AC 90-100 COMPLIANCE TABLE

APPROVED RNAV SYSTEMS FOR RNAV Q-ROUTES, TYPE A AND/OR TYPE B RNAV PROCEDURES.
SYSTEMS LISTED MEET THE PERFORMANCE REQUIREMENTS IN AC 90-100 UNLESS OTHERWISE STATED.

DIRECTIONS

1. For RNAV systems based on GPS:
    a. Locate your system and part number
    b. Confirm approval is indicated
2. For RNAV systems based on DME/DME or DME/DME/IRU RNAV:
    a. Locate your system and part number
    b. Confirm approval is indicated and confirm DME receiver part number is on list of approved DME receivers.
    c. Any Inertial Reference Unit/Inertial Reference System (IRU/IRS) may be used
3. NOTE: Approved GPS, DME/DME/IRU and DME/DME RNAV system performance provides the following capability:

APPROVAL / CAPABILITY MATRIX			
Approval based on:	TYPE A SID/STAR	TYPE B SID/STAR	RNAV "Q" ROUTE
GPS RNAV	YES	YES	YES
DME/DME/IRU (no GPS)	YES	YES	YES
DME/DME RNAV (no GPS or IRU)	YES	NO	YES

RNAV SYSTEMS AIRCRAFT MANUFACTURERS					
Manufacturer	**System**	**Part Number**	**Software version**	**Approval using GPS**	**Approval using DME/DME or DME/DME/IRU**
All systems must have an appropriate navigation database and a procedure to inhibit NOTAM'd DME facilities.					
Airbus	A300-600 A310 Sperry FMS	404.3914.936	I7	NO	YES

		404.3914.934	I7	NO	YES
		405.2510.955	ACARS	NO	YES
		405.2510.956	I7	NO	YES
		404.3914.939	I7	NO	YES
		405.2510-957	Pre-QIP	NO	YES
		405.2510-964	Pre-QIP	NO	YES
		405.2510-967	QIP	NO	YES
		405.2510-970	QIP	NO	YES
		405.2510-972	GPS	YES	YES
		405.2510-974	GPS	YES	YES
		405.2510-976	GPS2	YES	YES
		405.2510-978	GPS2	YES	YES
		405.2510-980	VNAV	YES	YES
		404.3914.935	I7	NO	YES
		405.2510.953	I7	NO	YES
		404.3914.938	I7	NO	YES
		405.2510-958	Pre-QIP	NO	YES
		405.2510-963	QIP - JAS	NO	YES
		405.2510-965	Pre-QIP	NO	YES
		405.2510-968	QIP	NO	YES
		405.2510-969	QIP - JAS	NO	YES
		405.2510-971	QIP	NO	YES

		405.2510-973	GPS	YES	YES
		405.2510-975	GPS	YES	YES
		405.2510-977	GPS2	YES	YES
		405.2510-979	GPS2	YES	YES
		4052510-981	VNAV	YES	YES
	A320 family Honeywell Legacy FMS	B398AAM0411	Std F8C104	YES	YES
		B398AAM0412	Std F8C105	YES	YES
		B398BAM0208	Std F8C104	YES	YES
		B546BAM0206	Std F8C7	YES	YES
		B398BAM0209	Std F8C105	YES	YES
		B398BCM0108	Std F8I7	YES	YES
		B398BCM0109	Std F8I105	YES	YES
		B546BCM0205	Std F8I7	YES	YES
		B546CCM0104	Std FA8I7	YES	YES
		B546CCM0105	Std FA8I701	YES	YES
		B546CCM0106	Std FA9I702	YES	YES
		B546CAM0102	Std FA8C7	YES	YES
		B546CAM0103	Std FA8C701	YES	YES
		B546CAM0104	Std FA9C702	YES	YES
	A320 family Honeywell Pegasus FMS	C13042AA01	Std P1C8	YES	YES
		C13042AA02	Std P1C9	YES	YES
		C13042AA03	Std P1C11	YES	YES
		C13042BA01	Std P1I8	YES	YES
	A330/A340 Honeywell	B490CAM0308	L10CD7	YES	YES

