

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KMCO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)		<u>ORIGINAL/AMENDMENT</u> 5	<u>CITY</u> ORLANDO	<u>STATE</u> FL	
<u>AIRPORT ELEVATION</u> 96	<u>TDZE</u> 90	<u>SUPERSEDED</u> ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)	<u>ORIGINAL/AMENDMENT</u> 4	<u>DATED</u> 05/21/2020	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-CER	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
HAHNA	IAF	SERAY		TF	FB	1.00	324.16	6.34	4000
CRUSE/I-CER 17.08 DME/RADAR	IAF	SERAY/I-CER 13.93 DME/RADAR					005.48	3.15 (I-CER)	4000
SERAY/I-CER 13.93 DME/RADAR	IF	FESHA/I-CER 10.64 DME/RADAR					005.48	3.29 (I-CER)	3000
FESHA/I-CER 10.64 DME/RADAR		HEWES/I-CER 6.23 DME/RADAR					005.48	4.41 (I-CER)	1600

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 4.57 NM AFTER HEWES/I-CER 6.23 DME/RADAR OR AT I-CER 1.66 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 ON ORL VORTAC R-140 TO PRESK INT/ORL 16.17 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 4000 ON OMN VORTAC R-193 TO ZOKUM INT/OMN 31.77 DME AND HOLD.



<b>AIRPORT ID</b> KMCO	<b>PROCEDURE NAME</b> ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)	<b>ORIGINAL/AMENDMENT</b> 5	<b>CITY</b> ORLANDO	<b>STATE</b> FL
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**PROFILE:**

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT CRUSE

3. FAC: 005.48

FAF: HEWES/I-CER 6.23  
DME/RADAR

DIST FAF TO MAP: 4.57

DIST FAF TO THLD: 4.57

4. MIN ALT:

CRUSE/I-CER 17.08 DME/RADAR 5000, SERAY/I-CER 13.93 DME/RADAR 4000, FESHA/I-CER 10.64 DME/RADAR 3000, HEWES/I-CER 6.23 DME/RADAR 1600, WOLDI/I-CER 2.90 DME/RADAR 540

5. DIST TO THLD FROM OM:

MM:

IM: 861

100 HAT: 866

150 HAT: 1820

GS ANT: 1050

6. MIN GS INCPT: 1600

GS ALT AT FAF : HEWES/I-CER 6.23 DME/RADAR 1600

OM:

MM:

IM: 190

7. GP ANGLE: 3.00

34:1:

20:1:

TCH: 54.9

8. MSA FROM: ORL VORTAC 3000

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**EQUIPMENT REQUIREMENTS NOTES:**

FROM HAHNA: RNAV 1-DME/DME/IRU OR GPS REQUIRED.  
AIRCRAFT NOT DME/DME/IRU OR GPS EQUIPPED - RADAR REQUIRED FOR PROCEDURE ENTRY.  
DME OR RADAR REQUIRED FOR LOC ONLY.

**NOTES:**

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35R: CAT A, B, C, D, RA 157, RVR 1400, HAT 150, DA 240 MSL.  
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35R: CAT A, B, C, D, RA 101, RVR 1200, HAT 100, DA 190 MSL.  
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35R: CAT A, B, C, D, RVR 600  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.  
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: BRIGHT LIGHTS ON HIGHWAY MIDWAY BETWEEN RWY 35L AND RWY 35R MAY BE MISTAKEN FOR RUNWAY LIGHTS.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 35R CATS C/D VISIBILITY TO RVR 5500.  
CHART NOTE: WHEN USING ALTERNATE MISSED APPROACH, SIMULTANEOUS APPROACH NOT AUTHORIZED.  
CHART SPEED ICON IN PLANVIEW AT HAHNA: MAX 210 KIAS.

**ADDITIONAL FLIGHT DATA:**

CHART MANDATORY 6000 AT HAHNA.  
HOLD SE, RT, 319.79 INBOUND.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S ZOKUM INT/OMN 31.77 DME, LT, 012.52 INBOUND.  
CHART FAS OBST: 194 TRMSN TWR 282347N/0811657W.  
CHART IN PLANVIEW: ZOKUM INT/OMN 31.77 DME.  
CHART CIRCLING ICON.  
CHART KORL IN PLAN AND PROFILE VIEWS.



