Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 12/12/2011	Task #: 2008041414764711006	Request #: 20080414147647
Procedure: STAR BUGGZ (RNAV) TWO ORLANDO FL KMCO		Airport ID: KMCO	Airport: ORLANDO INTL		Reimbursable #:
City: ORLANDO	ST: FL	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type: Proc TC	Specialist: WES COMBS(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/08/2012	06/19/2012	STEVEN SZUKALA	
QA:	06/19/2012	06/19/2012	STEVEN SZUKALA	
Liaison:	06/19/2012		Alfonso	

Procedure Comments: ENROUTE **Remark Type:** INFORMATION Pg 2 of 6

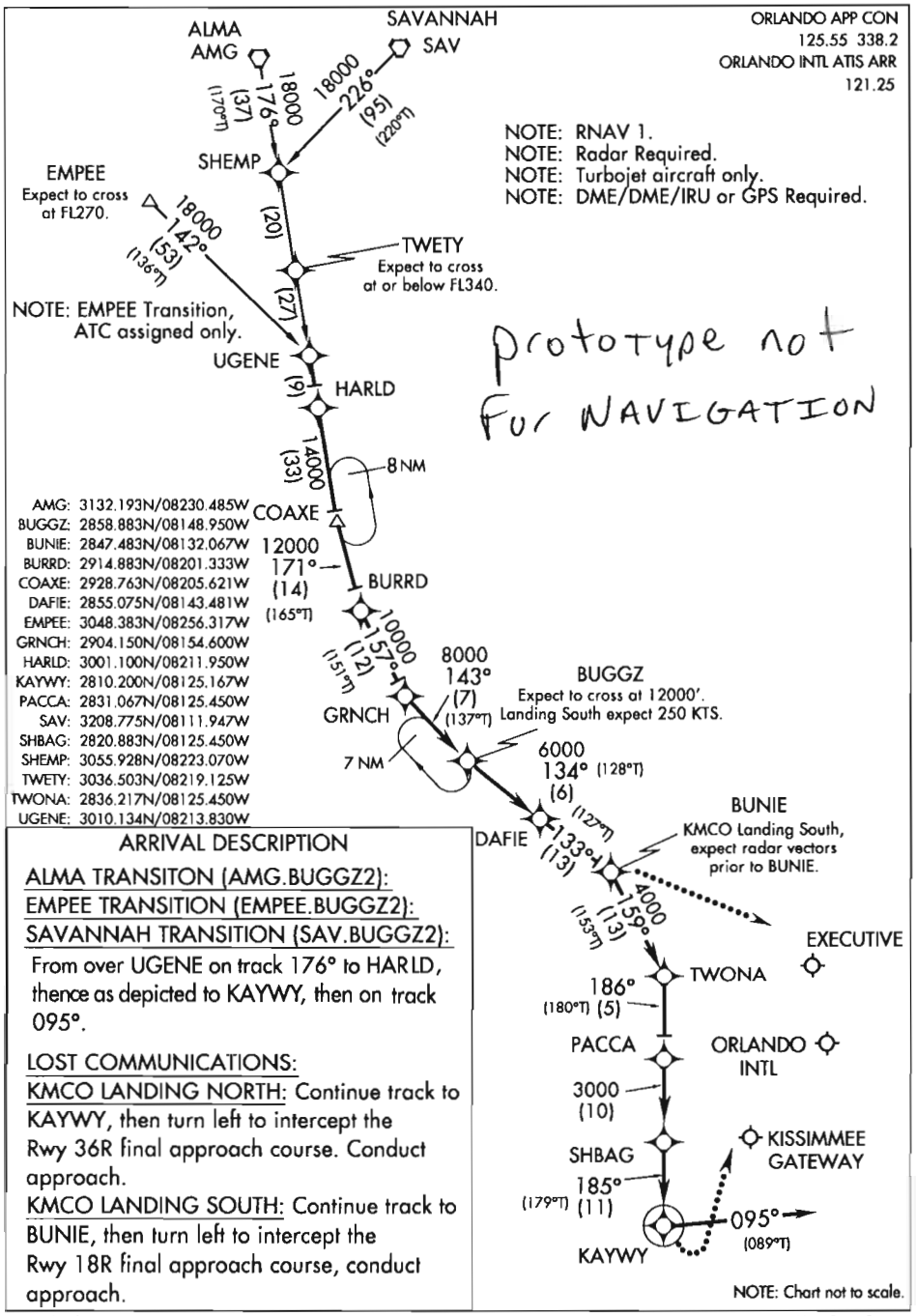
ORLANDO, FL ORLANDO INTL (KMCO) BUGGZ TWO (STAR) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

ATTACHED FORMS: 7100-4; 7100-3; 8260-2(S): ALMA (AMG) VTAC, REV 17; BUGGZ, REV 1; BUNIE, REV 1; BURRD, REV 1; COAXE-INT, REV 7; DAFIE, REV 1; EMPEE, REV 2; GRNCH, REV 1; HARLD, REV 1; SHEMP-INT, REV 4; TWETY, REV 1; UGENE-INT, REV 4; (INFO ONLY) KAYWY, REV 1; PACCA, REV 1; SAVANNAH (SAV) VTAC, REV 4; SHBAG, REV 1; TWONA, REV 1.
FLCK NOTE: REQUEST 4D ACCURACY VERIFICATION OF 567 MSL TOWER 13-004179, 304822.80N/0830020.50W.
CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

(BUGGZ.BUGGZ2) FIG ST-571 (FAA)

BUGGZ TWO ARRIVAL (RNAV)