	Legacy FMS				
		B490BAM0310	L10B7	YES	YES
		B490AAM0313	L10A10	YES	YES
	A330/A340 Honeywell Pegasus FMS	C12858CA01	P1 or P2CD7	YES	YES
		C12858CA02	P2CD8	YES	YES
		C12858BA01	P1 or P2B7	YES	YES
		C12858BA02	P2B8	YES	YES
		C12858AA01	P1A8	YES	YES
		C12858AA02	P1A9	YES	YES
		C12858AA03	P2A10	YES	YES
		C12858EA03	P2E3	YES	YES
		C12858EA04	P2E4	YES	YES
		C12858EA05	P2E5	YES	YES
	A320 family Thales FMS	C13043AA01	S1C8	YES	YES
		C13043AA02	S1C10 or S2C10	YES	YES
		C13043AA03	S2C11 or S3C11	YES	YES
		C13043BA01	S1I8	YES	YES
		C13043BA02	S2I9 or S3I9	YES	YES
	A330/A340 Thales FMS	C13039AA01	T1A10	YES	YES
		C13039BA01	T1B8	YES	YES
		C13039CA01	T1CD8	YES	YES
	A300-600 / A310 Smiths FMS	745SUE1A1	LAT C3.0	NO	YES
		745SUE3A2	LAT 3	NO	YES

		745SUE3A2-1	LAT 3 A	NO	YES
		745SUE4B3	PERF 1B	NO	YES
		745SUE4B3-1	PERF 1B +	NO	YES
		745SUE4B4	PERF 2B	NO	YES
		745SUE4D4	PERF 2D	NO	YES
		745SUE4F4	PERF 2F	NO	YES
		745SUE-5H5	PERF 2H	NO	YES
		745SUE4A3	PERF 1A	NO	YES
		745SUE4A3-1	PERF 1A +	NO	YES
		745SUE4A4	PERF 2A	NO	YES
		745SUE4C4	PERF 2C	NO	YES
		745SUE-5G5	PERF 2G	NO	YES
	A300 GNLU Collins	822-1155-001	FFCC GNLU-910	YES	NO
		822-1155-100	B2/B4 GNLU-910	YES	NO
Boeing	B737-300 thru 900 and BBJ	--	U1.4 - 1.6 / U5 / U6 Series FMC	NO	YES
		--	U7.5 and U8.5 FMC	YES	YES
		--	U10 Series FMC	YES	YES
	747-400	--	FANS1 Load 11+	YES	YES
	(22 Nov 05)	--	Load 11+ (FANS 1 option not turned on)	YES	YES
	757/767	--	226/330/943 and on FMCs	NO	YES
		--	PIP Series FMC	NO	YES
		--	Pegasus FANS1 FMC	YES	YES

	777	--	Market A	YES	YES
		--	Market B	YES	YES
Boeing	MD-80	--	-925+	NO	YES. FMS –925, -926 and –927 equipped MD-80 are multi-DME capable (2-5 DME based solutions). The capabilities are further enhanced if IRUs are installed.
		--	-926 / -927	YES	YES. FMS –925, -926 and –927 equipped MD-80 are multi-DME capable (2-5 DME based solutions). The capabilities are further enhanced if IRUs are installed. MD-80's with -926/-927 FMCs have even greater capability if GNS is installed. Systems use VOR, DME, and LOC on approach when below 6000', but are considered in this category.

					Systems using GPS (-926/-927 FMC MD-80s) and IRUs, are considered in this category.
	MD-90	--	-901	NO	YES. FMS –925, -926 and –927 equipped MD-80 are multi-DME capable (2-5 DME based solutions). The capabilities are further enhanced if IRUs are installed. FMS-901 equipped MD-90s have IRS and are multi-DME capable (2-5 DME based solutions). Systems use VOR, DME, and LOC on approach when below 6000’, but are considered in this category.
		--	-920 / -921	YES	YES. FMS –925, -926 and –927 equipped MD-80 are multi-DME capable (2-5 DME based solutions). The capabilities are further enhanced if

					IRUs are installed. FMS-901 equipped MD-90s have IRS and are multi-DME capable (2-5 DME based solutions). Systems use VOR, DME, and LOC on approach when below 6000', but are considered in this category.
	MD-10	--	-901	YES	YES. Systems use VOR, DME, and LOC on approach when below 6000 ft, but are considered in this category.
		--	-902	YES	YES. Systems use VOR, DME, and LOC on approach when below 6000 ft, but are considered in this category.
	MD-11	--	-911 / -912+	YES	YES. Systems use VOR, DME, and LOC on approach when below 6000 ft, but are considered in this category.

