AERONAUTICAL CHARTING MEETING
Charting Group
Meeting – October 28 - 29, 2020

RECOMMENDATION DOCUMENT

FAA Control #20-02-348

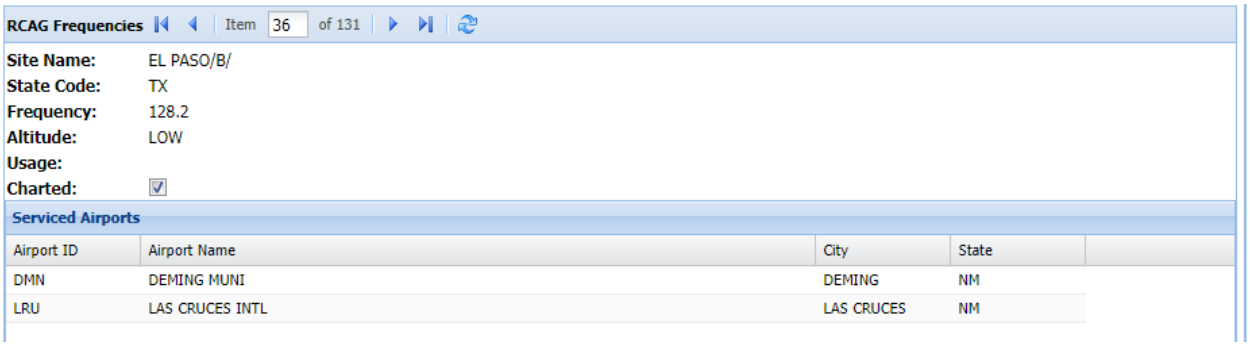
Subject: NASR Improvements to Handle ARTCC/RCAG Frequencies

Background/Discussion:

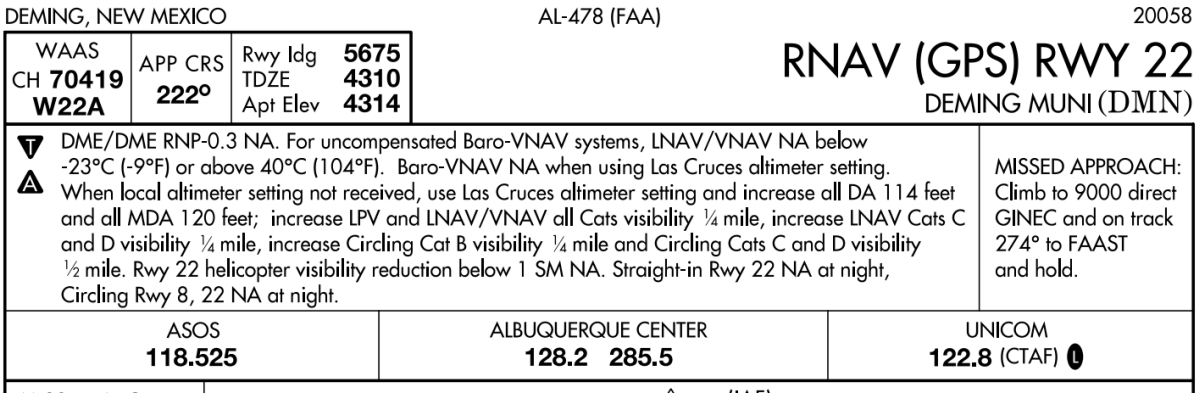
NASR features a resource called Air Route Traffic Control Center, which stores all ARTCC frequencies in the NAS. IFR terminal procedure (SID/STAR/IAP) charts occasionally list these frequencies in the header when an ARTCC provides approach and departure service at that airport. There is currently a substantial completeness issue where the data attribution of charted CENTER (ARTCC) frequencies in NASR is incomplete, which prevents database suppliers from including these frequencies in ARINC 424 PV (Airport Communication) records.

NASR's ARTCC resource is organized by RCAG (remote control air-ground) site. The names of each RCAG site are depicted on the "postage stamps" on IFR Enroute charts:

IFR Enroute charts include sectorization lines which provide clear links to these ARTCC frequencies. These, in turn, correspond with RCAG sites as depicted in eNASR:



"Serviced airports" are listed for some RGAC sites, and such links are indicative of frequency use by one or more IFR Terminal procedures at those airports.


