

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
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 depictions attached.

| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated | Effective Date |
|---------------------|------------|---------------------|-------------------|-------------------|------------------|
| ZUUMA (RNAV) | TWO | ZUUMA.ZUUMA2 | ONE | 04/27/2017 | 01FEB2018 |

TRANSITION ROUTES:

| Transition Name | Transition Computer Codes | From FIX/NAVAID | To FIX/NAVAID | Mag Course | Distance | MEA | MOCA | MAA | Crossing Altitudes / Fixes |
|-----------------|---------------------------|-----------------|---------------|------------|----------|-------|------|-----|----------------------------|
| BURGL | BURGL.ZUUMA2 | BURGL | BURGL | | | | | | |
| | | | DOUIT | 136.33 | 26.52 | 17000 | 6600 | | |
| | | | UCANN | 132.40 | 28.02 | 17000 | 6800 | | AT/BELOW FL290 |
| | | | ALMST | 132.60 | 12.31 | 17000 | 6500 | | BETWEEN 17000 AND FL210 |
| | | | DANYY | 133.47 | 14.59 | 13000 | 9700 | | BETWEEN 13000 AND 17000 |
| | | | ZUUMA | 135.08 | 18.72 | 9000 | | | BETWEEN 9000 AND 11000 |
| REBRG | REBRG.ZUUMA2 | REBRG | REBRG | | | | | | |
| | | | STADD | 185.02 | 19.70 | 17000 | 2800 | | |
| | | | DOUIT | 179.23 | 23.09 | 17000 | 6600 | | |
| | | | UCANN | 132.40 | 28.02 | 17000 | 6800 | | AT/BELOW FL290 |
| | | | ALMST | 132.60 | 12.31 | 17000 | 6500 | | BETWEEN 17000 AND FL210 |
| | | | DANYY | 133.47 | 14.59 | 13000 | 9700 | | BETWEEN 13000 AND 17000 |
| | | | ZUUMA | 135.08 | 18.72 | 9000 | | | BETWEEN 9000 AND 11000 |

ARRIVAL ROUTE DESCRIPTION:

LANDING KLAX RWY 06R/L, 07R/L: FROM ZUUMA ON TRACK 141.86/16.38 TO CROSS WAKER AT 6000 AND AT 210 KIAS. EXPECT ILS OR LOC RWY 06L APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE

LANDING KSMO: FROM ZUUMA ON TRACK 141.86/16.38 TO CROSS WAKER AT 6000 AND AT 210 KIAS. EXPECT RNAV (GPS) RWY 3 APPROACH.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: TURBOJET AIRCRAFT ONLY

NOTE: ZUUMA STAR USED DURING LAX EAST TRAFFIC OPERATIONS AND NOISE ABATEMENT CONFIGURATION 0000-0630 LCL.

NOTE: LAX TRAFFIC EXPECT RWY 6L UNLESS OTHERWISE ASSIGNED.

NOTE: IF UNABLE TO MEET SPEED RESTRICTION AT ALMST, ADVISE ATC ON INITIAL CONTACT.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT ALMST: HOLD NW, RT, 132.60 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

SOCAL APP CON, LOS ANGELES ATIS, LOS ANGELES TOWER (N/S), SANTA MONICA ATIS, SANTA MONICA TOWER.

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| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated | Effective Date |
|---------------------|------------|---------------------|-------------------|-------------------|------------------|
| ZUUMA (RNAV) | TWO | ZUUMA.ZUUMA2 | ONE | 04/27/2017 | 01FEB2018 |

AIRPORTS SERVED:

LOS ANGELES INTL, LOS ANGELES, CA.
SANTA MONICA MUNI, SANTA MONICA, CA.

LOST COMMUNICATIONS PROCEDURE:

IN THE EVENT OF LOST COMMUNICATION: LANDING KLAX: PROCEED ON THE RNAV (RNP) Z RWY 6L APPROACH. LANDING KSMO: PROCEED ON THE RNAV (GPS) RWY 3 APPROACH.

REMARKS:

THIS AMENDMENT DOES NOT QUALIFY AS A PERIODIC REVIEW.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
REFERENCE MAGNETIC VARIATION = KLAX 12E/2020
DO NOT CHART MOCAS.

