

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet. MSL. Altitudes are minimum altitudes unless otherwise indicated.

Distances are in nautical miles (NM). Graphic depiction attached.

| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated | Effective Date |
|-------------------|------------|---------------------|-------------------|-------------------|--------------------|
| FRLON RNAV | TWO | FRLON.FRLON2 | ONE | 5 MAR 2015 | 21 JUL 2016 |

TRANSITION ROUTES:

| Transition Name | Transition Computer Codes | From FIX/NAVAID | To FIX/NAVAID | Mag Course | Distance | MEA | MOCA | MAA | Crossing Altitudes / Fixes |
|-----------------|---------------------------|-----------------|---------------|------------|----------|-------|------|-----|----------------------------|
| GGULF | GGULF.FRLON2 | GGULF | GGULF | | | | | | AT/ABOVE FL280 |
| | | | FRLON | 153.87 | 61.21 | 11000 | 5000 | | AT/ABOVE 13000 |

ARRIVAL ROUTE DESCRIPTION:

FROM FRLON ON TRACK 145.14/10.43 TO CROSS STLER AT 12000 AND AT 250 KIAS (MEA 8000/MOCA 2500), THEN ON TRACK 145.19/10.50 TO MNTNA (MEA 7000/MOCA 2500), THEN ON TRACK 104.85/7.87 TO CROSS MISSS AT 7000 (MEA 7000/MOCA 4200), THEN ON TRACK 104.83/10.92 TO CROSS PPEGs AT 5500 AND AT 210 KIAS (MEA 5500/MOCA 4700), THEN ON TRACK 140.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

FIXES AND/OR HOLDING PATTERNS:COMMUNICATIONS:

ATIS, ZOA, NORCAL APP CON, SAN JOSE TOWER, GND CON

AIRPORTS SERVED:

NORMAN Y MINETA SAN JOSE INTL, SAN JOSE, CA

LOST COMMUNICATIONS PROCEDURE:REMARKS:

DO NOT CHART MOCAS.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KSJC 13E/2020

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CHANGES:

1. MagVar change to from 16E to 13E. Magnetic tracks changed accordingly except for FM leg.
2. Reference NAVAID for FM leg changed from ELY to PSP.
3. 7100-3: True course for FM leg changed from 154.00 to 153.00.
4. Removed reference to R12 L/R in Arrival Route Description.

REASONS:

1. Western FPT request: 16E out of tolerance.
2. PSP has correct magnetic variation (13E).
3. ATC request to maintain internal magnetic variation consistency within the procedure while retaining 140 magnetic heading issued by controllers.
4. STAR terminates at end of the common route not a runway transition.

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STAR (DATA RECORD)

| | | | | | |
|--------------|--------|--------------------|-------------------|------------|----------------|
| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated | Effective Date |
| FRLON RNAV | TWO | FRLON.FRLON2 | ONE | 5 MAR 2015 | 21 JUL 2016 |

| FIX/NAVAID | LAT/LONG | C | FO/FB | LEG TYPE | TC | DIST (NM) | ALTITUDE | SPEED | REMARKS |
|----------------------------|--------------------------|---|-------|-------------|--------|--------------|----------------|---------|--------------------------------|
| En Route Transition | | | | | | | | | |
| GGULF | 385127.96N / 1230506.81W | Y | | IF | | | AT/ABOVE FL280 | | GGULF.FRLON2 |
| FRLON | 375146.35N / 1224733.43W | Y | FB | TF | 166.87 | 61.21 | AT/ABOVE 13000 | AT 280K | |
| Common Route | | | | | | | | | |
| FRLON | 375146.35N / 1224733.43W | Y | | IF | | | AT/ABOVE 13000 | AT 280K | FRLON.FRLON2 |
| STLER | 374204.91N / 1224239.83W | Y | FB | TF | 158.14 | 10.43 | AT 12000 | AT 250K | |
| MNTNA | 373219.49N / 1223745.63W | Y | FB | TF | 158.19 | 10.50 | | | |
| MISSS | 372838.24N / 1222901.01W | Y | FB | TF | 117.85 | 07.87 | AT 7000 | | |
| PPEGS | 372331.46N / 1221654.20W | Y | FO | TF | 117.83 | 10.92 | AT 5500 | AT 210K | |
| KSJC | | | | FM | 153.00 | | | | RECOMMENDED NAVAID: PSP VORTAC |