DEMING, NEW MEXICO AL-478 (FAA) 20058

WAAS CH 70419 W22A | APP CRS 222° | Rwy Idg 5675 TDZE 4310 Apt Elev 4314

RNAV (GPS) RWY 22

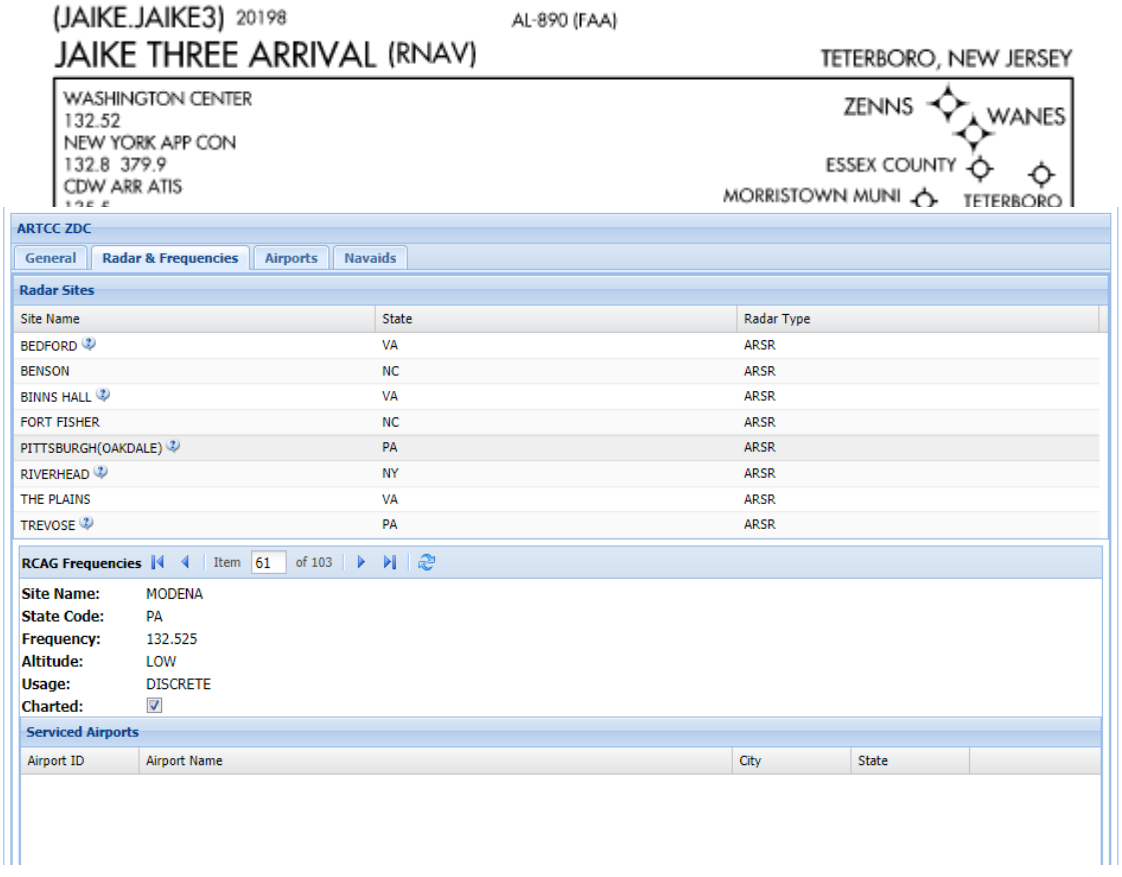
DEMING MUNI (DMN)

DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). Baro-VNAV NA when using Las Cruces altimeter setting. When local altimeter setting not received, use Las Cruces altimeter setting and increase all DA 114 feet and all MDA 120 feet; increase LPV and LNAV/VNAV all Cats visibility ¼ mile, increase LNAV Cats C and D visibility ¼ mile, increase Circling Cat B visibility ¼ mile and Circling Cats C and D visibility ½ mile. Rwy 22 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 22 NA at night, Circling Rwy 8, 22 NA at night.

MISSED APPROACH: Climb to 9000 direct GINEC and on track 274° to FAAST and hold.

ASOS 118.525 | ALBUQUERQUE CENTER 128.2 285.5 | UNICOM 122.8 (CTAF)

Provided such links are set consistently across all procedure types for all airports, each airport with charted CENTER/ARTCC frequencies should appear as a “Serviced Airport” under the RCAG site(s) that serves the airport. These links would enable ARINC 424 database suppliers to identify *all* relevant airport communication frequencies (as used on IFR Terminal procedures) and include them as coded PV records. This is currently not the case, however, and NASR omissions exist across almost all ARTCC facilities. It is entirely likely for an IFR Terminal procedure to chart an ARTCC frequency without its airport being listed as a “Serviced Airport” in the NASR Air Route Traffic Control Center resource.


