



Federal Aviation Administration

Memorandum

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To: Danny Hamilton, Manager, National Flight Procedures Office, AJW-32
Wayne Fetty, United State Air Force Flight Standards Agency (AFFSA)
Walt Perron, United States Army Aeronautical Services Agency, (USAASA)
Mark Brown, United States Naval Flight Information Group (NAVFIG)

From: John W. McGraw, Manager, Flight Technologies and Procedures Division, AFS-400 *J.W. McGraw for*

Subject: Equivalent Meter Runway Visual Range (RVR) and Visibility when RVR less than 2400 Authorized

PURPOSE

This memorandum provides policy guidance for instrument procedure developers clarifying the intent of Federal Aviation Administration (FAA) Order 8260.3B Change 20.

BACKGROUND

FAA Order 8260.3, U.S. Standard for Terminal **Instrument** Procedures (TERPS), Change 20 provides criteria for determining landing and takeoff minima for instrument procedures. Table 3-5a is used to determine the straight-in visibility and RVR (feet and meters) for all vertically-guided (PA and APV) and approach category A-C non-precision approaches. The table however does not clearly show the relationship between the statute mile ("SM) visibility value and meter ("M) RVR values used when the RVR less than 2400 is authorized under the provisions of FAA Order 8400.13. Intent of Table 3-5a is that the equivalent " SM and " M values for a HATh range also apply only when the conditions specified by the footnotes are met. It is also intended that the reductions are only authorized when all conditions specified by FAA Order 8400.13 are met. Otherwise the minimum publishable values are RVR 2400 (750m) and/or 1/2 SM visibility. It is also intended that the 3/8 SM visibility values are only published in the less than 2400 RVR case as part of the parenthetical **ceiling/visibility** used by the military.

POLICY

The attached table clarifies the intent of FAA Order 8260.3 Change 20, Volume 1, Table 3-5a.

If you have any questions, please contact Mr. Thomas J. Nichols, Flight Procedure Standards Branch, AFS-420, at (405) 954-4164.

Attachment

Table 3-5a. Minimum Visibility Values, All Procedures/Aircraft Categories (except category A and B nonprecision approaches, CAT II/III, and helicopters).

HATh Range			FALS			IALS			BALS			NALS		
			RVR	SM	M	RVR	SM	M	RVR	SM	M	RVR	SM	M
		200	1800 ^{1 2}	3/8 ²	550 ^{1 2}	2600	1/2	750	3000	5/8	1000	4000	3/4	1200
201	-	210	1800 ^{1 2}	3/8 ²	550 ^{1 2}	2600	1/2	750	3000	5/8	1000	4000	3/4	1200
211	-	220	1800 ^{1 2}	3/8 ²	550 ^{1 2}	2600	1/2	800	3500	5/8	1000	4000	3/4	1200
221	-	230	1800 ^{1 2}	3/8 ²	550 ^{1 2}	2600	1/2	800	3500	5/8	1000	4000	3/4	1200
231	-	240	1800 ^{1 2}	3/8 ²	550 ^{1 2}	2800	1/2	800	3500	5/8	1000	4000	3/4	1200
241	-	250	1800 ^{1 2}	3/8 ²	550 ^{1 2}	2800	1/2	800	3500	5/8	1000	4000	3/4	1300
251	-	260	1800 ^{1 2}	3/8 ²	600 ^{1 2}	2800	1/2	800	3500	5/8	1100	4000	3/4	1300
261	-	280	2000 ^{1 2}	3/8 ²	600 ^{1 2}	3000	5/8	900	3500	5/8	1100	4500	7/8	1300
281	-	300	2200 ^{1 2}	3/8 ²	650 ^{1 2}	3000	5/8	900	4000	3/4	1200	4500	7/8	1400
301	-	320	2400	1/2	700 ^{1 2}	3500	5/8	1000	4000	3/4	1200	4500	7/8	1400
321	-	340	2600	1/2	800	3500	5/8	1100	4500	7/8	1300	5000	1	1500
341	-	360	3000	5/8	900	4000	3/4	1200	4500	7/8	1400	5500	1	1600
361	-	380	3500	5/8	1000	4000	3/4	1300	5000	1	1500	5500	1	1700
381	-	400	3500	5/8	1100	4500	7/8	1400	5000	1	1600	6000	1 1/8	1800
401	-	420	4000	3/4	1200	5000	1	1500	5500	1	1700	6000	1 1/8	1900
421	-	440	4000	3/4	1300	5000	1	1600	6000	1 1/8	1800		1 1/4	2000
441	-	460	4500	7/8	1400	5500	1	1700	6000	1 1/8	1900		1 3/8	2100
461	-	480	5000	1	1500	6000	1 1/8	1800		1 1/4	2000		1 3/8	2200
481	-	500	5000	1	1500	6000	1 1/8	1800		1 1/4	2100		1 3/8	2300
501	-	520	5500	1	1600		1 1/4	1900		1 3/8	2100		1 3/8	2400
521	-	540	5500	1	1700		1 1/4	2000		1 3/8	2200		1 1/2	2400
541	-	560	6000	1 1/8	1800		1 3/8	2100		1 3/8	2300		1 5/8	2500
561	-	580		1 1/4	1900		1 3/8	2200		1 1/2	2400		1 5/8	2600
581	-	600		1 1/4	2000		1 3/8	2300		1 5/8	2500		1 3/4	2700
601	-	620		1 3/8	2100		1 1/2	2400		1 5/8	2600		1 3/4	2800
621	-	640		1 3/8	2200		1 1/2	2500		1 3/4	2700		1 3/4	2900
641	-	660		1 3/8	2300		1 5/8	2600		1 3/4	2800		1 7/8	3000
661	-	680		1 1/2	2400		1 3/4	2700		1 3/4	2900		1 7/8	3100
681	-	700		1 1/2	2500		1 3/4	2800		1 7/8	3000		2	3200
701	-	720		1 5/8	2600		1 3/4	2900		1 7/8	3100		2	3300
721	-	740		1 5/8	2700		1 3/4	3000		2	3200		2	3400
741	-	760		1 3/4	2700		1 7/8	3000		2	3300		2	3500
761	-	800		1 3/4	2900		2	3200		2	3400		2 1/2	3600
801	-	850		1 7/8	3100		2	3400		2 1/2	3600		2 1/2	3800
851	-	900		2	3300		2 1/2	3600		2 1/2	3800		2 1/2	4000
901	-	950		2	3600		2 1/2	3900		2 1/2	4100		2 5/8	4300
951	-	1000		2 1/2	3800		2 1/2	4100		2 1/2	4300		3	4500
1001	-	1100		2 1/2	4100		2 1/2	4400		3	4600		3	4900
1101	-	1200		3	4600		3	4900		3	5000		3	5000
1201	-	Above		3	5000		3	5000		3	5000		3	5000

¹RVR values as low as 1800 (550m) authorized for precision category I operations with TDZ/CL lights when permitted by Order 8400.13. No chart annotation required. Otherwise, specify RVR 2400 (750m) and 1/2 SM.

²RVR values as low as 1800 (550m), authorized for precision category I operations to runways without TDZ/CL lights when permitted by Order 8400.13, provided there is unrestricted lateral and vertical navigation guidance to the DA/H (i.e. no flight inspection restrictions on localizer or glideslope), a TCH not greater than 60 ft, and the approach is flown using a flight director, HUD or coupled to an autopilot. Specify RVR 2400 (750m) and 1/2 SM, and annotate the chart indicating that RVR appropriate to the HATh is authorized with use of flight director, HUD or coupled autopilot to DA. Otherwise, specify RVR 2400 (750m) and 1/2 SM.

³Parenthetical visibility value (published on civil charts for DoD use) when RVR less than 2400 (750m) authorized. Otherwise specify 1/2 SM.