

FAA Operations Specifications/ LOA / Approvals Required to File Various Capabilities

Note that the requirements in the Ops Specs/MSpecs/LOA include operator and crew training requirements and authorizations. In keeping with the definition in Doc. 4444, remember that to file the indicated capability in a flight plan you must have:

- a) presence of relevant approved, operational Communication Navigation and Surveillance equipment, to include the appropriate number of units on board the aircraft to meet airspace requirements;
- b) equipment and capabilities commensurate with flight crew qualifications; and
- c) where applicable, authorization from the appropriate authority.

Requirements associated with each Ops Spec are documented in FAA Order 8900.1, Volume 3, Chapter 18. The Op Spec requirements are available at

- <http://fsims.faa.gov/> .

Requirements associated with Advisory Circulars are available at

- http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset or
- http://www.faa.gov/regulations_policies/advisory_circulars/.

Requirements associated with Technical Standards Orders are available at

- http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgTSO.nsf/MainFrame?OpenFrameset .

Special Operations	Part 121 (Ops Spec)	Part 135 (Ops Spec)	Part 125 (Ops Spec)	Part 91 (LOA)	Part 91K (MSPEC)	Other Approvals & Approval References	FPL Field 10a	FPL Field 10b	FPL Field 18
RVSM Capabilities									
RVSM	B046/D092	B046/D092	B046/D092	B046	B046/D092	AC 91-85	W	-	-
Surveillance Capabilities									
ADS-B Out 1090 ES (Domestic)	N/A	N/A	N/A	N/A	N/A	AC 20-165 and TSO-166 AC 90-114	-	B1 or B2	SUR/260B
ADS-B Out UAT (Domestic)	N/A	N/A	N/A	N/A	N/A	AC 20-165 and TSO-154 AC 90-114	-	U1 or U2	SUR/282B
ADS-B Out (International)	A353	A353	A353	A353	A353	A353 authorizes flight operations using ADS-B in international airspace where FAA authorization is required. Refer to State AIPs for airspace and/or routes where A353 is required. Also see INFO 13009 at Airline Operator INFOs	-	B1 or B2, U1 or U2	Note 2
ADS-C	A056	A056	A056	A056	A056	AC 120-70	-	D1,G1	-
GPS and GPS with WAAS Capabilities									
GPS	N/A	N/A	N/A	N/A	N/A	Order 8900.1, Volume 4, Chapter 1 section 4-31 or Aeronautical Information Manual (AIM) Chapter 1 – Air Navigation (see 1-1-19).	G	-	-
RNAV (GPS) Approach (LNAV, LNAV/VNAV)	C052	C052	C052	Note 1	C052	AC 90-105	G,R	-	PBN/S1 Note 5
RNAV (GPS) Approach (LNAV, LNAV/VNAV using Baro-VNAV)	C052	C052	C052	Note 1	C052	AC 90-105	G,R	-	PBN/S2 Note 6
GPS with WAAS	N/A	N/A	N/A	N/A	N/A	Order 8900.1, Chapter 1 section 4-32 or Aeronautical Information Manual (AIM) Chapter 1 – Air Navigation (see 1-1-19 and 1-1-20).	G, Z	-	NAV/SBAS
LPV approach (APV with SBAS)	C052 B030 for Alaska only	C052 B030 for Alaska only	C052	Note 1 C052	C052	AC 90-107	B,G, Z	-	Note 7 NAV/SBAS