Embraer ERJ-135/145 and Legacy. (12 August 2005)	Honeywell FMS NZ2000	7018879-03014 MOD B	5.2B	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU (HG2021GD02 or HG2021GD03)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
	Honeywell FMS NZ2000	7018879-03014 MOD C	5.2C	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU (HG2021GD02 or HG2021GD03)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
	Honeywell FMS NZ2000	7018879-03014 MOD D	5.2D	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU (HG2021GD02 or HG2021GD03)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
	Honeywell FMS NZ2000	7018879-03014 MOD E	5.2E	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU (HG2021GD02 or HG2021GD03)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
	Honeywell FMS NZ2000	7018879-03014 MOD F	5.2F	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU (HG2021GD02 or HG2021GD03)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
	Honeywell FMS NZ2000	7018879-02006 MOD C	4.8C	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU	YES, conditional on pilot entry of NOTAM navaids on

				(HG2021GD02 or HG2021GD03)	the FMS NOTAM page.
	Honeywell FMS NZ2000	7018879-02006	4.8A	YES, TSO-C115B, TSO-C129A B1/B2/C1/C2 - GPS GNSSU (HG2021GD02 or HG2021GD03)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
Embraer ERJ-145. (Predictive RAIM with Universal Offline Flight Planning.) (12 August 2005)	Universal UNS-1K	1116-42-1116	603	YES, TSO-C115B, TSO-C129A A1/B1/C1	NO
	Universal UNS-1K	1116-42-1116 MOD 604	604	YES, TSO-C115B, TSO-C129A A1/B1/C1	NO
Embraer ERJ-170-100, ERJ-170-200, ERJ-190-100, ERJ-190-200.	Honeywell Primus Epic FMS.	--	--	YES (TSO-C115B performance and TSO-C129A B2/C2 (GPS Part No. 245-604067-001)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
Gulfstream G550/G500 G450/G350	Honeywell FMS Primus Epic (PlaneView)	EB7031236	-00301 and subsequent	YES (TSO-C115B performance and TSO-C129 C1) GPS module part number 245-601736	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page
Gulfstream C37B	Honeywell FMS Primus Epic (PlaneView)	EB7031236	-00301 and subsequent	YES (TSO-C115B performance and TSO-C129 C1) GPS module part number 245-601736	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM

					page
Gulfstream G-V	Honeywell NZ-2000 (IC-800E version)	7017300-560XX and subsequent	NZ 4.7, 4.7A, 4.7B, 5.0, 5.0A,5.2, 5.2A, 6.0 or later version	YES, TSO-115B performance and C-129, C1, GPS part number HG2021GB02, HG2021GD02, HG20221GD03 and 260179591-101	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page
Gulfstream C37A	Honeywell NZ-2000 (IC-800E version)	7017300-560XX and subsequent	NZ 4.7, 4.7A, 4.7B, 5.0, 5.0A, 5.2, 5.2A, 6.0 or later version	YES, TSO-115B performance and C-129, C1, GPS part number HG2021GB02, HG2021GD02, HG20221GD03 and 260179591-101	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page
Gulfstream G-IV	Honeywell NZ-900 (NZ-920 version)	7004402-977	NZ 9402	YES, TSO-115B performance and C-129, C1, GPS part number HG2021GB02, HG2021GD02, HG20221GD03 and 260179591-101	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page
	Honeywell FMZ – 2000	7018879-0100X	NZ 4.0, 4.0A, 4.0B or 4.1A, 4.1B, 4.1C, 4.1D, 4.1E, 4.1F, 4.1G	YES, TSO-115B performance and C-129, C1, GPS part number HG2021GB02, HG2021GD02, HG20221GD03 and 260179591-101	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page
	Honeywell FMZ – 2000	7018879-030XX	NZ 5.0, 5.0A, 5.0B, 5.0C, 5.0D, 5.2A, 5.2B, 5.2C, 5.2D,	YES, TSO-115B performance and C-129, C1, GPS part number	YES, conditional on pilot entry of NOTAM navaids on