ORLANDO INTL
ORLANDO, FLORIDA



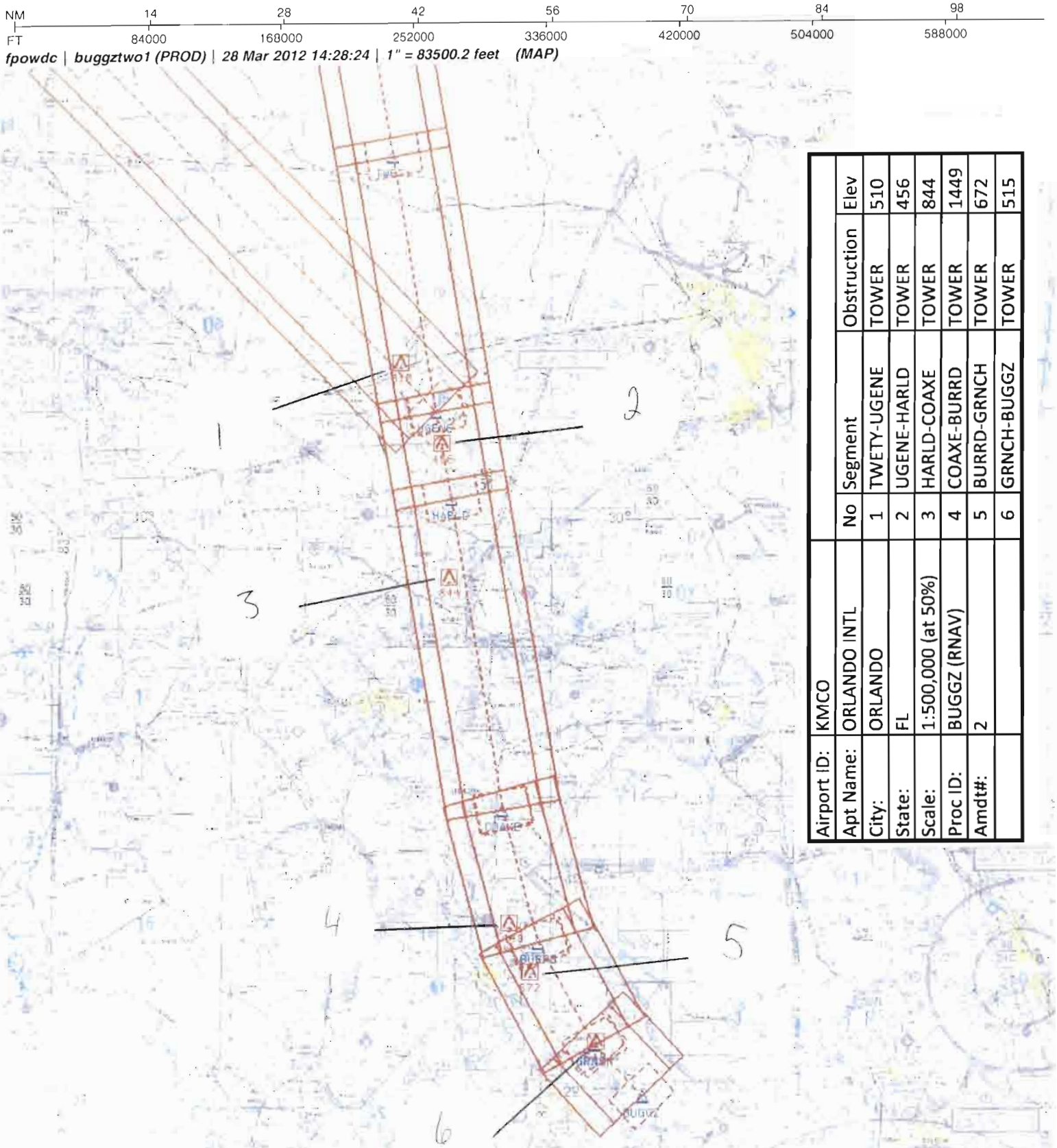
Prototype not For NAVIGATION

ARRIVAL DESCRIPTION

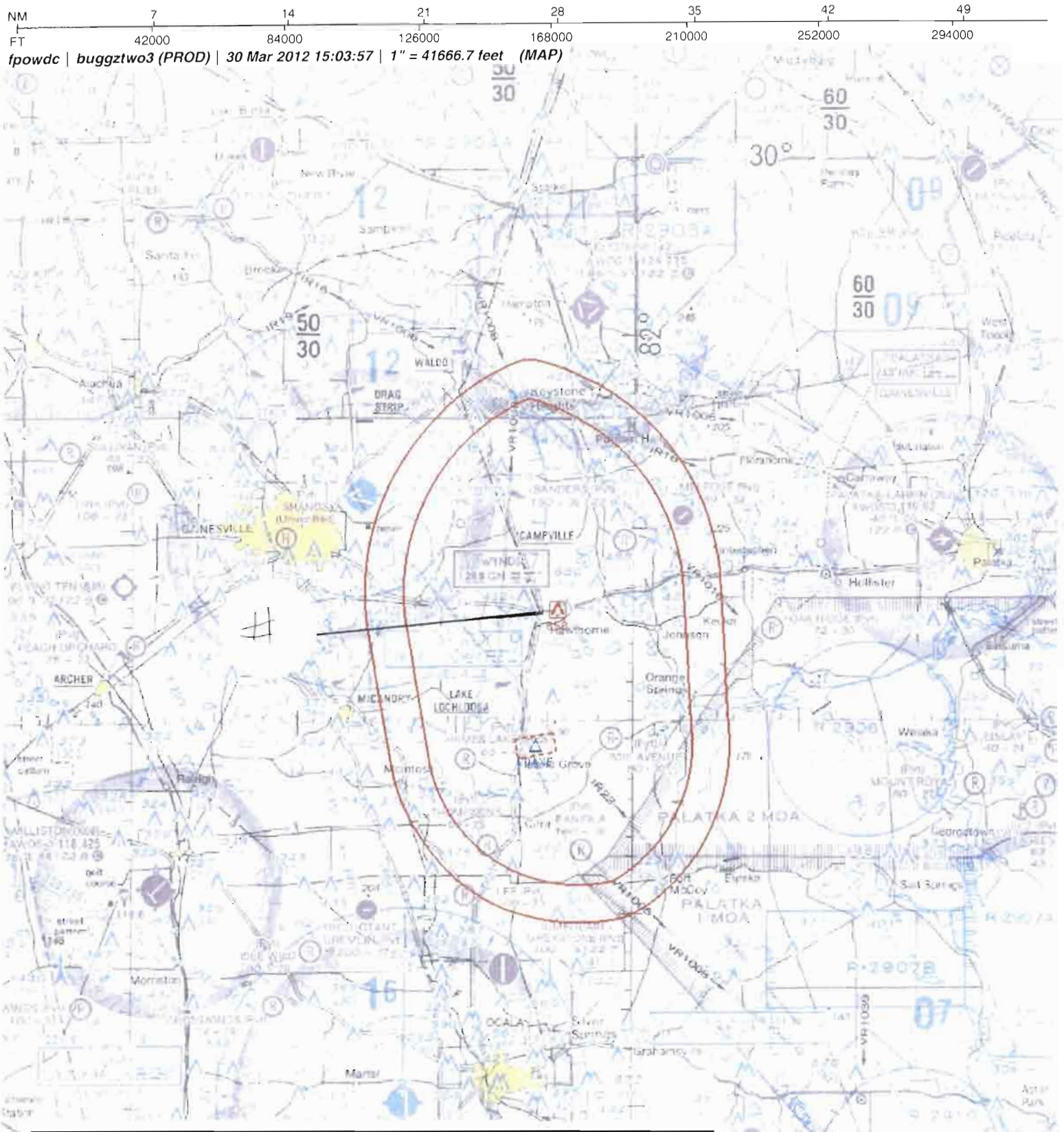
ALMA TRANSITON (AMG.BUGGZ2):
EMPEE TRANSITION (EMPEE.BUGGZ2):
SAVANNAH TRANSITION (SAV.BUGGZ2):
From over UGENE on track 176° to HARLD, thence as depicted to KAYWY, then on track 095°.

LOST COMMUNICATIONS:
KMCO LANDING NORTH: Continue track to KAYWY, then turn left to intercept the Rwy 36R final approach course. Conduct approach.
KMCO LANDING SOUTH: Continue track to BUNIE, then turn left to intercept the Rwy 18R final approach course, conduct approach.

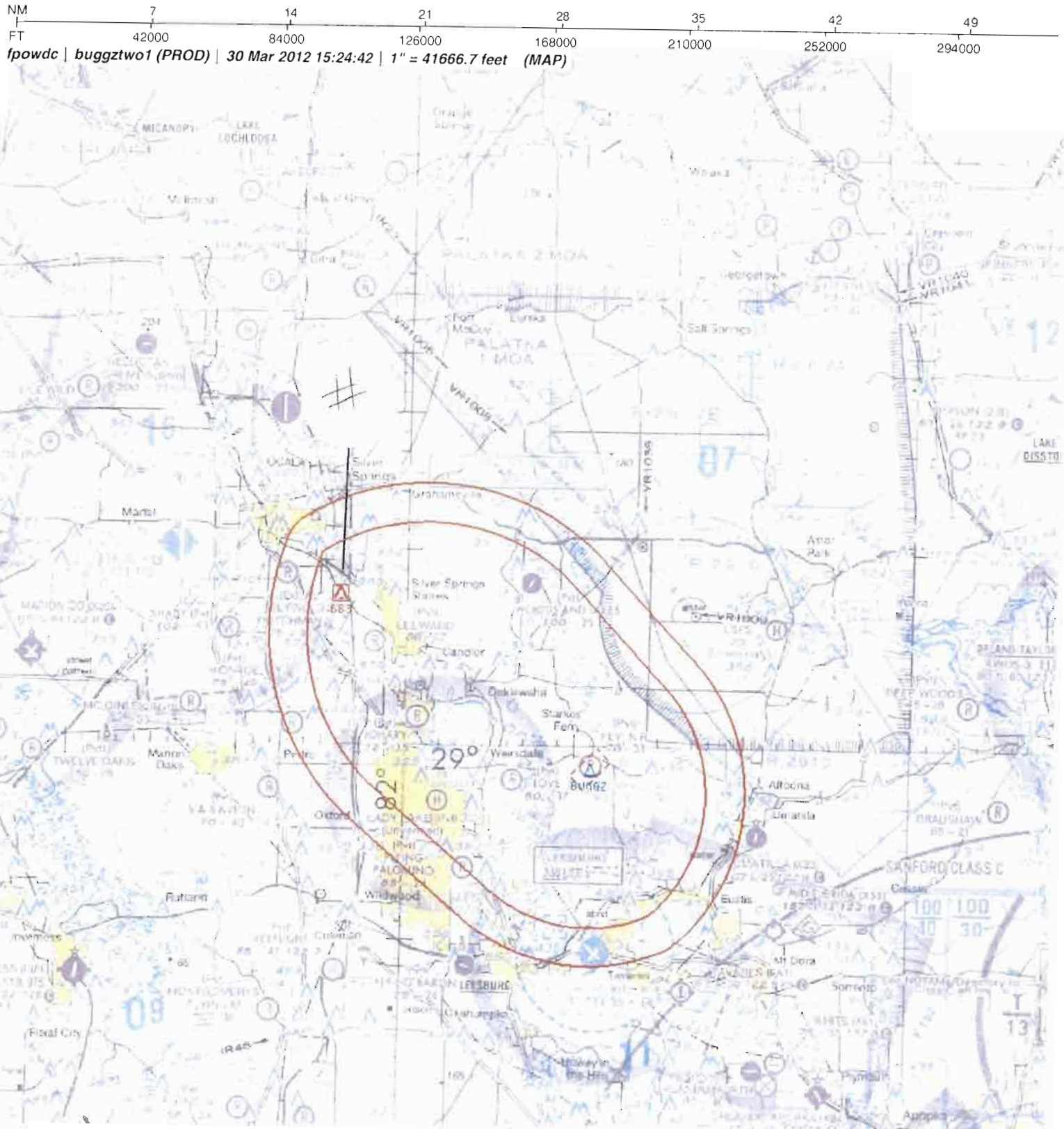
BUGGZ TWO ARRIVAL (RNAV)
(BUGGZ.BUGGZ2) FIG
ORLANDO, FLORIDA
ORLANDO INTL



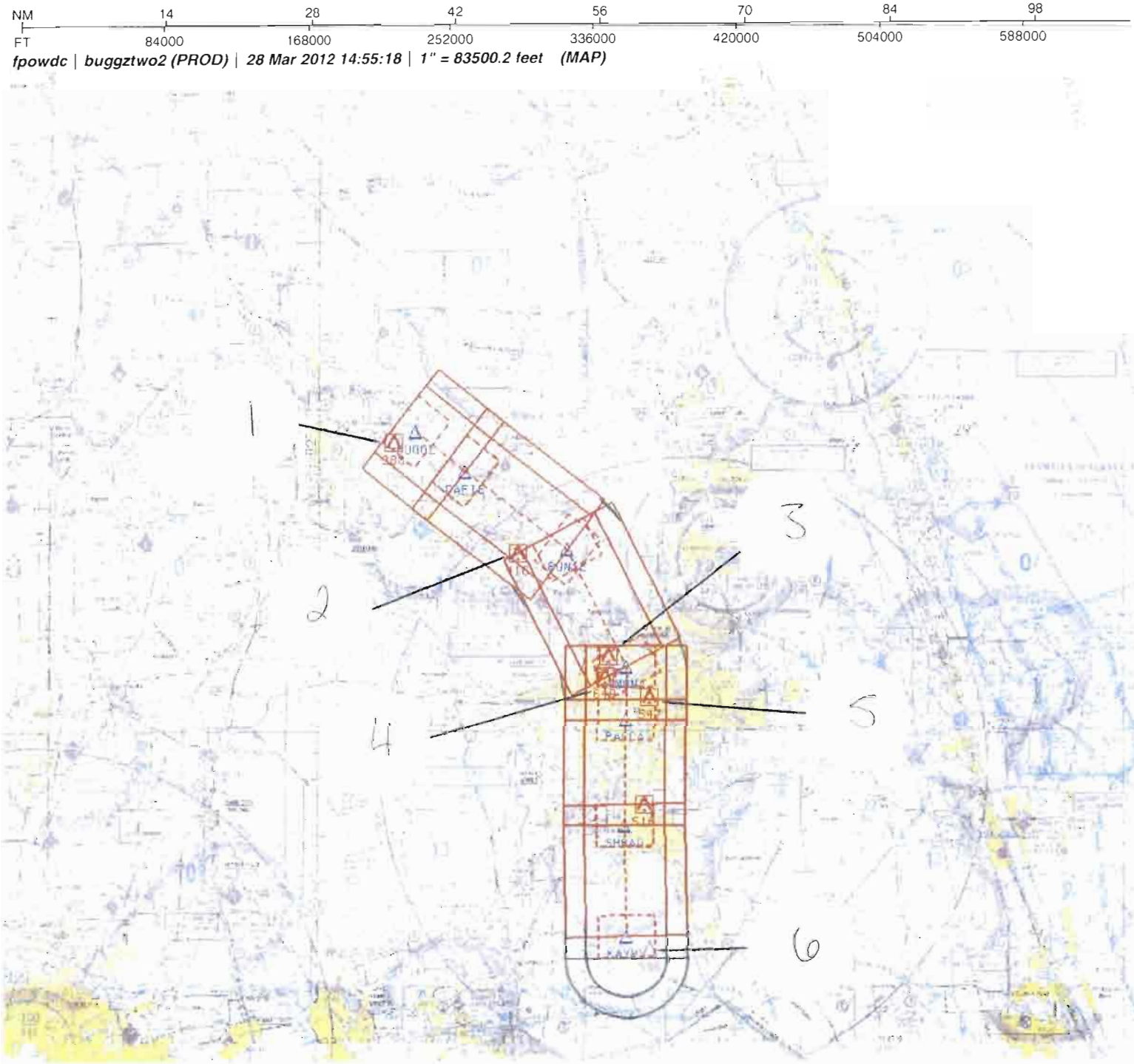
Airport ID:	KMCO				
Apt Name:	ORLANDO INTL	No	Segment	Obstruction	Elev
City:	ORLANDO	1	TWETY-UGENE	TOWER	510
State:	FL	2	UGENE-HARLD	TOWER	456
Scale:	1:500,000 (at 50%)	3	HARLD-COAXE	TOWER	844
Proc ID:	BUGGZ (RNAV)	4	COAXE-BURRD	TOWER	1449
Amdt#:	2	5	BURRD-GRNCH	TOWER	672
		6	GRNCH-BUGGZ	TOWER	515