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Data Comm Capabilities									
CPDLC	A056	A056	A056	A056	A056	AC 120-70	J1-J7	-	-
PBN Capabilities (Oceanic)									
NAT MNPS unrestricted	B036 + B039	B036 + B039	B036 + B039	B036 + B039	B036 + B039		X	-	-
RNP 10, mult. LRNS	B036	B036	B036	B036	B036	Order 8400.12 B036 provides the basic requirements for RNP10 and RNP4 using dual Long Range Navigation Systems installed and operational. Additional Ops Specs or LOA may be required depending on the airspace or special area of operation to be flown: Central East Pacific (CEP): B037 North Pacific (NOPAC): B038 Areas of magnetic unreliability: B040 North Polar: B055 Other Areas: Check B050 for applicability	R	-	PBN/A1
RNP 10, single LRNS	B054	B054	B054	B054	B054	Order 8400.12 B054 provides the requirements for RNP 10 using a single Long Range Navigation System in the limited areas defined.	R	-	PBN/A1
RNP 4	B036	B036	B036	B036	B036	Order 8400.33 B036 provides the basic requirements for RNP10 and RNP4 using dual Long Range Navigation Systems installed and operational. Additional Ops Specs or LOA may be required depending on the airspace or special area of operation to be flown: Central East Pacific (CEP): B037 North Pacific (NOPAC): B038 Areas of magnetic unreliability: B040 North Polar: B055 Other Areas: Check B050 for applicability	R	-	PBN/L1

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<i>PBN Capabilities (En Route and Approach)</i>									
<i>RNAV</i>	B034	B034	B034	Note 1 B034	B034	AC 90-45 B034 authorizes RNAV operation in the domestic U.S. For operations outside the domestic U.S.- including Gulf of Mexico- the relevant area must be authorized in B050 with B034 indicated. When RNAV operations are authorized per B034, the flight qualifies for PBN/B1-B6 as appropriate.	R	-	PBN/B1-B6
<i>B-RNAV</i>	B034	B034	B034	N/A	B034	AC 90-96A	R	-	PBN/B1-B6
<i>RNAV 5</i>	B034	B034	B034	Note 1 B034	B034	Part 91: When operating in a foreign state please consult the AIP for further information regarding operational requirements. (LOA may be required; See AIP)	R	-	PBN/B1-B6
<i>P-RNAV</i>	B034	B034	B034	B034	B034	AC 90-96A	R	-	PBN/D1-D4
<i>RNAV 2</i>	B035	B035	B035	Note 1 B035	B035	US Domestic Operations: AC 90-100	R Note 3,4	-	PBN/C1,C2 or C4 Note 3,4
<i>RNAV 1</i>	C063	C063	C063	Note 1 C063	C063	AC 90-100 AC 90-105	R Note 3,4	-	PBN/D1,D2 or D4 Note 3,4
<i>RNP 1</i>	C063	C063	C063	Note 1 C063	C063	AC 90-105	G,R Note 4	-	PBN/O1 or O2
<i>RNP AR approach</i>	C384	C384	C384	C384	C384	AC 90-101	G,R	-	PBN/T1 or T2

Notes

Note 1: Some Part 91 operations outside of the Domestic US NAS require an LOA, for others it is optional. Consult the Foreign State AIP for further information regarding operational requirements.

Note 2: Aircraft with A353 should file the SUR/ codes shown if certified for domestic U.S. operations per the indicated requirements. The SUR/ information is not required for international operations.

Note 3: In addition to PBN/ information, NAV/ information may optionally be filed in order to indicate RNAV capability by phase of flight (departure, enroute, arrival). This allows a filer to request RNAV procedures for only specific phases of flight. The AIM Section 5-1-9 contains instructions for filing RNAV capability in NAV/. Remember that when including NAV/, enter 'Z' in Field 10a.

Note 4: When filing a PBN/ code for RNAV or RNP, Field 10 must contain consistent capability information as follows:

If PBN/ indicates GNSS (e.g. C2)...	Field 10a must contain 'G'
If PBN/ indicates DME/DME (e.g. B3)...	Field 10a must contain 'D'
If PBN/ indicates VOR/DME (e.g. B4)...	Field 10a must contain 'D' and ('O' or 'S')
If PBN/ indicates DME/DME/IRU(e.g. D4)...	Field 10a must contain 'D' and 'I'

Note 5: Insert S1 in PBN/ for those aircraft that have an RNAV system approved for RNAV (GPS) or GPS approaches IAW AC 90-105, Appendix 1.