FLIGHT INSPECTED BY:

FLIGHT INSPECTION NOT REQUIRED, ROBERT STUCKERT, MANAGER

Name

AJW-331

Organization

Digitally signed by
CASIMIR L TABAKA
Oct 18, 2017

2/14/2017

Date

Signature

DEVELOPED BY:

Robert E. Henry - FAA Lead
Jose Gonzalez - NATCA Co-Lead

Name

Digitally signed by
CASIMIR L TABAKA
Oct 18, 2017

Southern California Metroplex

Organization

09/07/2017

Date

Signature

APPROVED BY:

MARLON J. ROBINSON, MANAGER

Name

AJV-5440

Organization

Digitally signed by
CASIMIR L TABAKA
Oct 18, 2017

Date

Signature

CHANGES:

CHANGED: from NOTE: TURBOJETS AND TURBOPROPS ONLY to NOTE: TURBOJET AIRCRAFT ONLY

CHANGED: from NOTE: ZUUMA STAR IS FOR LOS ANGELES LANDING EAST TRAFFIC ONLY to
NOTE: ZUUMA STAR USED DURING LAX EAST TRAFFIC OPERATIONS AND NOISE ABATEMENT CONFIGURATION 0000-0630 LCL

REASONS:

TO REFLECT ACTUAL USE OF THE ZUUMA STAR

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated | Effective Date |
|--------------|--------|--------------------|-------------------|------------|----------------|
| ZUUMA (RNAV) | TWO | ZUUMA.ZUUMA2 | ONE | 04/27/2017 | 01FEB2018 |

| FIX/NAVAID | LAT/LONG | C | FO/FB | LEG TYPE | TC | DIST (NM) | ALTITUDE | SPEED | REMARKS |
|---|--------------------------|---|-------|----------|--------|-----------|----------------|---------|--------------|
| En Route Transition | | | | | | | | | |
| BURGL | 353957.68N / 1200627.86W | Y | | IF | | | | | BURGL.ZUUMA2 |
| DOUIT | 351719.89N / 1194927.26W | Y | FB | TF | 148.33 | 26.52 | | | |
| UCANN | 345429.21N / 1192937.51W | Y | FB | TF | 144.40 | 28.02 | AT/BELOW FL290 | | |
| ALMST | 344425.77N / 1192058.30W | Y | FB | TF | 144.60 | 12.31 | 17000BFL210 | AT 280K | |
| DANYY | 343223.00N / 1191057.56W | Y | FB | TF | 145.47 | 14.59 | 13000B17000 | | |
| ZUUMA | 341637.95N / 1185840.98W | Y | FB | TF | 147.08 | 18.72 | 9000B11000 | | |
| En Route Transition | | | | | | | | | |
| REBRG | 355853.00N / 1193653.00W | Y | | IF | | | | | REBRG.ZUUMA2 |
| STADD | 354000.93N / 1194357.63W | Y | FB | TF | 197.02 | 19.70 | | | |
| DOUIT | 351719.89N / 1194927.26W | Y | FB | TF | 191.23 | 23.09 | | | |
| UCANN | 345429.21N / 1192937.51W | Y | FB | TF | 144.40 | 28.02 | AT/BELOW FL290 | | |
| ALMST | 344425.77N / 1192058.30W | Y | FB | TF | 144.60 | 12.31 | 17000BFL210 | AT 280K | |
| DANYY | 343223.00N / 1191057.56W | Y | FB | TF | 145.47 | 14.59 | 13000B17000 | | |
| ZUUMA | 341637.95N / 1185840.98W | Y | FB | TF | 147.08 | 18.72 | 9000B11000 | | |
| Common Route | | | | | | | | | |
| ZUUMA | 341637.95N / 1185840.98W | Y | | IF | | | 9000B11000 | | ZUUMA.ZUUMA2 |
| WAKER | 340153.80N / 1185000.06W | Y | FB | TF | 153.86 | 16.38 | AT 6000 | AT 210K | |
| KSMO | | | | | | | | | |
| Runway Transition | | | | | | | | | |
| ZUUMA | 341637.95N / 1185840.98W | Y | | IF | | | 9000B11000 | | |
| WAKER | 340153.80N / 1185000.06W | Y | FB | TF | 153.86 | 16.38 | AT 6000 | AT 210K | |
| KLAX:RWY 06L,RWY 06R,RWY 07L,RWY 07R | | | | | | | | | |