

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, 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 in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.54 NM AFTER RILOC INT/I-RSR 5.44 DME						
GDM VOR/DME		RILOC INT/I-RSR 5.44 DME		187.28 / 16.46 (GDM R-187)				2900		CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND GDM VOR/DME R-167 TO LAWRN/GDM 23.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ALTERNATE MA (DO NOT CHART): CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 160 AND PUT VOR/DME R-030 TO TROY INT/PUT 7.81 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 347.26 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE TROY INT, LT, 210.28 INBOUND. CHART IN PLANVIEW: TROY INT/PUT 7.81 DME. FAS OBST: 1234 AAO 421637N/0715855W. CHART VDP AT 1.36 DME* DISTANCE VDP TO THLD 1.45 NM. *LOC ONLY. CHART CIRCLING ICON. CHART IN PLANVIEW: GDM VOR/DME R-209 INTERSECTING FIX SPENO.						
SPENO INT/I-RSR 11.65 DME (IF/IAF)		RILOC INT/I-RSR 5.44 DME		108.84 / 6.21 (I-RSR)				2800								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 15W EPOCH YEAR: 1995						
2. HOLD W RILOC, LT, 108.84 INBOUND, 2800 FT. IN LIEU OF PT (IAF)																
3. FAC: 108.84 FAF: RILOC INT/I-RSR 5.44 DME DIST FAF TO MAP: 5.54 THLD: 5.54																
4. MIN. ALT: RILOC 2800																
5. DIST TO THLD FROM OM: - MM: - IM: 859 150 HAT: - 100 HAT: 857 GS ANT: 1057																
6. MIN GS INCPT: 2800 GS ALT AT: RILOC 2800 OM: - MM: - IM: 1080																
7. GS ANGLE: 3.00 TCH: 55.1																
8. MSA FROM: GDM VOR/DME 060-330 3300, 330-060 4400																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @								
CATEGORY =====>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 11		1180	1800	200	1180	1800	200	1180	1800	200	1180	1800	200			
S-LOC 11		1500	2400	520	1500	2400	520	1500	5500	520	1500	5500	520			
CIRCLING		1560	1	551	1720	1	711	2000	3	991	2000	3	991			
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT A, B, C, D, RA 119, RVR 1200, HAT 100, DA 1080 MSL. CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT III CAT A, B, C, D, RVR 600. (CONTINUED ON PAGE 2)																
CITY AND STATE WORCESTER, MA		ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL		FACILITY IDENTIFIER: I-RSR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 11, AMDT 25, 12/07/2017; ILS RWY 11 (CAT II), ILS RWY 11 (CAT III)						SUP: AMDT: 24 DATED 08/17/2017				

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>12/07/2017</div>	
COORDINATED WITH:					
ATA <div><input checked="" type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input checked="" type="checkbox"/></div>	
APA <div><input checked="" type="checkbox"/></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify) <div><input checked="" type="checkbox"/></div>		ZBW, BDL APP CON, ORH ATCT, AIRPORT MANAGER			
FLIGHT CHECKED BY					
NAME:		PENDING		Digitally signed by BEV L BORDY Sep 13, 2017	
				FIFO	
				DATE:	
DEVELOPED BY					
NAME:		BEV L BORDY (JACOB MAXFIELD)		Digitally signed by BEV L BORDY Sep 13, 2017	
				FIFO AJV-5433	
				DATE: 08/07/2017	
APPROVED BY					
NAME:		PATRICK MULQUEEN		Digitally signed by BEV L BORDY MANAGER Sep 13, 2017	
				FIFO AJV-5430	
				DATE:	
CHANGES:					
1. ADDED CAT II AND CAT III TO PROCEDURE. 2. ADDED "CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN." 3. ADDED "CAT II/III CHART NOTE: PROCEDURE NA WHEN TOWER CLOSED." 4. UPDATED INOP NOTE FROM "CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 11 CAT C/D VISIBILITY TO 1 3/8 SM" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 11 CAT C/D VISIBILITY TO 1 3/8 SM." 5. ADDED DIST TO THLD FROM IM 859 AND 100 HAT 857. 6. ADDED GS ALT AT IM 1080. 7. FAS OBSTACLE CHANGED FROM 1243 AAO TO 1234 AAO. 8. DELETED "CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1360." 9. ADDED NOTE: "WHEN CONTROL TOWER CLOSED: INCREASE S-ILS 11 ALL CATS VISIBILITY TO RVR 4000, AND S-LOC 11 CATS A AND B TO RVR 4000 AND CATS C AND D TO 1 1/4 SM." 10. ADDED NOTE: "CHART NOTE: WHEN CONTROL TOWER CLOSED: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 11 ALL CATS." 11. ADDED NOTE: "WHEN CONTROL TOWER CLOSED: FOR INOPERATIVE ALS, INCREASE S-LOC 11 CAT C AND D VISIBILITY TO 1 3/8 SM."					
REASONS:					
1. FPT REQUESTED TO ENHANCE CAPIBILITIES AT THE AIRPORT. 2. IAW 8260.19G 8-6-5. K.(3.) AND 8400.13 CH. 6. 3. IAW 8260.19G 8-6-5. K.(6.), 8400.13 CH 4-5.G, AND CH 7-5.G. 4. IAW 8-6-3.M(3)(D). 5. IAW 8260.19G 8-6-3.E.(3). 6. IAW 8260.19G 8-6-3.F.(5). 7. MAP STUDY. 8. GS ANTENNA UPGRADE. 9. - 11. ALSF-2 APPROACH LIGHTS REVERT TO SSALS WHEN TOWER CLOSED.					
PDF EDITS					
ADDED CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT III CAT A, B, C, D, RVR 600. ADDED # CAT B 800-2, CAT C, D 1000-3 ADDED @ CAT C, D 1000-3 ADDED CIRCLING MINS					



ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):
CHART NOTE: DME REQUIRED.
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
CAT II/III CHART NOTE: PROCEDURE NA WHEN TOWER CLOSED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPENO ON V229 SOUTHWEST BOUND AND ON V270 WESTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GDM VOR/DME AIRWAY RADIALS 179 CW 246.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 11 CATS C AND D VISIBILITY TO 1 3/8 SM.
CHART NOTE: WHEN CONTROL TOWER CLOSED: INCREASE S-ILS 11 ALL CATS VISIBILITY TO RVR 4000, AND S-LOC 11 CATS A AND B TO RVR 4000 AND CATS C AND D TO 1 1/4 SM.
CHART NOTE: WHEN CONTROL TOWER CLOSED: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 11 ALL CATS.
CHART NOTE: WHEN CONTROL TOWER CLOSED: FOR INOPERATIVE ALS, INCREASE S-LOC 11 CAT C AND D VISIBILITY TO 1 3/8 SM.



CITY AND STATE WORCESTER, MA	ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL	FACILITY IDENTIFIER: I-RSR	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 11, AMDT 25, 12/07/2017; ILS RWY 11 (CAT II), ILS RWY 11 (CAT III)	SUP:
				AMDT: 24
				DATED: 08/17/2017

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL		ROC		ALT. ADJUSTMENTS		MIN. ALT.			
FEEDER		GDM VOR/DME		RILOC INT/I-RSR		1. TOWER (25-000633)		422432.10N/0715703.90W		1859 (2C)		1000				2900			
				5.44 DME		2. TERRAIN		423057.00N/0720248.00W		1369 (1400)				AS1500		2900			
INTERMEDIATE		SPENO INT/I-RSR		RILOC INT/I-RSR		3. AAO		421900.00N/0720500.00W		1360 (2C)		500		AT940		2800			
		11.65 DME		5.44 DME		4. TERRAIN		421900.00N/0720500.00W		1160 (1200)				AS1500		2700			
		(IF/IAF)																	
FINAL: ILS		RILOC INT/I-RSR		RW11								ASC				1180/200			
		5.44 DME																	
FINAL: LOC		RILOC INT/I-RSR		5.54 NM AFTER		5. AAO		421637.03N/0715855.15W		1234 (2C)		250				1500			
		5.44 DME		RILOC INT/I-RSR															
				5.44 DME															
FINAL: ILS CAT II		RILOC INT/I-RSR		DA								ASC				1080/100			
		5.44 DME																	
2. HOLD-IN-LIEU-OF-PT		RILOC		P-5		6. AAO		421859.62N/0715527.01W		1420 (2C)		1000		AT380		2800			
						7. TERRAIN		421847.99N/0715520.64W		1230 (1200)				AS1500		2700			
3. MISSED APPROACH	MAP:		DA / 5.54 NM		LAWRN/GDM 23.00								ASC				3000		
			AFTER RILOC		DME		8. TOWER (25-000163)		421328.00N/0715249.00W		1192 (5D)		1000				2200		
	ELEV:		1012/1250				9. TERRAIN		421530.00N/0715433.00W		1090 (1100)				AS1500		2600		
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	551	10. TREE (25-049497)		421709.35N/0715418.21W		1247 (1A)		300		1560			
CATEGORY B		1.5 NM			450		711	11. TREE (25-030131)		421801.86N/0715347.40W		1406 (1A)		300		1720			
CATEGORY C		1.7 NM			450		991	12. ANTENNA (25-		421833.99N/0715411.29W		1681 (1A)		300		2000			
CATEGORY D		2.3 NM			550		991	12. ANTENNA (25-		421833.99N/0715411.29W		1681 (1A)		300		2000			
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: GDM VOR/DME																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
060-330		AAO		128/08.3		2215 (4E)		3300										QUALITY	
330-060		AAO		007/19.1		3334 (4E)		4400										4	
CITY AND STATE				ELEVATION: 1009				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
WORCESTER, MA				AIRPORT NAME: WORCESTER RGNL				I-RSR				ILS OR LOC RWY 11, AMDT 25, 12/07/2017; ILS RWY 11 (CAT II) , ILS RWY 11 (CAT III)				ANE			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. WHEN TOWER CLOSED, APPROACH LIGHT SYSTEM REVERTS TO SSALS. SEQUENCED FLASHING LIGHTS WILL NOT BE AVAILABLE VIA PILOT CONTROLLED LIGHTING DUE TO LIGHT POLLUTION PER FPT. FACILITY CLASS DEGRADES FROM FULL APPROACH LIGHT SYSTEM (FALS) TO INTERMEIDATE APPROACH LIGHT SYSTEM (IALS). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BEDFORD ALTIMETER SETTING AND INCREASE S-ILS 11 DA TO 1369 AND ALL MDA 200 FEET; INCREASE S-ILS 11 ALL CATS VISIBILITY TO RVR 3500 AND S-LOC 11 CATS C AND D VISIBILITY TO 1 5/8 SM, INCREASE CIRCLING CAT B VISIBILITY TO 1 1/4 SM. CHART NOTE: FOR INOPERATIVE ALS, WHEN USING BEDFORD ALTIMETER SETTING, INCREASE S-ILS 11 VISIBILITY ALL CATS TO RVR 6000 AND S-LOC 11 CAT C AND D VISIBILITY TO 2 SM. CHART NOTE: WHEN CONTROL TOWER CLOSED: : WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BEDFORD ALTIMETER SETTING AND INCREASE S-ILS 11 DA TO 1369 AND ALL MDA 200 FEET; INCREASE S-ILS 11 ALL CATS TO RVR 4500 AND INCREASE S-LOC 11 CATS C AND D TO 1 3/4, INCREASE CIRCLING CAT B VISIBILITY TO 1 1/4 SM. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.84NM CAT C: 2.90NM CAT D: 3.78NM NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS SAME KORH 1009.0, KBED 132.0 RA = 189.0. 80' VEGETATION UTILIZED PER FPT. ALTERNATE MISSED HOLDING NOT PART OF ENROUTE STRUCTURE. #12. ANTENNA (25-030076) VERIFIED TERRAIN ELEVATIONS ON QUAD. MISSED APPROACH OBSTACLES CONT. ALTERNATE: ASC 3000 8. TOWER (25-000163) 421328.00N/0715249.00W 1192 (5D) 1000 2200 13. TERRAIN 421519.98N/0715421.24W 1073 (1100) AS1500 2600			
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING							
BDL APP CON ORH TOWER				N W S	OTHER: ASOS		SOURCE: KORH / KBED						
				F A A			DISTANCE: 0 / 28.73						
				A / C			HOURS REMOTE OPERATION: 0 / YES / 24 / YES						
SATISFACTORY ON:			X	V H F	X	U H F		H F	LOCATION: KORH		ADJUSTMENT: 0 / 189		
4. MONITOR STATUS		PRIMARY NAVAID: I-RSR											
		MONITOR POINT: ORH ATCT											
		HRS OPTN:	CAT 1	TOWER OPEN									
5. APPROACH & RUNWAY LIGHTING		X	ALSF-2 11										
			(S) SALS										
			MAL S										
		X	HIRL 11 (PCL), 29 (PCL)										
		X	MIRL 15 (PCL), 33 (PCL)										
		X	REIL 15, 29 (PCL), 33										
		X	TDZ 11 (PCL)										
		X	C/L 11 (PCL), 29 (PCL)										
		X	OTHER (SPECIFY) VASI-4L 15 PAPI-4R 11 PAPI-4L 29, 33										
6. RUNWAY MARKINGS		BASIC BSC-F 15											
		ALL WEATHER PIR-F 11, 29											
		INSTRUMENT NPI-F 33											
7. RUNWAY VISUAL RANGE		APPROACH 11, 29											
		MIDFIELD 11											
		ROLL OUT 11, 29											
8. GLIDE PATH		GP ANGLE: 3.00					ELEV RWY THRESHOLD: 980.0						
		DISTANCE FROM RWY: 1057					ELEV GP ANTENNA: 975.1						
		THRESHOLD CROSSING HEIGHT: 55.1											
9. FINAL APPROACH COURSE AIMING			X	RUNWAY THRESHOLD							FT. FROM THRESHOLD		
			X	ON CENTERLINE							FT. FROM CENTERLINE		
10. WAIVERS: 1 ORDER 8260.3C, VOLUME 1, PARAGRAPH 3-3-2D; TABLE 3-3-6 VISIBILITY BELOW RVR 5000 / 1 SM. THIS WAIVER IS PENDING PER AFS-420 (SEE EMAIL CORRESPONDENCES).													
PART D - PREPARED BY: BEV L BORDY (JACOB MAXFIELD)								DATE: 08/07/2017					
TITLE: AERONAUTICAL INFORMATION SPECIALIST								OFFICE: AJV-5433					

