



# Federal Aviation Administration

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## Memorandum

Date: JUL 19 2005

From: Manager, Flight Procedure Standards Branch, AFS-420

To: Manager, National Flight Procedures Office, AVN-100

Prepared by: Jack Corman, Flight Procedure Standards Branch, AFS-420

Subject: Clarification #3 to FAA Order 8260.52, United States Standard for Required Navigation Performance (RNP) Approach Procedures with Special Aircraft and Aircrew Authorization Required (SAAAR)

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Paragraph 3.2.1, *Controlling the Effects of Temperature on the Glidepath Angle*, provides guidance to calculate the minimum and maximum authorized temperatures for the approach procedure. The maximum temperature is intended to limit the maximum effective glidepath angle to a value in the vicinity of 1000 ft/min. When the calculated maximum temperature value is higher than can reasonably be expected to occur, the maximum glidepath angle value can be lowered to achieve a more realistic temperature value.

For example, for KDCA runway 19, the maximum temperature calculation for category C aircraft is:

Glidepath Angle:	3.00°	
Max Glidepath Angle:	4.07°	
PFAF Elevation:	2000	
LTP Elevation:	12	
ACT:	-11.40°C	
Min Glidepath Angle	2.80°	
NA Below	-11.40°C	11.48°F
NA Above	97.95°C	208.32°F

The maximum temperature of 208° is not a reasonable value. Therefore, by lowering the maximum glidepath angle to a value such as 3.5°, the maximum temperature calculation yields:

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	2000	
LTP Elevation:	12	
ACT:	-11.40°C	
<b>Min Glidepath Angle</b>	<b>2.80°</b>	
NA Below	-11.40°C	11.48°F
NA Above	49.01°C	120.22°F

The 120° value is more reasonable, but not so low that it would needlessly limit the procedure availability. This is a better choice for a published maximum temperature value. When a lower than calculated maximum glidepath angle is used, note the value used on the 8260-9 form. Coordinate (memo or email) the angle and resulting temperature with AFS-420 prior to sending the package forward for publication.

If you have questions, please contact Jack Corman at (405) 954-0012.



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