Airport ID:	KMCO				
Apt Name:	ORLANDO INTL	No	Segment	Obstruction	Elev
City:	ORLANDO	#	COAXE HOLDING	TOWER	650
State:	FL				
Scale:	1:500,000				
Proc ID:	BUGGZ (RNAV)				
Amdt#:	2				



Airport ID:	KMCO				
Apt Name:	ORLANDO INTL	No	Segment	Obstruction	Elev
City:	ORLANDO	#	BUGGZ HOLDING	TOWER	663
State:	FL				
Scale:	1:500,000				
Proc ID:	BUGGZ (RNAV)				
Amdt#:	2				



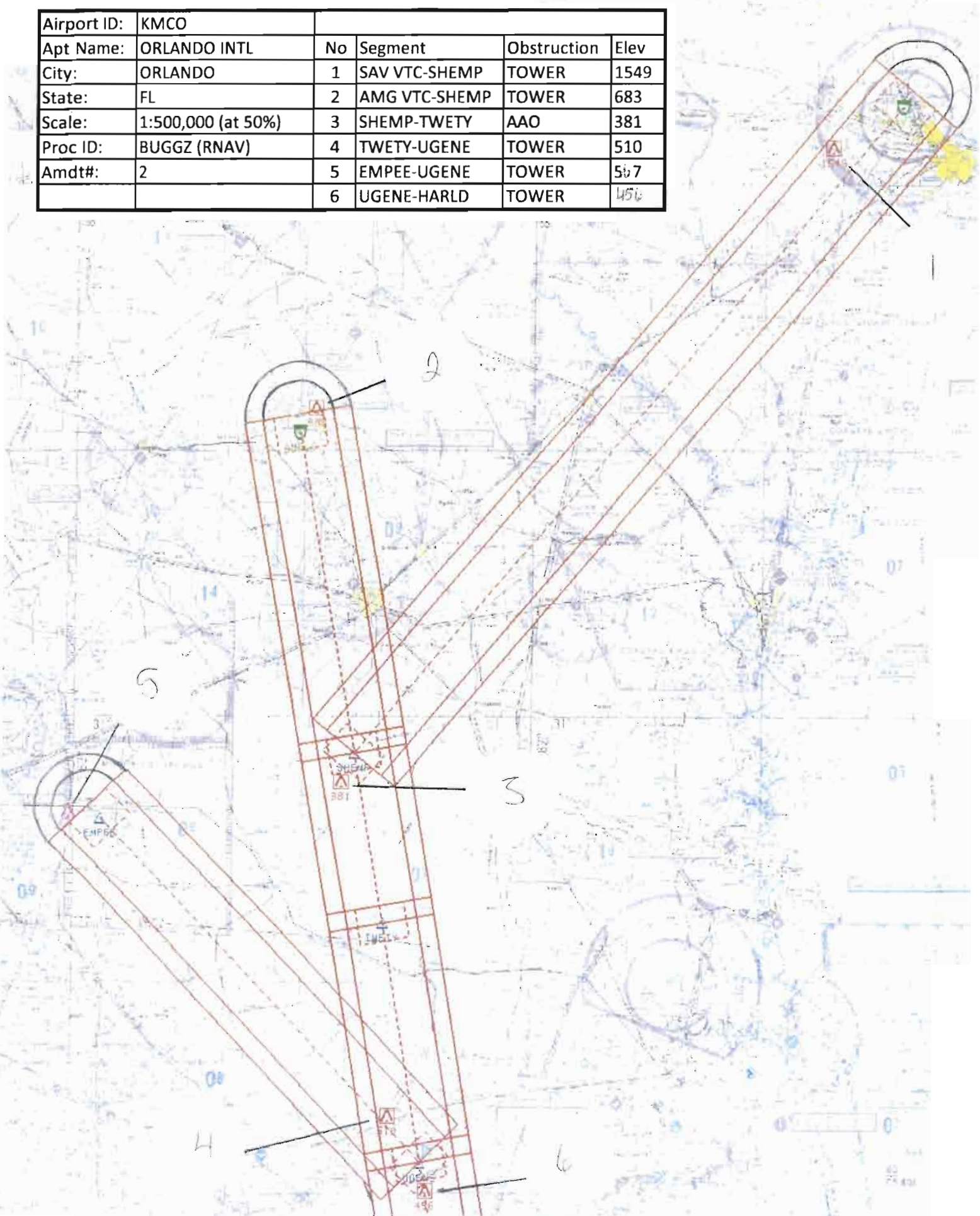
Airport ID:	KMCO				
Apt Name:	ORLANDO INTL	No	Segment	Obstruction	Elev
City:	ORLANDO	1	BUGGZ-DAFIE	AAO	388
State:	FL	2	DAFIE-BUNIE	TOWER	416
Scale:	1:500,000 (at 50%)	3	BUNIE-TWONA	TOWER	617
Proc ID:	BUGGZ (RNAV)	4	TWONA-PACCA	TOWER	649
Amdt#:	2	5	PACCA-SHBAG	TOWER	547
		6	SHBAG-KAYWY	TOWER	566

NM 14 28 42 56 70 84 98

FT 84000 168000 252000 336000 420000 504000 588000

fpowdc | buggztwo1 (PROD) | 28 Mar 2012 14:27:47 | 1" = 83500.2 feet (MAP)

Airport ID:	KMCO				
Apt Name:	ORLANDO INTL	No	Segment	Obstruction	Elev
City:	ORLANDO	1	SAV VTC-SHEMP	TOWER	1549
State:	FL	2	AMG VTC-SHEMP	TOWER	683
Scale:	1:500,000 (at 50%)	3	SHEMP-TWETY	AAO	381
Proc ID:	BUGGZ (RNAV)	4	TWETY-UGENE	TOWER	510
Amdt#:	2	5	EMPEE-UGENE	TOWER	567
		6	UGENE-HARLD	TOWER	456



US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV/ FIX/NAVAID	(d) To RNAV/ FIX/NAVAID	(e) Mag Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
ALMA	AMG.BUGGZ2	AMG VORTAC	SHEMP	176.00/36.74	FL180			
			TWETY	176.04/19.68	FL180			
			UGENE	176.10/26.70	FL180			
EMPEE	EMPEE.BUGGZ2	EMPEE	UGENE	141.93/52.95	FL180			
SAVANNAH	SAV.BUGGZ2	SAV VORTAC	SHEMP	226.21/94.75	FL180			
			TWETY	176.04/19.68	FL180			
			UGENE	176.10/26.70	FL180			

(2) Arrival Route Description:

FROM OVER UGENE ON TRACK 175.74/9.16 TO HARLD (MEA FL180), THENCE AS DEPICTED TO KAYWY, THEN ON TRACK 095.00. EXPECT RADAR VECTORS.

(3) Procedural Data Notes:

RNAV1. RADAR REQUIRED. TURBOJET AIRCRAFT ONLY. DME/DME/IRU OR GPS REQUIRED.
EXPECT TO CROSS TWETY AT OR BELOW FL340.
EXPECT TO CROSS EMPEE AT FL270.
EMPEE TRANSITION, ATC ASSIGNED ONLY.
EXPECT TO CROSS BUGGZ AT 12000. LANDING SOUTH EXPECT 250 KTS.
KMCO LANDING SOUTH, EXPECT RADAR VECTORS PRIOR TO BUNIE.

QUALITY 4 CHECKED

(4) Fixes and/or Holding Patterns:

CHART HOLDING AT BUGGZ (HOLD NW, RT, 142.66 INBOUND). CHART HOLDING AT COAXE (HOLD N, LT, 176.28 INBOUND).

(5) Communications:

ORLANDO APPROACH CONTROL 125.55/338.2, ORLANDO INTL ATIS 121.25.

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	**TWO**	**BUGGZ.BUGGZ2**	**ONE**	**23 OCT 07**	

FAA Form 7100-4 (7/02)

(12) Airports Served

Airport Name: ORLANDO INTL	City/State: ORLANDO, FL
Airport Name: EXECUTIVE	City/State: ORLANDO, FL
Airport Name: KISSIMMEE GATEWAY	City/State: ORLANDO, FL

(13) Lost Communications Procedure:

KMCO LANDING NORTH: CONTINUE TRACK TO KAYWY, THEN TURN LEFT TO INTERCEPT THE RWY 36R FINAL APPROACH COURSE. CONDUCT APPROACH.
KMCO LANDING SOUTH: CONTINUE TRACK TO BUNIE, THEN TURN LEFT TO INTERCEPT THE RWY 18R FINAL APPROACH COURSE. CONDUCT APPROACH.

(14) Remarks:

OBSTACLE 13-004179 (567 MSL TOWER) 4D ACCURACY CODE REQUESTED FROM FLIGHT CHECK.

(15) Additional Flight Data:

REFERENCE MAGNETIC VARIATION = KMCO 6W/2015

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	**TWO**	**BUGGZ.BUGGZ2**	**ONE**	**23 OCT 07**	

FAA Form 7100-4 (7/02)

(16) Continuation: (BLOCK 2 DETAILED ARRIVAL ROUTE DESCRIPTION)

FROM OVER UGENE ON TRACK 175.74/9.16 TO HARLD (MEA FL180), THEN ON TRACK 176.28/32.72 TO COAXE (MEA 14000), THEN ON TRACK 170.84/14.34 TO BURRD (MEA 12000), THEN ON TRACK 157.13/12.22 TO GRNCH (MEA 10000), THEN ON TRACK 142.66/7.22 TRACK TO BUGGZ (MEA 8000), THEN ON TRACK 134.35/6.12 TO DAFIE (MEA 6000), THEN ON TRACK 133.02/12.56 TO BUNIE (MEA 6000), THEN ON TRACK 158.60/12.65 TO TWONA (MEA 4000), THEN ON TRACK 186.00/5.14 TO PACCA (MEA 4000), THEN ON TRACK 186.00/10.16 TO SHBAG (MEA 3000), THEN ON TRACK 184.65/10.66 TO KAYWY (MEA 3000), THEN ON TRACK 095.00. EXPECT RADAR VECTORS.