			5.2E, 5.4A, 5.4B, 5.4C, 5.7, 6.0, 6.0A or later	HG2021GB02, HG2021GD02, HG20221GD03 and 260179591-101	the FMS NOTAM page
Gulfstream C20 models A through H	Honeywell FMZ-2000	7018879-030XX	NZ 5.0A, 5.2A, 5.2B and 5.7A	YES, TSO-115 and C-129A with Honeywell GPS unit HG2021GD02 or Trimble GPS unit model TA-12, part number 24835-10	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page
Gulfstream G200	Rockwell Collins FMS-6000	822-0868-026 and -043	ALL	Yes, with GPS-4000(X) installed and approved for IFR use IAW AC 20-130A and no GPS satellites scheduled to be out of service and the FMS is receiving usable signals. Must obtain predictive RAIM for route / procedure if one or more satellites is out of service.	NO
	Rockwell Collins FMS-6100	822-0868-046 and -073	ALL	Yes, with GPS-4000(X) installed and approved for IFR use IAW AC 20-130A and no GPS satellites scheduled to be out of service and the FMS is receiving usable signals. Must obtain predictive RAIM for route / procedure if one or	NO

				more satellites is out of service.	
	Universal UNS-1C	1017-3X-XXX and subsequent	600.X and subsequent	YES (TSO-C115B and TSO-C129A Class A1/B1/C1) Must use Universal Flight Planning Program P/N K12037-6 to obtain predictive RAIM for route / procedure if one or more satellites is out of service.	NO
Gulfstream G100	Universal UNS-1C	1017-3X-XXX and subsequent	600.X and subsequent	YES (TSO-C115B and TSO-C129A Class A1/B1/C1) Must use Universal Flight Planning Program P/N K12037-6 to obtain predictive RAIM for route / procedure if one or more satellites is out of service.	NO
	Honeywell (Allied Signal) GNS-XLS	17960-XXXX-XXXX	ALL	**See Honeywell GNS-XLS entry, stating:** System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell	NO

				by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	
RNAV SYSTEMS AVIONICS MANUFACTURERS					
Garmin	GPS 155 GPS 165 GNC 300	All	All	**No**, TSO-C129 Class A1. Unable to automatically execute leg transitions and maintain tracks consistent with Course to Fix (CF) and Direct to Fix (DF) legs.	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.
	GPS 155XL GNC 300XL	All	All	**No**, TSO-C129a Class A1. Unable to automatically execute leg transitions and maintain tracks consistent with Course to Fix (CF) and Direct to Fix (DF) legs.	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.

	GPS 400 GNC 420 GNC 420A GNS 430 GNS 430A	All	All	**Yes**, TSO-C129a Class A1, system should be installed and approved for IFR use IAW AC 20-138 or AC 20-138A. (The AFMS typically provides an indication of installation compliance.) "Predict" software version 2.00 or later may be used to predict GPS Integrity (RAIM) availability when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in AC 90-100 paragraph 8.a.(5). "Predict" software operates on IBM-compatible PCs running Microsoft Windows. "Predict" may be obtained from www.garmin.com by downloading the Free 400 or 500 Series Simulator under the Panel Mount Avionics products.	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.

				Instructions for using "Predict" also may be downloaded from the Free Simulator page.	
	GNS 480	All	All	**Yes,** TSO-C146a. Unit must be installed IAW with STC SA01229SE or the approved installation manual. GPS Integrity (RAIM) availability prediction is not required for a WAAS (TSO-C146a) receiver.	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.
	GPS 500 GPS 500 TAWS GNS 530 GNS 530 TAWS GNS 530A GNS 530A TAWS	All	All	**Yes**, TSO-C129a Class A1, system should be installed and approved for IFR use IAW AC 20-138 or AC 20-138A. (The AFMS typically provides an indication of installation compliance.) "Predict" software version 2.00 or later may be used to predict GPS Integrity (RAIM) availability when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.

				service as described in paragraph 8.a.(5) of AC 90-100. “Predict” software operates on IBM-compatible PCs running Microsoft Windows. “Predict” may be obtained from www.garmin.com by downloading the Free 400 or 500 Series Simulator under the Panel Mount Avionics products. Instructions for using “Predict” also may be downloaded from the Free Simulator page.	
	G1000 Systems	All	All	**Yes**, TSO-C129a Class A1. “Predict” software version 2.00 or later may be used to predict GPS Integrity (RAIM) availability when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC	N/A. “N/A” in the “DME/DME(/IRU) Eligibility” column means that the listed model does not include any DME/DME navigation function.

