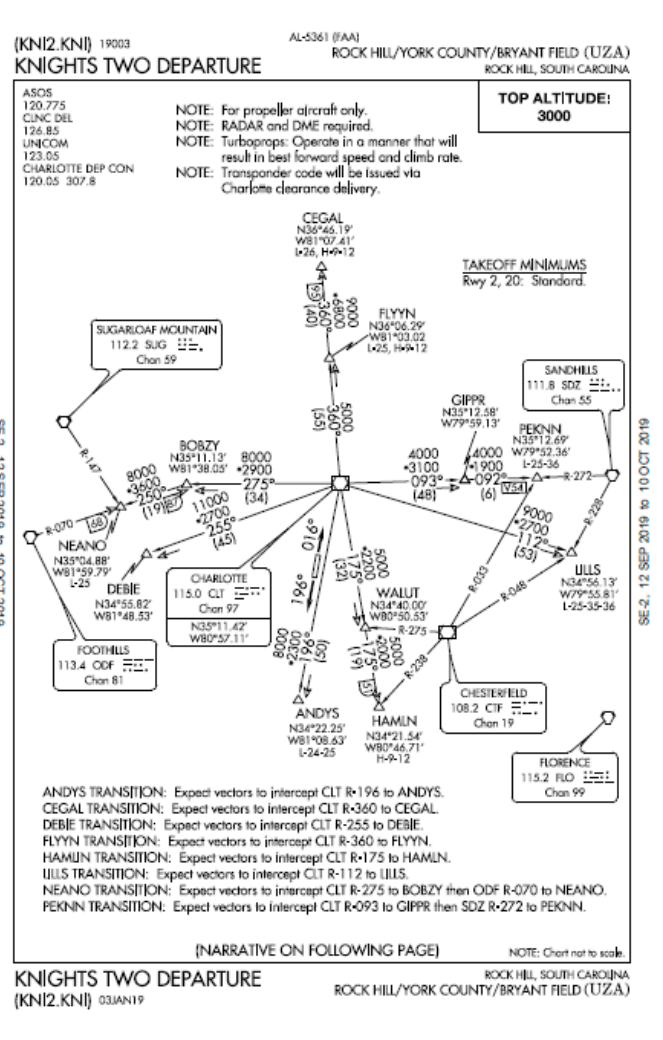
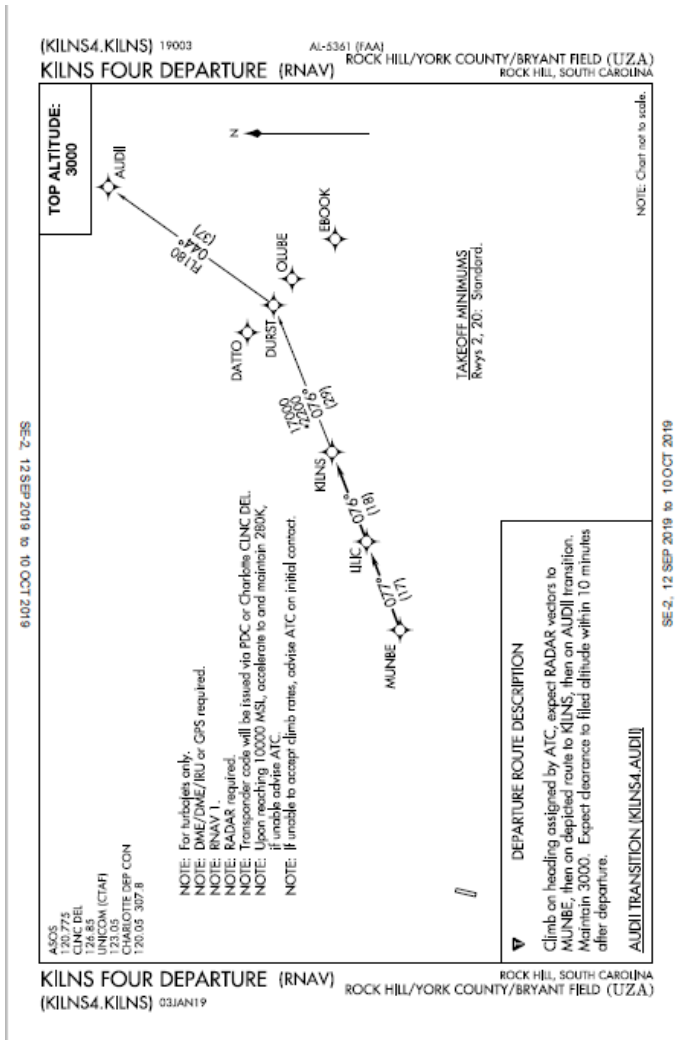
See attached charts