(17) Changes:

1. MAGNETIC HEADINGS.
2. FM LEG TRACK CHANGED FROM 090 TO 095.
3. ALL MEAS CHANGED.
4. CRITICAL DME ELIMINATED.
5. ADDED KISM AND KORL TO AIRPORTS SERVED.
6. CHANGED EXPECT ALTITUDE AT TWETY FROM FL300 TO FL340.
7. REMOVED EXPECT ALTITUDE NOTE AT HARLD.

(18) Reasons for Changes:

1. EPOCH MAGVAR ROTATION, (KMCO).
2. ATC REQUEST.
3. OLD ALTITUDES WERE DME/DME/IRU RECEPTION ALTITUDES.
4. CRITICAL DME ELIMINATION PROJECT.

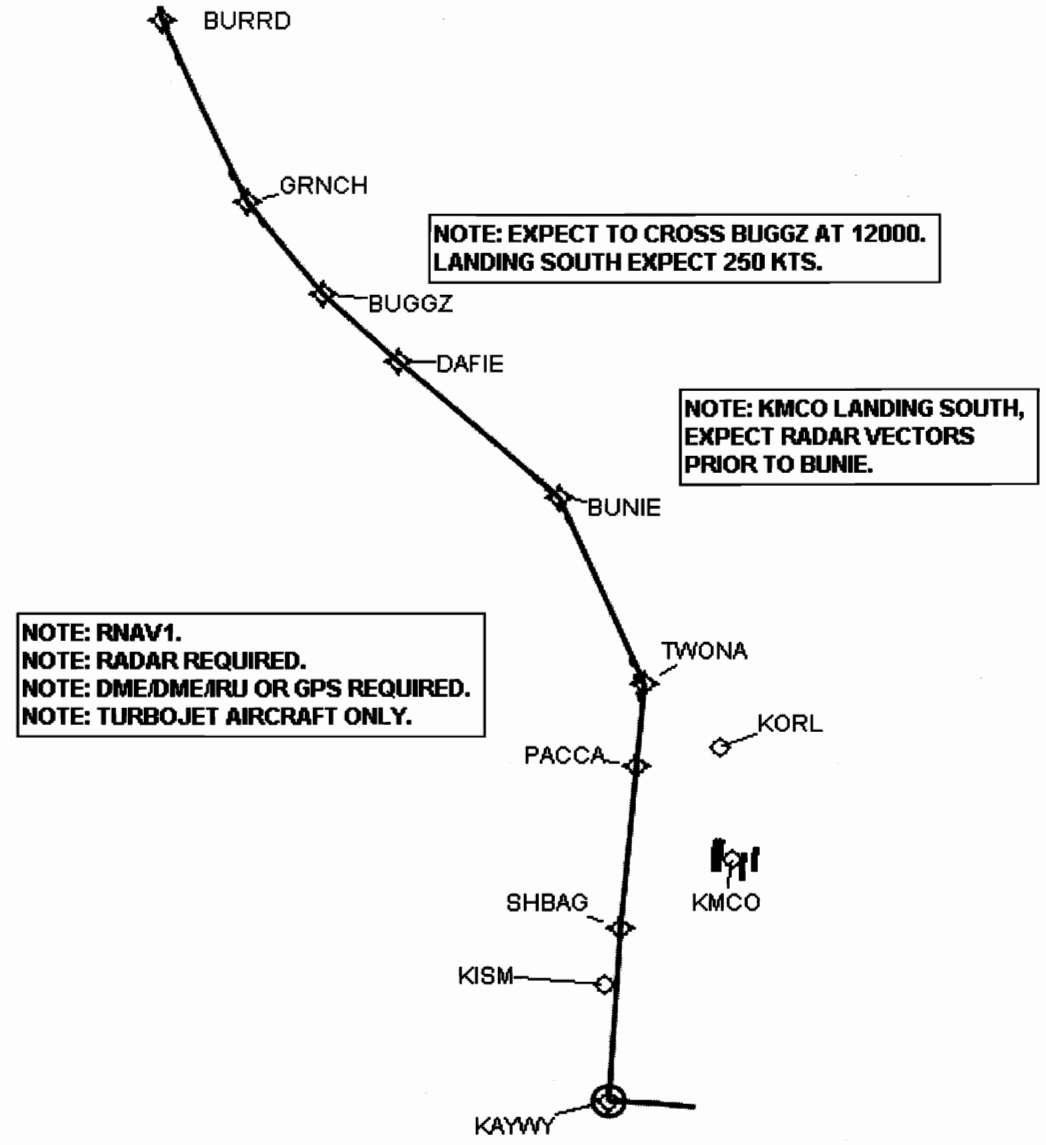
5-7. ATC REQUEST.

	Name *(Typed and Signed)*, Title and Organization		DATE
Developed By	DUANE SEMCKEN		
Approved	**FIFO**		
	Reg. ATD		

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	**TWO**	**BUGGZ.BUGGZ2**	**ONE**	**23 OCT 07**	

FAA Form 7100-4 (7/02)

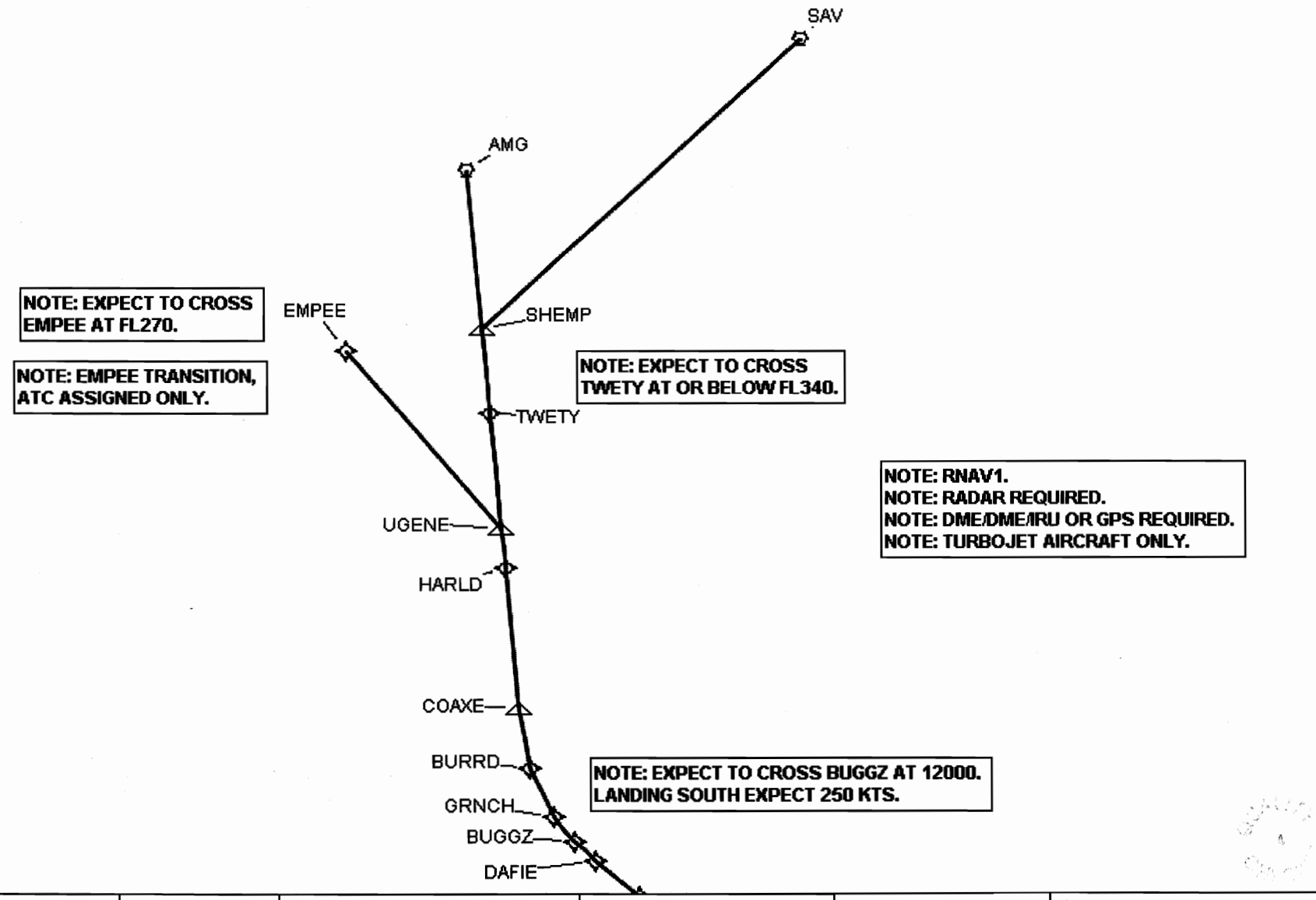
(19) Graphic Depiction (1 OF 5):



(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-4 (7/02)

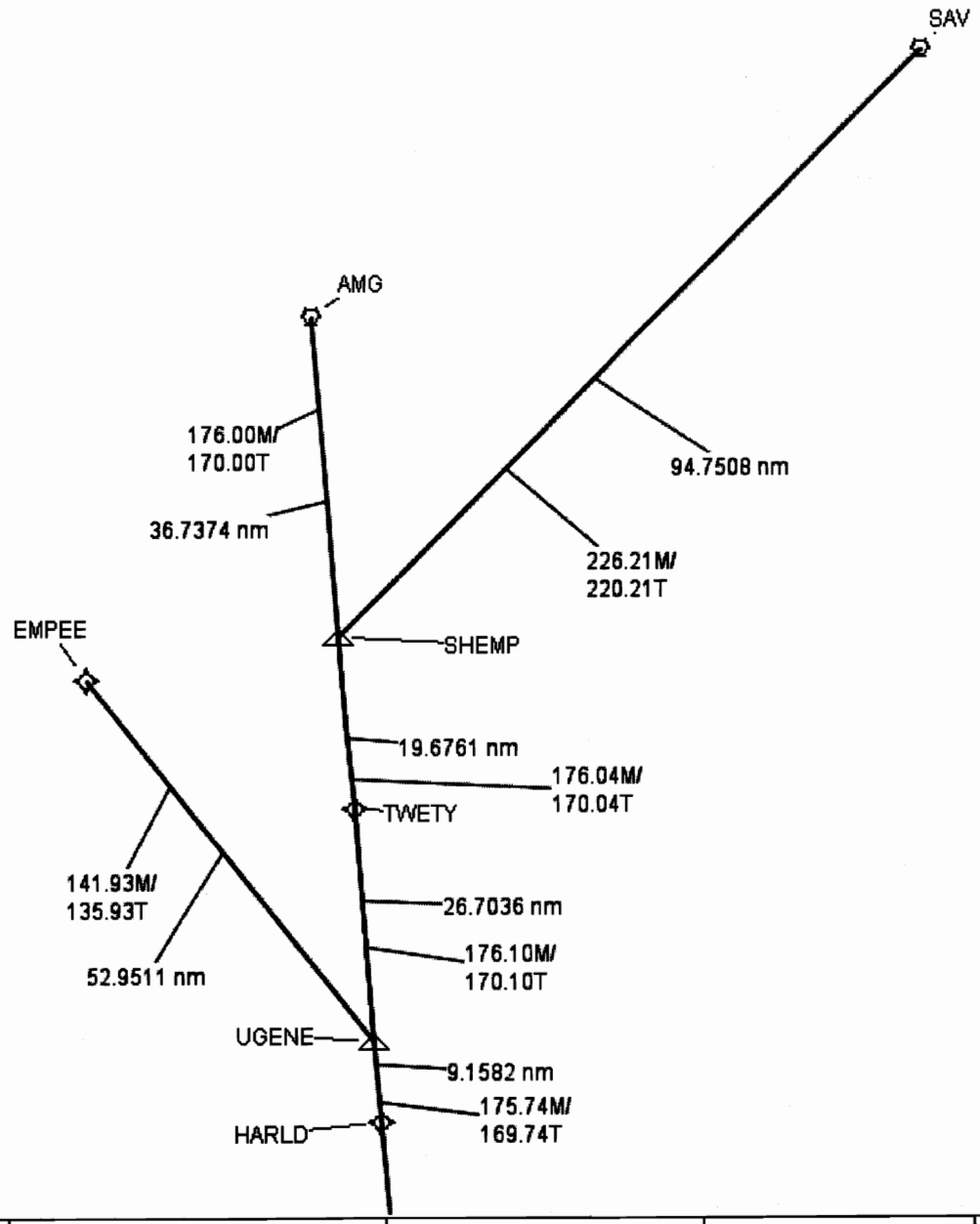
(19) Graphic Depiction (2 OF 5):