Note 6: Insert S2 in PBN/ for those aircraft that have an RNAV system approved for RNAV (GPS) or GPS approaches IAW AC 90-105, Appendix 1, and a barometric vertical navigation (baro-vnav) capability for vertical guidance approved in accordance with AC 90-105, Appendix 4.

Note 7: Insert "B" In Item 10a for aircraft with WAAS-GPS approach RNAV systems approved IAW AC 90-107. Operators may also include PBN codes S1 or S2 (only one) based on RNAV system approval. Please consult Airplane Flight Manual (AFM) or supplement to verify capability.

References

Approvals	Document	Title	Link- Always use current edition
	FAA Order 8900.1	Flight Standards Information Management System	http://fsims.faa.gov/PICResults.aspx?mode=EBookContents
	Vol. 3 Ch. 18 Section 3	Part A Operations Specifications- General	http://fsims.faa.gov/PICDetail.aspx?docId=8900.1,Vol.3,Ch18,Sec3
	Vol. 3 Ch. 18 Section 4	Part A Operations Specifications- En Route Authorizations and Limitations	http://fsims.faa.gov/PICDetail.aspx?docId=8900.1,Vol.3,Ch18,Sec4
	Vol. 3 Ch. 18 Section 5	Part A Operations Specifications- Airplane Terminal Instrument Procedures and Airport Authorizations and Limitations	http://fsims.faa.gov/PICDetail.aspx?docId=8900.1,Vol.3,Ch18,Sec5
	AC 20-138C	Airworthiness Approval of Positioning and Navigation Systems	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
GPS	FAA Order 8900.1 Vol. 4 Ch. 1 Sec. 4-31	FAA Approval of Global Positioning System (GPS) Equipment and Operations	http://fsims.faa.gov/PICDetail.aspx?docId=8900.1,Vol.4,Ch1,Sec2
GPS+ WAAS	FAA Order 8900.1 Vol. 4 Ch. 1 Sec. 4-32	FAA Approval of GPS/Wide Area Augmentation Navigation Systems (WAAS)	http://fsims.faa.gov/PICDetail.aspx?docId=8900.1,Vol.4,Ch1,Sec2
A056	AC 120-70	Operational Authorization Process for use of Data Link Communication System	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
A353	AC 90-114	Automatic Dependent Surveillance-Broadcast (ADS-B) Operations	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
B034	AC 90-45	Approval of Area Navigation Systems for use in the U.S. National Airspace System	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
	AC 90-96	Approval of U.S. Operators and Aircraft to Operate Under Instrument Flight Rules (IFR) in European Airspace Designated for Basic Area Navigation (B-RNAV) and Precision Area Navigation (P-RNAV)	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
B035 C063	AC 90-100	U.S. Terminal and En Route RNAV Operations	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
C063	AC 90-105	Approval Guidance for RNP Operations and Barometric Vertical Navigation in the U.S. National Airspace System	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
B036 B054	FAA Order 8400.12	Required Navigation Performance 10 (RNP 10) Operational Authorization	http://www.faa.gov/regulations_policies/orders_notices/index.cfm/go/document.information/documentID/1019682
B039	FAA Order 8400.33	Procedures for Obtaining Authorization for Rnp-4 Oceanic and Remote Area Operations	http://www.faa.gov/regulations_policies/orders_notices/index.cfm/go/document.information/documentID/14454
B046	AC 91-85	Authorization of Aircraft and Operators for Flight in Reduced Vertical Separation Minimum Airspace	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
C052	AC 90-105	Approval Guidance for RNP Operations and Barometric Vertical Navigation in the U.S. National Airspace System	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
	AC 90-107	Guidance for localizer performance with Vertical Guidance and Localizer	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset
C384	AC 90-101	Approval Guidance for RNP Procedures with Special Aircraft and Aircrew Authorization Required (SAAAR)	http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameset