

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
COPTER RNAV (GPS) SPECIAL INSTRUMENT APPROACH PROCEDURE
SPECIFICATION -- NOT FOR COCKPIT USE**

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.

If an instrument approach procedure of the above type is conducted at the below named airport, it shall be conducted in accordance with a charted instrument approach procedure predicted on the specifications contained herein, unless an approach is conducted in accordance with a different procedure for such airport authorized by the Administrator. Minimum altitudes shall correspond with those established for enroute operations in the particular area or as set forth below.

<u>HELIPORT ID</u> MN33	<u>PROCEDURE NAME</u> COPTER RNAV (GPS) 193	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> DULUTH	<u>STATE</u> MN		
<u>SURFACE ELEVATION</u> 860	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u> CANCEL		

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>
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PROCEDURE CANCELED EFFECTIVE _____

MISSED APPROACH

MAP:

MISSED APPROACH INSTRUCTIONS:

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)	
2.							
3.	FAC:	FAF:		DIST FAF TO MAP:		DIST FAF TO THLD:	
4.	MIN ALT:						
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:		
6.	MIN GP INCPT:	GP ALT AT FAF:			OM:	MM:	IM:
7.	GP ANGLE:	34:1:	20:1:	TCH:			
8.	MSA FROM:						

NOTES:

ADDITIONAL FLIGHT DATA:

MINIMUMS:

ALTERNATE: NA ☐

QUALITY
20
CHECKED

<u>CATEGORY:</u>	<u>COPTER</u>														
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAS</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAS</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAS</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAS</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAS</u>

CHANGES - REASONS

<u>SUBMITTED BY</u>		<u>OFFICE</u>	<u>DATE</u>	
<u>FLIGHT CHECKED BY</u>		<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u> TRAVIS BRISTOW		<u>OFFICE</u> AJV-A421	<u>DATE</u> 10/10/2024	
<i>Digitally signed by</i> TRAVIS D BRISTOW Oct 10, 2024				
<u>RECOMMENDED BY</u> DAVID DANNER		<u>OFFICE</u> AJV-A421	<u>DATE</u> 02/20/2025	<u>TITLE</u> MANAGER
<i>Digitally signed by</i> DAVID DANNER Oct 21, 2024				
<u>APPROVED BY</u> DAVID DANNER		<u>OFFICE</u> AJV-A421	<u>DATE</u> 02/20/2025	<u>TITLE</u> MANAGER
<i>Digitally signed by</i> DAVID DANNER Oct 21, 2024				