(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

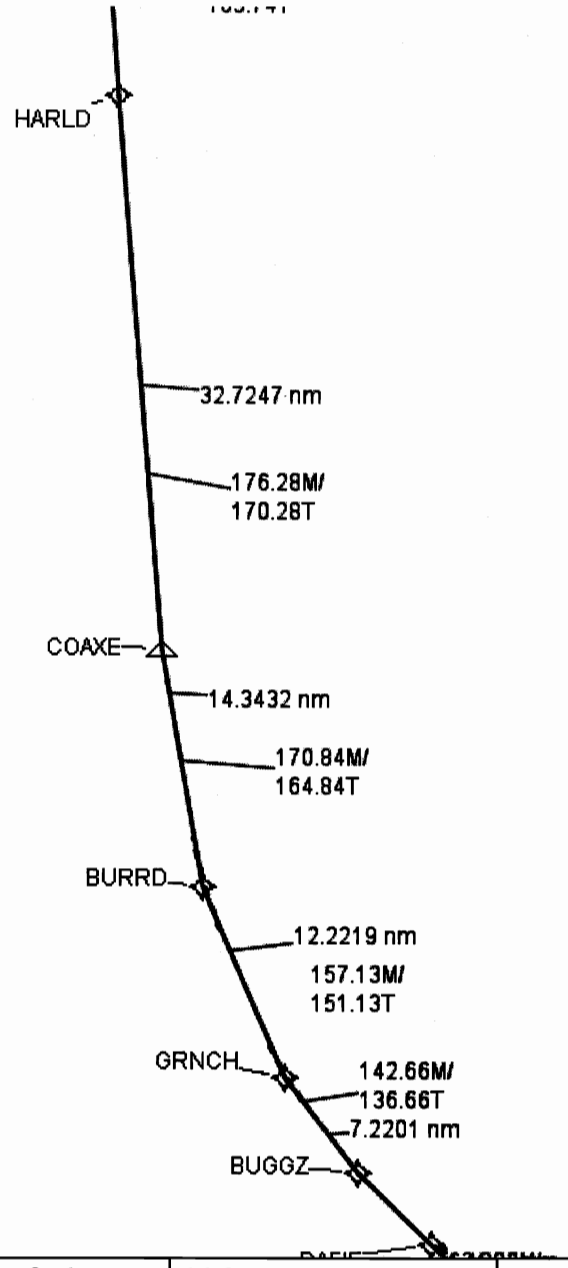
FAA Form 7100-4 (7/02)

(19) Graphic Depiction (3 OF 5):



(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

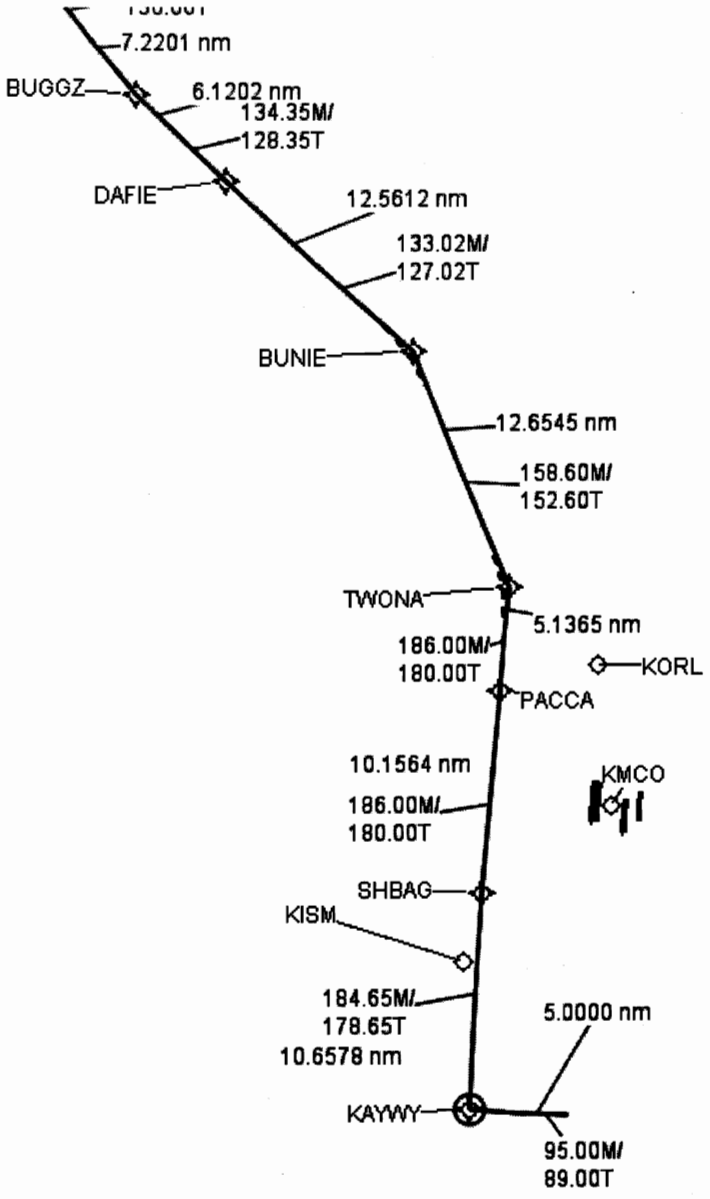
(19) Graphic Depiction (4 OF 5):



(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-4 (7/02)

(19) Graphic Depiction (5 OF 5):



(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-4 (7/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
AMG VORTAC	313211.60 N/ 0823029.12 W	Y		IF					AMG.BUGGZ2
SHEMP	305555.69 N/ 0822304.19 W	Y	FB	TF	170.00	36.74			
TWETY	303630.20 N/ 0821907.50 W	Y	FB	TF	170.04	19.68			EXPECT AT OR BELOW FL340
UGENE	301008.01 N/ 0821349.79 W	Y	FB	TF	170.10	26.70			
En Route Transition									
EMPEE	304823.00 N/ 0825619.00 W	Y		IF					EMPEE.BUGGZ2 EXPECT FL270
UGENE	301008.01 N/ 0821349.79 W	Y	FB	TF	135.93	52.95			
En Route Transition									
SAV VORTAC	320846.51 N/ 0811156.81 W	Y		IF					SAV.BUGGZ2
SHEMP	305555.69 N/ 0822304.19 W	Y	FB	TF	220.21	94.75			
TWETY	303630.20 N/ 0821907.50 W	Y	FB	TF	170.04	19.68			EXPECT AT OR BELOW FL340
UGENE	301008.01 N/ 0821349.79 W	Y	FB	TF	170.10	26.70			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
Common Route									
UGENE	301008.01 N/ 0821349.79 W	Y		IF					
HARLD	300106.00 N/ 0821157.00 W	Y	FB	TF	169.74	09.16			
COAXE	292845.80 N/ 0820537.25 W	Y	FB	TF	170.28	32.72			HOLDING - LEFT TURNS
BURRD	291453.00 N/ 0820120.00 W	Y	FB	TF	164.84	14.34			
GRNCH	290409.00 N/ 0815436.00 W	Y	FB	TF	151.13	12.22			
BUGGZ	285853.00 N/ 0814857.00 W	Y	FB	TF	136.66	07.22			KMCO LANDING RWYS SOUTH EXPECT 250K HOLDING - RIGHT TURNS EXPECT 12000
DAFIE	285504.47 N/ 0814328.84	Y	FB	TF	128.35	06.12			
BUNIE	284729.00 N/ 0813204.00 W	Y	FB	TF	127.02	12.56			
TWONA	283613.00 N/ 0812527.00	Y	FB	TF	152.60	12.65			
PACCA	283104.00 N/ 0812527.00 W	Y	FB	TF	180.00	05.14			
SHBAG	282053.00 N/ 0812527.00 W	Y	FB	TF	180.00	10.16			
KAYWY	281012.00 N/ 0812510.00 W	Y	FO	TF	178.65	10.66			
				FM	089.00				