Recommendations:

Publish a machine readable source that include the text of the notes for all DP and STAR procedures including SID and ODP using both conventional and RNAV Nav aids.

Comments:

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Date: Sept 27, 2019



MEETING 19-02

John Collins, ForeFlight, briefed the new item. John recommended that the notes that appear on Departure Procedures (DPs) and Standard Terminal Arrival (STAR) charts be published in a machine-readable format. He stated this would allow 3rd party vendors the capability to supply the notes in an Electronic Flight Bag (EFB) so pilots can more easily filter available procedures based on aircraft type and equipment requirements. John showed an example of the KILNS FOUR DEPARTURE, highlighting the notes that are not machine-readable. He noted that some charts specify that the procedure is designed for use by a specific category of aircraft, e.g., For turbojets only.

Rich Boll, NBAA, commented that there are also many DPs and STARs that are assigned by ATC only and there is currently no way to filter out those procedures. He said that having the notes easily assessable would be useful for flight planning purposes.

Scott Jerdan, FAA/AJV-A310, stated that automation has not yet been built to produce electronic procedure source forms for DPs and STARs in the way it has been done for Instrument Approach Procedures (IAPs). The FAA is currently working toward that goal, but it is going to be some time before it will be accomplished. Digital notes will not be possible until the source forms are fully electronic. Valerie Watson, FAA/AJV-A250, stated that, in the meantime, pilots will need to continue to refer to the published chart for the notes.

Aaron Jacobson, Jeppesen, commented that it is difficult to define the logic for notes. Having a note in a digital format is one thing, but defining the metadata for what kind of note is more difficult.

John asked what the timeline is for the FAA to provide the notes electronically. Brian Murphy, FAA/AJV-A350, said that there is no timeline yet available, but unfortunately he does not anticipate they will be available soon. Dave Teffeteller, FAA/AJV-A433, suggested that this issue be left open and he could take the action to investigate the FAA's plan for making the source available digitally.

STATUS: OPEN

ACTION: Dave Teffeteller, FAA/AJV-A433, will investigate the FAA's timeline for digital procedure source forms for DPs and STARs.

MEETING 20-02

Samer Massarueh, FAA/AJV-A221, reviewed the issue. Pat Mulqueen, FAA/AJV-A440, reported that the FAA will not be able to provide digital procedure source forms for Departure Procedures (DPs) and Standard Terminal Arrival Charts (STARs) in the near future. He said this goal is attainable, but it has not been given a high priority. John Collins, ForeFlight, restated the value this would add for pilots if 3rd party vendors had the capability to supply procedural notes in Electronic Flight Bag (EFB) so pilots can more easily filter available procedures based on aircraft type and equipment requirements. Pat said perhaps he misunderstood the request and he will coordinate with John Collins to better understand his request and will then will take it back and investigate it further with his automation team.

STATUS: OPEN

ACTION: Pat Mulqueen, FAA/AJV-A440, will research original request and investigate whether the FAA can support the provision of electronic DP and STAR chart notes.

MEETING 21-01

Samer Massarueh, FAA/AJV-A223, reviewed the issue. Pat Mulqueen, FAA/AJV-A440, reported that the FAA is working toward implementing digital procedure source forms for Departure Procedures (DPs), Standard Terminal Arrival Charts (STARs), and Obstacle Departure Procedures (ODPs). He said they expect to start with DPs in February 2022. The target date to have everything available digitally is June 2024. John Collins, ForeFlight, asked if he could get a copy of the implementation plan. Pat said he will provide that. There was agreement to close this item.

STATUS: CLOSED