**AIRPORT ID**  
KMCO

**PROCEDURE NAME**  
ILS OR LOC RWY 35R  
ILS RWY 35R (SA CAT I),  
ILS RWY 35R (CAT II),  
ILS RWY 35R (CAT III)

**ORIGINAL/AMENDMENT**  
5

**CITY**  
ORLANDO

**STATE**  
FL

**MINIMUMS:**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

**ALTERNATE:** NA ☐ ILS: STANDARD; LOC: STANDARD

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
S-ILS 35R	290	1800	200	290	1800	200	290	1800	200	290	1800	200			
S-LOC 35R	460	2400	370	460	2400	370	460	3500	370	460	3500	370			
CIRCLING	740	1	644	740	1	644	740	1 3/4	644	740	2	644			

**CHANGES - REASONS**

1. TERMINAL ROUTES: ADDED HAHNA TO SERAY - NEW RNAV SEGMENT AT ATC REQUEST.
2. TERMINAL ROUTES: CHANGED CRUSE TO SERAY DME FROM 16.30/13.79 TO 17.08/13.93 AND DISTANCE FROM 2.51 TO 3.15 - CRUSE AND SERAY FIX MOVED.
3. TERMINAL ROUTES: CHANGED SERAY TO FESHA DME FROM 13.79 TO 13.93 AND DISTANCE FROM 3.15 TO 3.29 - SERAY FIX MOVED.
4. EQUIPMENT REQUIREMENTS NOTES: ADDED FROM HAHNA: RNAV 1-DME/DME/IRU OR GPS REQUIRED; CHANGED "RADAR REQUIRED FOR PROCEDURE ENTRY" TO "AIRCRAFT NOT DME/DME/IRU OR GPS EQUIPPED - RADAR REQUIRED FOR PROCEDURE ENTRY"; CHANGED "DME OR RADAR REQUIRED" TO "DME OR RADAR REQUIRED FOR LOC ONLY" - IAW 8260.19H PARA 8-6 -8.A(6)(A); 8-6-8.A(6)(C); 8-6-8.A(2)(C) (8260.19I CRITERIA DEFERRED UNTIL 6/17/2021 CHART CYCLE PER ATTACHMENT 5 OF THE IMPLEMENTATION OF 8260.19I)
5. ADDITIONAL FLIGHT DATA: CHANGED HOLD NW, RT, 139.79 INBOUND TO HOLD SE, RT, 319.79 INBOUND - FLIPPED HOLDING PATTERN DUE TO CIH RESULTING IN A NO SIGNAL ZONE OVER ORL VORTAC.
6. NOTES: CHANGED "SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH" TO "SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL" - IAW 8260.19I PARA 8-6-11.M(1) NOTE.
7. ADDED NOTE: CHART SPEED ICON IN PLANVIEW AT HAHNA: MAX 210 KIAS - ATC REQUEST.
8. ADDITIONAL FLIGHT DATA: ADDED CHART MANDATORY 6000 AT HAHNA - IAW 8260.19I PARA 8-6-10.N.
9. DELETED NOTE \*LOC ONLY - NO LONGER REQUIRED PER 8260.19I.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZJX, ZMA, ORLANDO APP CON, MCO ATCT, AMGR.

**FLIGHT CHECKED BY**

ROBERT E WILLIAMS

*Digitally signed by*

**ALLAN WILL**

Mar 01, 2021

**OFFICE**

FICO

**DATE**

02/24/2021

**DEVELOPED BY**

SHANE FOWLER

*Digitally signed by*

**SHANE FOWLER**

Jan 07, 2021

**OFFICE**

AJV-A423

**DATE**

12/03/2020

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*

**ALLAN WILL**

Mar 01, 2021

**OFFICE**

AJV-A420

**DATE**

**TITLE**  
MANAGER

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KMCO	ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)	5	ORLANDO	FL	96	I-CER

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
HAHNA

TO  
SERAY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	6.34				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (12-004624)	281028.20N/0811700.10W	580	50	20	2C	1000				AT2420	4000
2.TERRAIN	281239.00N/0811712.00W	91 (100)								AS1500	1600

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM  
CRUSE/I-CER 17.08 DME/RADAR

TO  
SERAY/I-CER 13.93 DME/RADAR

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	3.15				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (12-004624)	281028.20N/0811700.10W	580	50	20	2C	1000				AT2420	4000
2.TERRAIN	281239.00N/0811712.00W	91 (100)								AS1500	1600

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



<b>AIRPORT ID</b> KMCO	<b>PROCEDURE NAME</b> ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)	<b>AMDT NO.</b> 5	<b>CITY</b> ORLANDO	<b>STATE</b> FL	<b>AIRPORT ELEVATION</b> 96	<b>FACILITY</b> I-CER
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INTERMEDIATE

**FROM**  
SERAY/I-CER 13.93 DME/RADAR

**TO**  
FESHA/I-CER 10.64 DME/RADAR

<b>RNP</b>	<b>DISTANCE</b> 3.29	<b>PAT</b>	<b>MAP</b>	<b>HAT</b>			<b>HMAS</b>					
<b>OBSTRUCTION</b>	<b>COORDINATES</b>		<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
3.TOWER (12-003208)	281510.70N/0811937.90W		368	20	3	1A	500				AT2132	3000
4.TERRAIN	281457.00N/0811654.00W		95 (100)								AS1500	1600