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        SAV   K7011595VTHA N32084651W081115681    N32084651W081115681W0060000242     NARSAVANNAH
        SUSAD        SGJ   K7010940VDTW N29572421W081194879    N29572421W081194879W0060000060     NARST AUGUSTINE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUGGZ K70    W     N28585300W081485700                    W0057     NAR          BUGGZ
        SUSAEAENRT   BUNIE K70    W     N28472900W081320400                    W0058     NAR          BUNIE
        SUSAEAENRT   BURRD K70    W     N29145300W082012000                    W0056     NAR          BURRD
        SUSAEAENRT   COAXE K70    C   H N29284580W082053725                    W0056     NAR          COAXE
        SUSAEAENRT   DAFIE K70    W     N28550447W081432884                    W0057     NAR          DAFIE
        SUSAEAENRT   EMPEE K70    W     N30482300W082561900                    W0052     NAR          EMPEE
        SUSAEAENRT   GRNCH K70    W     N29040900W081543600                    W0056     NAR          GRNCH
        SUSAEAENRT   HARLD K70    W     N30010600W082115700                    W0056     NAR          HARLD
        SUSAEAENRT   KAYWY K70    W     N28101200W081251000                    W0058     NAR          KAYWY
        SUSAEAENRT   PACCA K70    W     N28310400W081252700                    W0059     NAR          PACCA
        SUSAEAENRT   SHBAG K70    W     N28205300W081252700                    W0058     NAR          SHBAG
        SUSAEAENRT   SHEMP K70    C     N30555569W082230419                    W0056     NAR          SHEMP
        SUSAEAENRT   TWETY K70    W     N30363020W082190750                    W0056     NAR          TWETY
        SUSAEAENRT   TWONA K70    W     N28361300W081252700                    W0059     NAR          TWONA
        SUSAEAENRT   UGENE K70    C     N30100801W082134979                    W0056     NAR          UGENE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
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                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KMCOK7EBUGGZ24AMG    030TWETYK7EA0E    010TF                  17600197
        SUSAP KMCOK7EBUGGZ24AMG    040UGENEK7EA0EE   010TF                  17610267
        SUSAP KMCOK7EBUGGZ24EMPEE  010EMPEEK7EA0E      IF                                  18000
        SUSAP KMCOK7EBUGGZ24EMPEE  020UGENEK7EA0EE   010TF                  14190530
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QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

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SUSAP KMCOK7EBUGGZ24SAV   010SAV  K7D 0V       IF                                    18000
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SUSAP KMCOK7EBUGGZ24SAV   040UGENEK7EA0EE   010TF                    17610267
SUSAP KMCOK7EBUGGZ25ALL   010UGENEK7EA0E       IF                                    18000
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SUSAP KMCOK7EBUGGZ25ALL   060BUGGZK7EA0E  H 010TF                    14270072
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SUSAP KMCOK7EBUGGZ25ALL   090TWONAK7EA0E    010TF                    15860127
SUSAP KMCOK7EBUGGZ25ALL   100PACCAK7EA0E    010TF                    18600051
SUSAP KMCOK7EBUGGZ25ALL   110SHBAGK7EA0E    010TF                    18600102
SUSAP KMCOK7EBUGGZ25ALL   120KAYWYK7EA0EY   010TF                    18470107
SUSAP KMCOK7EBUGGZ25ALL   130KAYWYK7EA0EE      FM SGJ K7      188510700950    D

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RUNWAY  1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SUSAP KMCOK7GRW18L   0120051855 N28265400W081192030+0000    +000030009300005520OR
SUSAP KMCOK7GRW18R   0120041855 N28265386W081193711+0000    +000030009300005520OIITFE1
SUSAP KMCOK7GRW35L   0100000055 N28242920W081174413+0000    -000150008700005715OIIDDO3
SUSAP KMCOK7GRW35R   0090000055 N28250820W081165638+0000    -000050009000005715OIICER2
SUSAP KMCOK7GRW36L   0120040055 N28245501W081193583+0000    -000010009100005520OR
SUSAP KMCOK7GRW36R   0120050055 N28245515W081191904+0000    -000010009100005620OIIOJP3
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QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AMG	AMG	010		IF		FB					
	AMG	SHEMP	020		TF		FB	1.0	176.0()	036.7		
	AMG	TWETY	030		TF		FB	1.0	176.0()	019.7		
	AMG	UGENE	040		TF		FB	1.0	176.1()	026.7		
	EMPEE	EMPEE	010		IF		FB					
	EMPEE	UGENE	020		TF		FB	1.0	141.9()	053.0		
	SAV	SAV	010		IF		FB					
	SAV	SHEMP	020		TF		FB	1.0	226.2()	094.8		
	SAV	TWETY	030		TF		FB	1.0	176.0()	019.7		
	SAV	UGENE	040		TF		FB	1.0	176.1()	026.7		
	ALL	UGENE	010		IF		FB					
	ALL	HARLD	020		TF		FB	1.0	175.7()	009.2		
	ALL	COAXE	030		TF		FB	1.0	176.3()	032.7		
	ALL	BURRD	040		TF		FB	1.0	170.8()	014.3		
	ALL	GRNCH	050		TF		FB	1.0	157.1()	012.2		
	ALL	BUGGZ	060		TF		FB	1.0	142.7()	007.2		
	ALL	DAFIE	070		TF		FB	1.0	134.4()	006.1		
	ALL	BUNIE	080		TF		FB	1.0	133.0()	012.6		
	ALL	TWONA	090		TF		FB	1.0	158.6()	012.7		
	ALL	PACCA	100		TF		FB	1.0	186.0()	005.1		
	ALL	SHBAG	110		TF		FB	1.0	186.0()	010.2		
	ALL	KAYWY	120		TF		FO	1.0	184.7()	010.7		
	ALL	KAYWY	130		FM		FB		095.0()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AMG	N313211.60	W0823029.12	N3132.193	W08230.485
	SAV	N320846.51	W0811156.81	N3208.775	W08111.947
	SGJ	N295724.21	W0811948.79	N2957.404	W08119.813
	BUGGZ	N285853.00	W0814857.00	N2858.883	W08148.950
	BUNIE	N284729.00	W0813204.00	N2847.483	W08132.067
	BURRD	N291453.00	W0820120.00	N2914.883	W08201.333
	COAXE	N292845.80	W0820537.25	N2928.763	W08205.621
	DAFIE	N285504.47	W0814328.84	N2855.075	W08143.481
	EMPEE	N304823.00	W0825619.00	N3048.383	W08256.317
	GRNCH	N290409.00	W0815436.00	N2904.150	W08154.600
	HARLD	N300106.00	W0821157.00	N3001.100	W08211.950
	KAYWY	N281012.00	W0812510.00	N2810.200	W08125.167

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

PACCA	N283104.00	W0812527.00	N2831.067	W08125.450
SHBAG	N282053.00	W0812527.00	N2820.883	W08125.450
SHEMP	N305555.69	W0822304.19	N3055.928	W08223.070
TWETY	N303630.20	W0821907.50	N3036.503	W08219.125
TWONA	N283613.00	W0812527.00	N2836.217	W08125.450
UGENE	N301008.01	W0821349.79	N3010.134	W08213.830
RW17L	N282637.31	W0811657.29	N2826.622	W08116.955
RW17R	N282608.20	W0811745.17	N2826.137	W08117.753
RW18L	N282654.00	W0811920.30	N2826.900	W08119.338
RW18R	N282653.86	W0811937.11	N2826.898	W08119.619
RW35L	N282429.20	W0811744.13	N2824.487	W08117.736
RW35R	N282508.20	W0811656.38	N2825.137	W08116.940
RW36L	N282455.01	W0811935.83	N2824.917	W08119.597
RW36R	N282455.15	W0811919.04	N2824.919	W08119.317

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	00090	55
RW17R	00090	53
RW18L	00093	55
RW18R	00093	55
RW35L	00087	57
RW35R	00090	57
RW36L	00091	55
RW36R	00091	56

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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        SUSAD         SAV    K7011595VTHA N32084651W081115681    N32084651W081115681W0060000242     NARSAVANNAH
        SUSAD         SGJ    K7010940VDTW N29572421W081194879    N29572421W081194879W0060000060     NARST AUGUSTINE

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WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAEAENRT    BURRD K70    W     N29145300W082012000                W0056     NAR          BURRD
        SUSAEAENRT    COAXE K70    C   H N29284580W082053725                W0056     NAR          COAXE
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        SUSAEAENRT    EMPEE K70    W     N30482300W082561900                W0052     NAR          EMPEE
        SUSAEAENRT    GRNCH K70    W     N29040900W081543600                W0056     NAR          GRNCH
        SUSAEAENRT    HARLD K70    W     N30010600W082115700                W0056     NAR          HARLD
        SUSAEAENRT    KAYWY K70    W     N28101200W081251000                W0058     NAR          KAYWY
        SUSAEAENRT    PACCA K70    W     N28310400W081252700                W0059     NAR          PACCA
        SUSAEAENRT    SHBAG K70    W     N28205300W081252700                W0058     NAR          SHBAG
        SUSAEAENRT    SHEMP K70    C     N30555569W082230419                W0056     NAR          SHEMP
        SUSAEAENRT    TWETY K70    W     N30363020W082190750                W0056     NAR          TWETY
        SUSAEAENRT    TWONA K70    W     N28361300W081252700                W0059     NAR          TWONA
        SUSAEAENRT    UGENE K70    C     N30100801W082134979                W0056     NAR          UGENE

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AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KORLK7AORL     0     060YHN28324370W081195850W006000113        1800018000C    MNAR    EXECUTIVE

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SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KORLK7EBUGGZ24AMG   040UGENEK7EA0EE   010TF                  17610267
        SUSAP KORLK7EBUGGZ24EMPEE 010EMPEEK7EA0E      IF                                          18000
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

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SUSAP KORLK7EBUGGZ24SAV   010SAV  K7D 0V       IF                                    18000
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SUSAP KORLK7EBUGGZ24SAV   030TWETYK7EA0E    010TF                   17600197
SUSAP KORLK7EBUGGZ24SAV   040UGENEK7EA0EE   010TF                   17610267
SUSAP KORLK7EBUGGZ25ALL   010UGENEK7EA0E       IF                                    18000
SUSAP KORLK7EBUGGZ25ALL   020HARLDK7EA0E    010TF                   17570092
SUSAP KORLK7EBUGGZ25ALL   030COAXEK7EA0E  H 010TF                   17630327
SUSAP KORLK7EBUGGZ25ALL   040BURRDK7EA0E    010TF                   17080143
SUSAP KORLK7EBUGGZ25ALL   050GRNCHK7EA0E    010TF                   15710122
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SUSAP KORLK7EBUGGZ25ALL   070DAFIEK7EA0E    010TF                   13440061
SUSAP KORLK7EBUGGZ25ALL   080BUNIEK7EA0E    010TF                   13300126
SUSAP KORLK7EBUGGZ25ALL   090TWONAK7EA0E    010TF                   15860127
SUSAP KORLK7EBUGGZ25ALL   100PACCAK7EA0E    010TF                   18600051
SUSAP KORLK7EBUGGZ25ALL   110SHBAGK7EA0E    010TF                   18600102
SUSAP KORLK7EBUGGZ25ALL   120KAYWYK7EA0EY   010TF                   18470107
SUSAP KORLK7EBUGGZ25ALL   130KAYWYK7EA0EE      FM SGJ K7      188510700950    D

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RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SUSAP KORLK7GRW25    0060042527 N28325769W081191955-0100    +00057001100000461501IEXO1
SUSAP KORLK7GRW32    0046253169 N28322573W081194942-0100    +0005500109000028100V
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AMG	AMG	010		IF		FB					
	AMG	SHEMP	020		TF		FB	1.0	176.0()	036.7		
	AMG	TWETY	030		TF		FB	1.0	176.0()	019.7		
	AMG	UGENE	040		TF		FB	1.0	176.1()	026.7		
	EMPEE	EMPEE	010		IF		FB					
	EMPEE	UGENE	020		TF		FB	1.0	141.9()	053.0		
	SAV	SAV	010		IF		FB					
	SAV	SHEMP	020		TF		FB	1.0	226.2()	094.8		
	SAV	TWETY	030		TF		FB	1.0	176.0()	019.7		
	SAV	UGENE	040		TF		FB	1.0	176.1()	026.7		
	ALL	UGENE	010		IF		FB					
	ALL	HARLD	020		TF		FB	1.0	175.7()	009.2		
	ALL	COAXE	030		TF		FB	1.0	176.3()	032.7		
	ALL	BURRD	040		TF		FB	1.0	170.8()	014.3		
	ALL	GRNCH	050		TF		FB	1.0	157.1()	012.2		
	ALL	BUGGZ	060		TF		FB	1.0	142.7()	007.2		
	ALL	DAFIE	070		TF		FB	1.0	134.4()	006.1		
	ALL	BUNIE	080		TF		FB	1.0	133.0()	012.6		
	ALL	TWONA	090		TF		FB	1.0	158.6()	012.7		
	ALL	PACCA	100		TF		FB	1.0	186.0()	005.1		
	ALL	SHBAG	110		TF		FB	1.0	186.0()	010.2		
	ALL	KAYWY	120		TF		FO	1.0	184.7()	010.7		
	ALL	KAYWY	130		FM		FB		095.0()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AMG	N313211.60	W0823029.12	N3132.193	W08230.485
	SAV	N320846.51	W0811156.81	N3208.775	W08111.947
	SGJ	N295724.21	W0811948.79	N2957.404	W08119.813
	BUGGZ	N285853.00	W0814857.00	N2858.883	W08148.950
	BUNIE	N284729.00	W0813204.00	N2847.483	W08132.067
	BURRD	N291453.00	W0820120.00	N2914.883	W08201.333
	COAXE	N292845.80	W0820537.25	N2928.763	W08205.621
	DAFIE	N285504.47	W0814328.84	N2855.075	W08143.481
	EMPEE	N304823.00	W0825619.00	N3048.383	W08256.317
	GRNCH	N290409.00	W0815436.00	N2904.150	W08154.600
	HARLD	N300106.00	W0821157.00	N3001.100	W08211.950
	KAYWY	N281012.00	W0812510.00	N2810.200	W08125.167

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

PACCA	N283104.00	W0812527.00	N2831.067	W08125.450
SHBAG	N282053.00	W0812527.00	N2820.883	W08125.450
SHEMP	N305555.69	W0822304.19	N3055.928	W08223.070
TWETY	N303630.20	W0821907.50	N3036.503	W08219.125
TWONA	N283613.00	W0812527.00	N2836.217	W08125.450
UGENE	N301008.01	W0821349.79	N3010.134	W08213.830
RW07	N283234.18	W0812021.39	N2832.570	W08120.357
RW14	N283255.68	W0812028.65	N2832.928	W08120.478
RW25	N283257.69	W0811919.55	N2832.962	W08119.326
RW32	N283225.73	W0811949.42	N2832.429	W08119.824

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW07	00106	39
RW14	00104	28
RW25	00110	46
RW32	00109	28

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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        SUSAD        SGJ   K7010940VDTW N29572421W081194879    N29572421W081194879W0060000060     NARST AUGUSTINE

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        SUSAEAENRT   COAXE K70    C   H N29284580W082053725                    W0056     NAR           COAXE
        SUSAEAENRT   DAFIE K70    W     N28550447W081432884                    W0057     NAR           DAFIE
        SUSAEAENRT   EMPEE K70    W     N30482300W082561900                    W0052     NAR           EMPEE
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        SUSAEAENRT   PACCA K70    W     N28310400W081252700                    W0059     NAR           PACCA
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        SUSAEAENRT   TWONA K70    W     N28361300W081252700                    W0059     NAR           TWONA
        SUSAEAENRT   UGENE K70    C     N30100801W082134979                    W0056     NAR           UGENE

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AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KISMK7EBUGGZ24AMG   040UGENEK7EA0EE   010TF                    17610267
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

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SUSAP KISMK7EBUGGZ25ALL   050GRNCHK7EA0E    010TF                    15710122
SUSAP KISMK7EBUGGZ25ALL   060BUGGZK7EA0E  H 010TF                    14270072
SUSAP KISMK7EBUGGZ25ALL   070DAFIEK7EA0E    010TF                    13440061
SUSAP KISMK7EBUGGZ25ALL   080BUNIEK7EA0E    010TF                    13300126
SUSAP KISMK7EBUGGZ25ALL   090TWONAK7EA0E    010TF                    15860127
SUSAP KISMK7EBUGGZ25ALL   100PACCAK7EA0E    010TF                    18600051
SUSAP KISMK7EBUGGZ25ALL   110SHBAGK7EA0E    010TF                    18600102
SUSAP KISMK7EBUGGZ25ALL   120KAYWYK7EA0EY   010TF                    18470107
SUSAP KISMK7EBUGGZ25ALL   130KAYWYK7EA0EE      FM SGJ K7      188510700950    D

          1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------

SUSAP KISMK7GRW06    0050010631 N28171264W081263858+0000    -0003400080000045150R
SUSAP KISMK7GRW15    0060011531 N28174649W081263011-0100    -00034000800000511001IIISM1
SUSAP KISMK7GRW24    0050012431 N28173883W081255111+0000    -0004000078000045150V
SUSAP KISMK7GRW33    0060013331 N28165606W081255462+0100    -0004500076000045100R
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AMG	AMG	010		IF		FB					
	AMG	SHEMP	020		TF		FB	1.0	176.0()	036.7		
	AMG	TWETY	030		TF		FB	1.0	176.0()	019.7		
	AMG	UGENE	040		TF		FB	1.0	176.1()	026.7		
	EMPEE	EMPEE	010		IF		FB					
	EMPEE	UGENE	020		TF		FB	1.0	141.9()	053.0		
	SAV	SAV	010		IF		FB					
	SAV	SHEMP	020		TF		FB	1.0	226.2()	094.8		
	SAV	TWETY	030		TF		FB	1.0	176.0()	019.7		
	SAV	UGENE	040		TF		FB	1.0	176.1()	026.7		
	ALL	UGENE	010		IF		FB					
	ALL	HARLD	020		TF		FB	1.0	175.7()	009.2		
	ALL	COAXE	030		TF		FB	1.0	176.3()	032.7		
	ALL	BURRD	040		TF		FB	1.0	170.8()	014.3		
	ALL	GRNCH	050		TF		FB	1.0	157.1()	012.2		
	ALL	BUGGZ	060		TF		FB	1.0	142.7()	007.2		
	ALL	DAFIE	070		TF		FB	1.0	134.4()	006.1		
	ALL	BUNIE	080		TF		FB	1.0	133.0()	012.6		
	ALL	TWONA	090		TF		FB	1.0	158.6()	012.7		
	ALL	PACCA	100		TF		FB	1.0	186.0()	005.1		
	ALL	SHBAG	110		TF		FB	1.0	186.0()	010.2		
	ALL	KAYWY	120		TF		FO	1.0	184.7()	010.7		
	ALL	KAYWY	130		FM		FB		095.0()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AMG	N313211.60	W0823029.12	N3132.193	W08230.485
	SAV	N320846.51	W0811156.81	N3208.775	W08111.947
	SGJ	N295724.21	W0811948.79	N2957.404	W08119.813
	BUGGZ	N285853.00	W0814857.00	N2858.883	W08148.950
	BUNIE	N284729.00	W0813204.00	N2847.483	W08132.067
	BURRD	N291453.00	W0820120.00	N2914.883	W08201.333
	COAXE	N292845.80	W0820537.25	N2928.763	W08205.621
	DAFIE	N285504.47	W0814328.84	N2855.075	W08143.481
	EMPEE	N304823.00	W0825619.00	N3048.383	W08256.317
	GRNCH	N290409.00	W0815436.00	N2904.150	W08154.600
	HARLD	N300106.00	W0821157.00	N3001.100	W08211.950
	KAYWY	N281012.00	W0812510.00	N2810.200	W08125.167

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

FAA Form 7100-3 (9/02)

PACCA	N283104.00	W0812527.00	N2831.067	W08125.450
SHBAG	N282053.00	W0812527.00	N2820.883	W08125.450
SHEMP	N305555.69	W0822304.19	N3055.928	W08223.070
TWETY	N303630.20	W0821907.50	N3036.503	W08219.125
TWONA	N283613.00	W0812527.00	N2836.217	W08125.450
UGENE	N301008.01	W0821349.79	N3010.134	W08213.830
RW06	N281712.64	W0812638.58	N2817.211	W08126.643
RW15	N281746.49	W0812630.11	N2817.775	W08126.502
RW24	N281738.83	W0812551.11	N2817.647	W08125.852
RW33	N281656.06	W0812554.62	N2816.934	W08125.910

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW06	00080	45
RW15	00080	51
RW24	00078	45
RW33	00076	45

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUGGZ RNAV	TWO	BUGGZ.BUGGZ2	ONE	23 OCT 07	

RADIO FIX AND HOLDING DATA RECORD

NAME: ALMA VORTAC **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 313211.60N/0823029.12W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	ALMA	AMG	VORTAC	H						45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (13-001468)	314711.00N/0822702.00W	1264	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 10,000.
(NAVAID RESTRICTION PROHIBITS USE BELOW 10,000 FT)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JACKSONVILLE			KJAX	JACKSONVILLE	FL (US)
DP	JAGUAR			KMCO	ORLANDO	FL (US)
DP	SRKUS (RNAV)			KSRQ	SARASOTA/BRADENTON	FL (US)
DP	BAYPO (RNAV)			KTPA	TAMPA	FL (US)
DP	SRKUS (RNAV)			KVNC	VENICE	FL (US)
DP	JUNPR (RNAV)			KAGS	AUGUSTA	GA (US)
DP	JUNPR (RNAV)			KAIK	AIKEN	SC (US)
EN ROUTE	J45					(US)
EN ROUTE	J46					(US)
EN ROUTE	J85					(US)
EN ROUTE	V157					(US)
EN ROUTE	V362					(US)
EN ROUTE	V51					(US)
EN ROUTE	V578					(US)
IAP	HI-ILS OR LOC RWY 14			KJAX	JACKSONVILLE	FL (US)
IAP	HI-ILS OR LOC RWY 26			KJAX	JACKSONVILLE	FL (US)
IAP	HI-ILS OR LOC RWY 8			KJAX	JACKSONVILLE	FL (US)
IAP	HI-TACAN RWY 14			KJAX	JACKSONVILLE	FL (US)
IAP	ILS OR LOC RWY 7			KBQK	BRUNSWICK	GA (US)
STAR	SHFTY (RNAV)			KFMY	FORT MYERS	FL (US)
STAR	SHFTY (RNAV)			KRSW	FORT MYERS	FL (US)
STAR	ALMA			KJAX	JACKSONVILLE	FL (US)
STAR	SHFTY (RNAV)			KMKY	MARCO ISLAND	FL (US)
STAR	SHFTY (RNAV)			KAPF	NAPLES	FL (US)
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	LEESE			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	LEESE			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)
STAR	LEESE			KORL	ORLANDO	FL (US)
STAR	CANUK (RNAV)			KATL	ATLANTA	GA (US)
STAR	SINCA			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FAC 1 TO CURRENT AVNIS DATA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZJX

ATC FACILITY: MCO ATCT, MCO APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: BUGGZ **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 285853.00N/0814857.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW		WP	322.66	142.66	R		7	8000	17000	9	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (12-002766)	290721.00N/0820356.00W	663	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-2910.