				90-100. “Predict” software operates on IBM-compatible PCs running Microsoft Windows. “Predict” may be obtained from www.garmin.com by downloading the Free 400 or 500 Series Simulator under the Panel Mount Avionics products. Instructions for using “Predict” also may be downloaded from the Free Simulator page.	
Honeywell (11 August 2005)	FMZ-2000, FMZ-920, Epic FMS	All	All	YES (TSO-C115B performance and TSO-C129 C1 (GPS part number HG2021GB02, HG2021GD02, HG2021GD03 and 26017591-101)	YES, conditional on pilot entry of NOTAM navaids on the FMS NOTAM page.
Honeywell (27 Oct 2005)	KLN-89B	066-01148-010x	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software	N/A. “N/A” in the “DME/DME(/IRU) Eligibility” column means that the listed model does not include any DME/DME

				version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	navigation function.
	KLN-90A	066-04031-0x11	All	**No**, TSO-C129 Class A2 only	N/A.
	KLN-90B	066-04031-xx2x	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM)	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.

				when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	
	KLN-94	069-01034-xxxx	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any DME/DME navigation function.
	KLN-900	066-04034-xxxx	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not

				SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	include any DME/DME navigation function.
	KNS 660 / KLN 670	066-4011-xx 066-4018-xx 066-4019-xx 066-4022-xx 066-4030-xx	All	**No**, Non-TSO GPS. "Non-TSO GPS" means that the GPS sensor was not compliant with either TSO-C129 or TSO-C129a. These were typically approved as part of a multi-sensor TSO-C115 or TSO-C115a FMS.	**No**
	GNS-500	10050-6-5M-xxxx 10050-8-5M-xxxx	All	**No**, Non-TSO GPS. "Non-TSO GPS" means that the GPS sensor was not compliant with either TSO-C129 or TSO-C129a. These were	N/A. "N/A" in the "DME/DME(/IRU) Eligibility" column means that the listed model does not include any

				typically approved as part of a multi-sensor TSO-C115 or TSO-C115a FMS.	DME/DME navigation function.
	GNS-1000	FMC: 30150-0x-0x RPU: 30050-0707-xxxx 30050-0808-xxxx GPU: 19100-0101	All	**No**, Non-TSO GPS. "Non-TSO GPS" means that the GPS sensor was not compliant with either TSO-C129 or TSO-C129a. These were typically approved as part of a multi-sensor TSO-C115 or TSO-C115a FMS.	**No**
	GNS-X	NMU: 14141-0101-xxxx 14141-0202-xxxx 14141-0203-xxxx 14141-0220-xxxx 14141-0240-xxxx 14141-0251-xxxx 14141-0252-xxxx 14141-0253-xxxx 14141-0321-xxxx 14141-0345-xxxx 14141-0523-xxxx RPU: 30050-0808-xxxx 30050-0909-xxxx GPU: 19100-0101	All	**No**, Non-TSO GPS. "Non-TSO GPS" means that the GPS sensor was not compliant with either TSO-C129 or TSO-C129a. These were typically approved as part of a multi-sensor TSO-C115 or TSO-C115a FMS.	**No**
	CDU-XLS	CDU-XLS System: 18420-0101-xxxx	All	System **ONLY** approved for RNAV Q-routes and	**No**

		NMU: 14141-0624-xxxx		Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	
	GNS-XES	17450-0101-xxxx 17450-0203-xxxx	All	**No**, Non-TSO GPS. "Non-TSO GPS" means that the GPS sensor was not compliant with either TSO-C129 or TSO-C129a. These were typically approved as part of a multi-sensor TSO-C115 or TSO-C115a FMS.	**No**
	GNS-XES	17450-0305-xxxx 17450-0307-xxxx 17450-0406-xxxx	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure	**No**

				Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	
	GNS-XLS	17960-xxxx-xxxx	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to	**No**

				predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100. 8.a.(5) of AC 90-100.	
	GNS-XL	18355-0101-xxxx	All	System **ONLY** approved for RNAV Q-routes and Obstacle Departure Procedures, **NOT** RNAV Type A and Type B SID/STAR procedures. PreFlight Software version 2.0 for IBM-compatible PCs running Microsoft Windows is available from Honeywell by ordering part number 050-03462-0001. This software may be used to predict the availability of GPS Integrity (RAIM) when GPS NOTAMs indicate that GPS Satellites are scheduled to be out of service as described in paragraph 8.a.(5) of AC 90-100.	**No**
Rockwell Collins	FMS-3000,	--	--	YES, with GPS-4000( )	NO