<b>COMPUTATIONS</b>	<b>ALT</b>	<b>KIAS</b>	<b>KTAS</b>	<b>HAA</b>	<b>VKTW</b>	<b>TR</b>	<b>BA</b>	<b>DTA</b>	<b>COURSE CHANGE</b>	<b>DVEB</b>	<b>VEB OCS</b>	<b>RF CENTER FIX/DISTANCE</b>
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SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

**FROM**  
FESHA/I-CER 10.64 DME/RADAR

**TO**  
HEWES/I-CER 6.23 DME/RADAR

<b>RNP</b>	<b>DISTANCE</b> 4.41	<b>PAT</b>	<b>MAP</b>	<b>HAT</b>			<b>HMAS</b>					
<b>OBSTRUCTION</b>	<b>COORDINATES</b>		<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
5.TOWER (12-000764)	281553.00N/0811839.00W		324	500	50	5D	500					900
6.TERRAIN	281633.00N/0811418.00W		88 (100)								AS1500	1600

<b>COMPUTATIONS</b>	<b>ALT</b>	<b>KIAS</b>	<b>KTAS</b>	<b>HAA</b>	<b>VKTW</b>	<b>TR</b>	<b>BA</b>	<b>DTA</b>	<b>COURSE CHANGE</b>	<b>DVEB</b>	<b>VEB OCS</b>	<b>RF CENTER FIX/DISTANCE</b>
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SEGMENT REMARKS:



FINAL: ILS

FROM

HEWES/I-CER 6.23 DME/RADAR

TO

RW35R

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.57		DA	200								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				290

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: ILS CAT II

FROM

HEWES/I-CER 6.23 DME/RADAR

TO

RW35R

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.57		DA	100								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				190

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: ILS SA CAT I

FROM

HEWES/I-CER 6.23 DME/RADAR

TO

RW35R

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.57		DA		150							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				240

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LOC

FROM

HEWES/I-CER 6.23 DME/RADAR

TO

WOLDI/I-CER 2.90 DME/RADAR

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	3.33											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	282113.55N/0811708.04W		280	50	20	2C	250					540

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: LOC STEPDOWN

FROM

WOLDI/I-CER 2.90 DME/RADAR

TO

4.57 NM AFTER HEWES/I-CER 6.23 DME/RADAR OR AT I-CER 1.66 DME

RNP

DISTANCE

PAT

MAP

HAT

HMAS

1.24

4.57 NM AFTER HEWES/I-CER 6.23 DME/RADAR OR AT I-CER 1.66 DME

370

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TRMSN TWR (12-079440)	282346.84N/0811657.44W	194	20	3	1A	250					460

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : ILS

FROM

DA

TO

PRESK

RNP

DISTANCE

PAT

MAP

HAT

HMAS

122

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
9.TOWER (12-001928)	282842.00N/0811229.00W	421	500	50	5D	1000					1500
10.TERRAIN	282451.00N/0811527.00W	114 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:





MISSED APPROACH : ILS CAT II

FROM

DA

TO

PRESK

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
9.TOWER (12-001928)	282842.00N/0811229.00W		421	500	50	5D	1000					1500
10.TERRAIN	282451.00N/0811527.00W		114 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : ILS SA CAT I

FROM

DA

TO

PRESK

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
9.TOWER (12-001928)	282842.00N/0811229.00W		421	500	50	5D	1000					1500
10.TERRAIN	282451.00N/0811527.00W		114 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LOC

FROM  
4.57 NM AFTER HEWES/I-CER 6.23 DME/RADAR OR AT I-CER 1.66 DME

TO  
PRESK

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
								210				
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
9.TOWER (12-001928)	282842.00N/0811229.00W		421	500	50	5D	1000					1500
10.TERRAIN	282451.00N/0811527.00W		114 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : ILS

FROM  
DA

TO  
ZOKUM INT/OMN 31.77 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 122					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
11.TOWER (12-002837)	284122.40N/0812056.00W		554	50	20	2C	1000					1600
12.TERRAIN	283112.00N/0811857.00W		148 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH ALTERNATE : ILS CAT II

FROM  
DA

TO  
ZOKUM INT/OMN 31.77 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
11.TOWER (12-002837)	284122.40N/0812056.00W		554	50	20	2C	1000					1600
12.TERRAIN	283112.00N/0811857.00W		148 (100)								AS1500	1600

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : ILS SA CAT I

FROM  
DA

TO  
ZOKUM INT/OMN 31.77 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
11.TOWER (12-002837)	284122.40N/0812056.00W		554	50	20	2C	1000					1600
12.TERRAIN	283112.00N/0811857.00W		148 (100)								AS1500	1600