REMARKS:
KMCO 6W MAG VAR USED FOR PAT 1.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)		1	KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)		1	KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)		1	KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKE UP.
CHANGED PAT 1 CRS INBOUND TO REFLECT NEW MAGVAR.
CHANGED PAT 1 MIN ALT FROM 12000 TO 8000.
CHANGED PAT 1 MIN TEMPLATE FROM 10 TO 9.
UPDATED PAT 1 CONTROLLING OBSTRUCTION.
ADDED PRECIPITOUS TERRAIN EVALUATION REMARK.
UPDATED MCO MAGVAR REMARK TO CURRENT MAGVAR.
MOVED HOLDING RESTRICTIONS OUT OF THE REMARKS SECTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: BUNIE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 284729.00N/0813204.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: BURRD **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 291453.00N/0820120.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON, MCO ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: COAXE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 292845.80N/0820537.25W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ALMA	AMG	VORTAC	H	170.00	170.00	125.00	125.00		16000	45000
2	LAKELAND	LAL	VORTAC	H	356.32	357.32	89.46	89.46		16000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AMG	VORTAC	R-170	125	160	182

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	AMG	VORTAC	170.00	170.00	L	1 1/2		16000	45000	17	31
2	N		WP	356.28	176.28	L		8	14000	24000	11	20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (12-003299)	293522.00N/0820421.00W	650	5D
2	230	TOWER (12-003299)	293522.00N/0820421.00W	650	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
ALMA (FAC 1) AND LAKELAND (FAC 2) USED TO ESTABLISH FIX COORDINATES
KMCO 6W MAG VAR USED FOR PAT 2.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)		2	KISM	ORLANDO	FL (US)
STAR	LEESE	1, 2	1	KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)		2	KMCO	ORLANDO	FL (US)
STAR	LEESE	1, 2	1	KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)		2	KORL	ORLANDO	FL (US)
STAR	LEESE	1, 2	1	KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FAC 1 AND 2 TO CURRENT AVNIS DATA.
MADE FAC 1 AND 2 COORD FACS.
REMOVED FAC 3 FROM FIX MAKEUP.
UPDATED ESV.
CHANGED PAT 2 CRS INBOUND FROM 175.15 TO 176.28.
CHANGED PAT 2 MIN ALT FROM 12000 TO 14000.
CHANGED PAT 2 MIN TEMPLATE FROM 10 TO 11.
CHANGED PAT 2 DME LENGTH FROM 7 TO 8.
UPDATED CONTROLLING OBSTRUCTIONS FOR PAT 1 AND 2.
UPDATED REASONS FOR NONSTANDARD HOLDING.
UPDATED KMCO MAG VAR REMARK TO CURRENT MAG VAR.
ADDED PRECIPITOUS TERRAIN REMARK.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: DAFIE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 285504.47N/0814328.84W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: EMPEE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 304823.00N/0825619.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.
UPDATED FIX USE.
UPDATED DISTRIBUTION.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX, ZTL
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: GRNCH **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 290409.00N/0815436.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: HARLD **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 300106.00N/0821157.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: SHEMP **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 305555.69N/0822304.19W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SAVANNAH	SAV	VORTAC	H	226.21	220.21	94.75	94.75		16000	45000
2	ALMA	AMG	VORTAC	H	170.00	170.00	36.74	36.74		16000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	LEESE	1, 2		KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	LEESE	1, 2		KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)
STAR	LEESE	1, 2		KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FAC 1 AND 2 TO CURRENT AVNIS DATA.
ADDED DIST TO FAC TO FAC 1 AND 2.
UPDATED FIX USE.
UPDATED DISTRIBUTION.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: TWETY **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 303630.20N/0821907.50W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: UGENE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 301008.01N/0821349.79W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ALMA	AMG	VORTAC	H	170.00	170.00	83.12	83.12		16000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	LEESE	1		KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	LEESE	1		KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)
STAR	LEESE	1		KORL	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FAC 1 TO CURRENT AVNIS DATA.
ADDED DIST FROM FAC 1.
REMOVED FAC 2.
UPDATED FIX USE.
UPDATED DISTRIBUTION.

DEVELOPED BY: **DATE:** 04/04/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: KAYWY **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 281012.00N/0812510.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	PIGLT (RNAV)			KMCO	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1 FOR WP DESCRIPTION.
UPDATED DOCUMENTATION TO CURRENT FORMAT/CRITERIA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-352 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PACCA **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 283104.00N/0812527.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	PIGLT (RNAV)			KMCO	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1 FOR WP DESCRIPTION.
UPDATED DOCUMENTATION TO CURRENT FORMAT/CRITERIA.
UDPATED FIX USE.

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-352 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SAVANNAH VORTAC **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 320846.51N/0811156.81W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SAVANNAH	SAV	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (13-000706)	320332.00N/0811754.00W	1549	2C

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000 FT.

INFO ONLY

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JACKSONVILLE			KJAX	JACKSONVILLE	FL (US)
DP	JAGUAR			KMCO	ORLANDO	FL (US)
DP	MCCOY			KMCO	ORLANDO	FL (US)
DP	HUGO			KVUJ	ALBEMARLE	NC (US)
DP	PANTHER			KVUJ	ALBEMARLE	NC (US)
DP	HUGO			KCLT	CHARLOTTE	NC (US)
DP	PANTHER			KCLT	CHARLOTTE	NC (US)
DP	HUGO			KJQF	CONCORD	NC (US)
DP	PANTHER			KJQF	CONCORD	NC (US)
DP	HUGO			KAKH	GASTONIA	NC (US)
DP	PANTHER			KAKH	GASTONIA	NC (US)
DP	HUGO			KIPJ	LINCOLNTON	NC (US)
DP	PANTHER			KIPJ	LINCOLNTON	NC (US)
DP	HUGO			KEQY	MONROE	NC (US)
DP	PANTHER			KEQY	MONROE	NC (US)
DP	HUGO			KRUQ	SALISBURY	NC (US)
DP	PANTHER			KRUQ	SALISBURY	NC (US)
DP	HUGO			KLKR	LANCASTER	SC (US)
DP	PANTHER			KLKR	LANCASTER	SC (US)
DP	HUGO			KUZA	ROCK HILL	SC (US)
DP	PANTHER			KUZA	ROCK HILL	SC (US)
EN ROUTE	J103, J207, J51, J55, V154, V185, V3, V37, V437, V441, V578					(US)
IAP	HI-ILS OR LOC RWY 10			KSAV	SAVANNAH	GA (US)
IAP	ILS OR LOC RWY 1			KSAV	SAVANNAH	GA (US)
IAP	ILS OR LOC RWY 10			KSAV	SAVANNAH	GA (US)
IAP	VOR/DME OR TACAN RWY 1			KSAV	SAVANNAH	GA (US)
IAP	VOR/DME OR TACAN RWY 19			KSAV	SAVANNAH	GA (US)
IAP	VOR/DME-A			KSAV	SAVANNAH	GA (US)
IAP	COPTER VOR RWY 10			KSVN	SAVANNAH	GA (US)
IAP	ILS OR LOC RWY 28			KSVN	SAVANNAH	GA (US)
IAP	NDB RWY 28			KSVN	SAVANNAH	GA (US)
IAP	RNAV (GPS) RWY 10			KSVN	SAVANNAH	GA (US)
IAP	RNAV (GPS) RWY 28			KSVN	SAVANNAH	GA (US)
IAP	VOR RWY 28			KSVN	SAVANNAH	GA (US)
IAP	NDB RWY 23			KJYL	SYLVANIA	GA (US)
IAP	RNAV (GPS) RWY 7			KARW	BEAUFORT	SC (US)
IAP	ILS OR LOC RWY 9			KJZI	CHARLESTON	SC (US)
IAP	LOC/DME RWY 21			KHXD	HILTON HEAD ISLAND	SC (US)
IAP	VOR/DME-A			KHXD	HILTON HEAD ISLAND	SC (US)
IAP	NDB RWY 23			KRBW	WALTERBORO	SC (US)
STAR	BRUNSWICK			KJAX	JACKSONVILLE	FL (US)
STAR	BUGGZ (RNAV)			KISM	ORLANDO	FL (US)
STAR	LEESE			KISM	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	LEESE			KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)			KORL	ORLANDO	FL (US)
STAR	LEESE			KORL	ORLANDO	FL (US)
STAR	STUGE			KAGS	AUGUSTA	GA (US)
STAR	CHESTERFIELD			KCLT	CHARLOTTE	NC (US)
STAR	HUSTN (RNAV)			KCLT	CHARLOTTE	NC (US)
STAR	BAGGY (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	DDENA (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	BAGGY (RNAV)			KJZI	CHARLESTON	SC (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/29/2010

REASON FOR REVISION:
UPDATED HOLDING CONTROLLING OBSTACLE.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY:	**DATE:** 02/09/2010	**OFFICE:** AVN-110	**NAME:** KELLY DEAN
APPROVED BY:	**DATE:** 06/14/2010	**OFFICE:** AVN-110	**NAME:** GEORGE DAVIS
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: SAV APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SHBAG **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 282053.00N/0812527.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	PIGLT (RNAV)			KMCO	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1 FOR WP DESCRIPTION.
UPDATED DOCUMENTATION TO CURRENT FORMAT/CRITERIA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-352 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER: MCO ATCT

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: TWONA **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 283613.00N/0812527.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUGGZ (RNAV)			KMCO	ORLANDO	FL (US)
STAR	COSTR (RNAV)			KMCO	ORLANDO	FL (US)
STAR	PIGLT (RNAV)			KMCO	ORLANDO	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 01/13/2011

REASON FOR REVISION:
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/10/2010 **OFFICE:** AVN-110 **NAME:** HOWARD HAWKINS

APPROVED BY: **DATE:** 12/06/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: MCO APP CON
OTHER:

INFO ONLY