(21 July 2005)	FMS-4200, FMS-5000, FMS-6000, FMS-6100			installed and approved for IFR use IAW AC 20-130A and the FMS is receiving useable GPS signals while operating in a radar environment or having checked for RAIM availability.	
Universal (13 July 2005) All GPS approvals with Universal Flight Planning program (P/N K12037-6) for RAIM prediction	UNS-1B*Plus*	1190-XX-2XXX	60X.X, 70X.X	YES. (TSO-C115B, with GPS-1000, GPS-1000A, or GPS-1200 C-129/129A B1 sensor only)	NO
	UNS-1C	1017-3X-XXX	700.X, 701.X	YES. (TSO-C115B & C129 Class A1/B1/C1)	NO
	UNS-1C	1017-3X-XXX	702.X, 703.X, 704.X, 705.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1C	1017-4X-XXX	600.X, 601.X	YES. (TSO-C115B & C129 Class A1/B1/C1)	NO
	UNS-1C	1017-4X-XXX	602.X, 603.X, 604.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1C	1017-6X-XXX	604.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1C	1017-7X-XXX	704.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Csp	1019-3X-XXX	700.X, 701.X	YES. (TSO-C115B & C129 Class A1/B1/C1)	NO

	UNS-1Csp	1019-3X-XXX	702.X, 703.X, 704.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Csp	1019-4X-XXX	600.X, 601.X	YES. (TSO-C115B & C129 Class A1/B1/C1)	NO
	UNS-1Csp	1019-4X-XXX	602.X, 603.X, 604.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Csp	1019-6X-XXX	604.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Csp	1019-7X-XXX	704.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1C*Plus*	10172-3X-XXX, 10172-7X-XXX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1C*Plus*	10172-4X-XXX, 10172-6X-XXX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Csp*Plus*	10192-3X-XXX, 10192-7X-XXX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Csp*Plus*	10192-4X-XXX, 10192-6X-XXX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1D	1192-0X-XXX1XX	600.X, 601.X	YES. (TSO-C115B & C129 Class A1/B1/C1)	NO
	UNS-1D	1192-0X-XXX1XX	602.X, 603.X, 604.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1D	1192-3X-XXX1XX	700.X, 701.X	YES. (TSO-C115B & C129 Class A1/B1/C1)	NO
	UNS-1D	1192-3X-XXX1XX	702.X, 703.X, 704.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1D	1192-0X-XXX2X	604.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1D	1192-3X-XXX2X	704.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1D*Plus*	11922-0X-XXX1XX,	80X.X	YES. (TSO-C115B &	NO

		11922-0X-XXX2XX		C129A Class A1/B1/C1)	
	UNS-1D*Plus*	11922-3X-XXX1XX, 11922-3X-XXX2XX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1E	2017-3X-XXX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1E	2017-4X-XXX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Esp	2019-3X-XXX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1Esp	2019-4X-XXX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1F	2192-0X-XXX1XX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1F	2192-3X-XXX1XX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1K	1116-3X-XXXX	70X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1K	1116-4X-XXXX	60X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1K	1116-6X-XXXX	604.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1K	1116-7X-XXXX	704.4 and later	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1K*Plus*	11162-3X-XXXX, 11162-7X-XXXX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1K*Plus*	11162-4X-XXXX, 11162-6X-XXXX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1L	2116-3X-XXXX	90X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO
	UNS-1L	2116-4X-XXXX	80X.X	YES. (TSO-C115B & C129A Class A1/B1/C1)	NO

Last item					
APPROVED DME					
Manufacturer	**DME**	**Part Number**	**Software version**	**Notes**	
Rockwell Collins (20 July 2005)	DME-700, DME-900,	--	--	Certified to TSO-C66A but meeting TSO-C66C performance	
Rockwell Collins (30 Jan 2006)	860E-5	622-2921-001/-002/-004/-005/-006		Certified to TSO-C66A but meeting TSO-C66C performance	
Rockwell Collins (20 July 2005)	DME-442, DME-42	--	--	Certified to TSO-C66B but meeting TSO-C66C performance	
	DME-4000	--	--	Certified to TSO-C66C	
Honeywell (11 August 2005)	RNZ-850, 850B, 851B (Each model contains a DM-850 DME module)	75100100-VAR	All	Marked TSO-C66B but certified to DO-189, post 1989 performance.	
	DM-855	7510184-VAR	All	Certified to TSO-C66C but meeting DO-189, post 1989 performance.	
(5 January 2006)	KDM-7000	066-01019-0023, 066-01019-0063	-- --	Meets TSO-C66c performance	
Last item					