(JAIKE.JAIKE3) 20198 AL-890 (FAA)

JAIKE THREE ARRIVAL (RNAV)

TETERBORO, NEW JERSEY

WASHINGTON CENTER
132.52
NEW YORK APP CON
132.8 379.9
CDW ARR ATIS

ZENNS WANES ESSEX COUNTY MORRISTOWN MUNI TETERBORO

ARTCC ZDC

General | Radar & Frequencies | Airports | Navaids

Radar Sites

Site Name	State	Radar Type
BEDFORD	VA	ARSR
BENSON	NC	ARSR
BINNS HALL	VA	ARSR
FORT FISHER	NC	ARSR
PITTSBURGH(OAKDALE)	PA	ARSR
RIVERHEAD	NY	ARSR
THE PLAINS	VA	ARSR
TREVOSE	PA	ARSR

RCAG Frequencies Item 61 of 103

Site Name: MODENA
State Code: PA
Frequency: 132.525
Altitude: LOW
Usage: DISCRETE
Charted: ☑

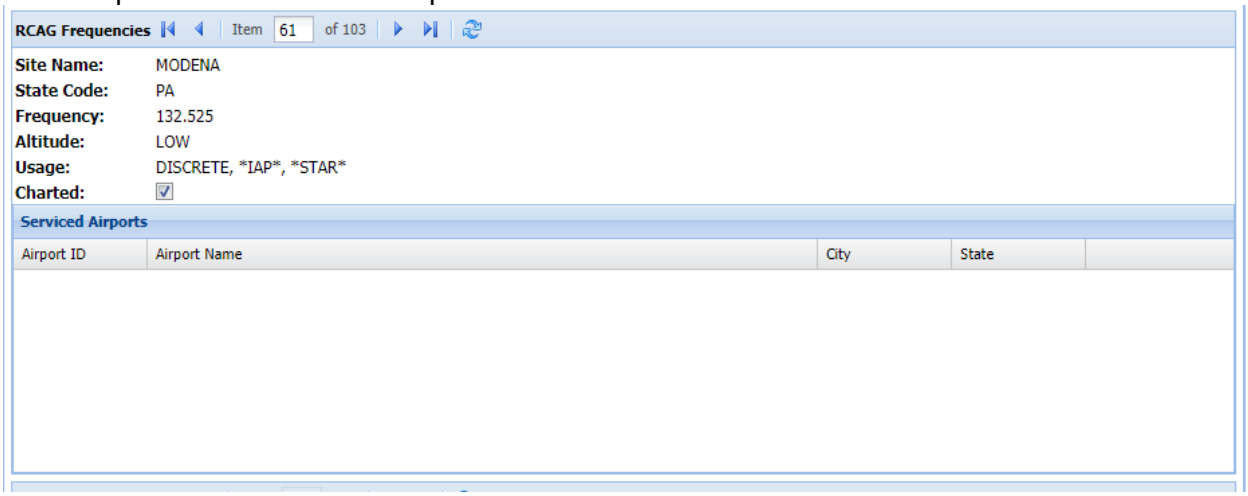
Serviced Airports

Airport ID	Airport Name	City	State

Recommendations:

Garmin recommends that a day-forward change be made to the processing and NASR storage of charted ARTCC frequencies on IFR terminal procedures. Each ARTCC frequency used or shown on such a procedure should trigger its respective airport to be listed as a "Serviced Airport" in NASR. This would enable the NASR database to more accurately reflect the uses of various ARTCC/RCAG frequencies, as well as enable ARINC 424 database suppliers to reference NASR when creating PV records for each airport. The result would be a complete set of PV records, to include each charted frequency regardless of type, for each airport served by a given procedure. The pictured example (JAIKE.JAIKE3) serves KTEB, KMMU, KCDW, KLDJ, KSMQ, and 47N. Without these 6 airports shown in NASR as Serviced Airports for the 132.525 RCAG frequency, database suppliers have no way of including 132.525 as a PV record at the airports.

In addition, the "Usage" field should also be populated to indicate these frequencies are used on terminal procedures. Potential implementations are shown below denoted with asterisks.



Comments:

Submitted by: Steven Madigan, Andrew Lewis
Organization: **Garmin International**
Phone: 913-440-6025
E-mail: Steven.Madigan@garmin.com, Andrew.Lewis@garmin.com
Date: 8/25/2020

Please send completed form and any attachments to:
Valerie.S.Watson@faa.gov and Jennifer.L.Hendi@faa.gov