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH ALTERNATE : LOC

FROM  
4.57 NM AFTER HEWES/I-CER 6.23 DME/RADAR OR AT I-CER 1.66 DME

TO  
ZOKUM INT/OMN 31.77 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							210				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
11.TOWER (12-002837)	284122.40N/0812056.00W	554	50	20	2C	1000					1600
12.TERRAIN	283112.00N/0811857.00W	148 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
13.C-TWR (12-004633)	282537.96N/0811828.23W	1.30	644	430	20	3	1A	300			740
CATEGORY B											
13.C-TWR (12-004633)	282537.96N/0811828.23W	1.81	644	430	20	3	1A	300			740
CATEGORY C											
13.C-TWR (12-004633)	282537.96N/0811828.23W	2.84	644	430	20	3	1A	300			740
CATEGORY D											
13.C-TWR (12-004633)	282537.96N/0811828.23W	3.71	644	430	20	3	1A	300			740

CIRCLING REMARKS:



MSA

CENTER

ORL VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (12-004140)	281645.00N/0810124.00W	134	22.8	1949	50	20	2C	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



<u>AIRPORT ID</u> KMCO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)	<u>AMDT NO.</u> 5	<u>CITY</u> ORLANDO	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 96	<u>FACILITY</u> I-CER
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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
MCO TOWER, ZJX ARTCC, ZMA ARTCC, ORL APP CON

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KMCO	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMCO	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:  
BACKUP ALTIMETER SETTING NOT REQUIRED DUE TO REDUNDANT SOURCES AT KMCO.

<u>PRIMARY NAVAID</u> I-CER	<u>MONITOR POINT</u> ATCT	<u>HRS OPERATION</u> 24 HOURS	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW17L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW17R - TDZ, ALSF-2, HIRL (PCL), C/LINE, PAPI-4L	PIR-G	APPROACH
RW18L - HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW18R - TDZ, MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW35L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH
RW35R - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36L - HIRL, REIL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36R - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 89.7	<u>TCH</u> 54.9	<u>ELEV GS ANTENNA</u> 87.3	<u>DISTANCE FROM RWY</u> 1050	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 72.9
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FINAL APPROACH COURSE AIMING  
RUNWAY THRESHOLD ☒ FT FROM THRESHOLD  
ON CENTERLINE ☒ FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES  

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

QUALITY  
6  
CHECKED

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<b>AIRPORT ID</b>	<b>PROCEDURE NAME</b>	<b>AMDT NO.</b>	<b>CITY</b>	<b>STATE</b>	<b>AIRPORT ELEVATION</b>	<b>FACILITY</b>
KMCO	ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)	5	ORLANDO	FL	96	I-CER

**"VISUAL PORTION OF FINAL" PENETRATIONS**

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

VDP NOT ESTABLISHED - VDP LESS THAN 0.5 NM FROM STEPDOWN FIX.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

PER PUBLISHED PROCEDURE - MAXIMUM VEGETATION HEIGHT IN NON-SURVEYED AREAS: 100 FT.

CAT II/III MISSED APPROACH MANUAL EVALUATION DONE: ALL SURFACES CLEAR.  
CAT II/III MISSED APPROACH SECTION ONE, SURFACE-A HAS TWO PENETRATIONS THAT PER EFPT, ARE ACCEPTABLE OBSTACLES IAW FAAO 8260.3D, TABLE 10-6-1 AND FIXED BY FUNCTION PER AC 150/5300-13A, CHAPTER 6 TABLE 6-1. OBSTACLES: AIRNAV LISTS AS NAVAID (12-079622) BUT VERIFIED AS THLD LIGHT AND AIRNAV LISTS AS POLE (12-055394) BUT VERIFIED AS THLD LIGHT.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<div>AIRPORT ID</div> <div>KMCO</div>	<div>PROCEDURE NAME</div> <div>ILS OR LOC RWY 35R ILS RWY 35R (SA CAT I), ILS RWY 35R (CAT II), ILS RWY 35R (CAT III)</div>	<div>AMDT NO.</div> <div>5</div>	<div>CITY</div> <div>ORLANDO</div>	<div>STATE</div> <div>FL</div>	<div>AIRPORT ELEVATION</div> <div>96</div>	<div>FACILITY</div> <div>I-CER</div>
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.00
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.87
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.48
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.57
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.21
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.48
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100
THRESHOLD COORDINATES (IF STR-IN)	282508.20N/0811656.38W		
ARP COORDINATES	282545.80N/0811832.40W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 17L DISTANCE 1.64 NM		
FAF COORDINATES	282033.26N/0811653.56W		
FIX NAME COORDINATES			
REMARKS			

QUALITY  
6  
CHECKED

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PART E: PREPARED BY

<b>NAME</b> SHANE FOWLER	<b>OFFICE</b> AJV-A423	<b>DATE</b> 12/03/2020	<b>TITLE</b> AERONAUTICAL INFORMATION SPECIALIST
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