

Differential Global Positioning System Validation Report & Checklist

Applicant:	
<i>Latest Update:</i> <i>Date Initiated:</i> <i>Date Completed:</i>	STATUS NOTES:
Points-of-contact:	
<i>Address:</i> 	<i>Telephone:</i> <i>FAX:</i> <i>Email:</i>
<i>Subject Aircraft for Validation:</i>	
<i>Aircraft to be Certified:</i>	
DGPS Revalidation? <input type="checkbox"/> Yes <input type="checkbox"/> No	
*Notes:	
GPS-Related Instrumentation:	
Equipment setup and data collection procedure documentation? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	<i>GPS Base Station Receiver Manufacturer and Model:</i>
	<i>GPS Base Station Antenna Manufacturer and Model:</i>
	Choke Ring: <input type="checkbox"/> Yes <input type="checkbox"/> No
	<i>GPS Rover Receiver Manufacturer and Model:</i>
	<i>GPS Rover Antenna Manufacturer and Model:</i>
	<i>Notes:</i>
Type of Solution:	
	<input type="checkbox"/> Dual Frequency (L1/L2)
	<input type="checkbox"/> Single Frequency (L1)

		Multipath Test Performed: <input type="checkbox"/> Yes <input type="checkbox"/> No
		Notes (e.g., angular cutoff implemented, multipath in accordance with?):
Processing Method:		
Raw, uncorrected data saved separately?		<input type="checkbox"/> Yes <input type="checkbox"/> No
GPS coordinates maintain minimum significant digits?		<input type="checkbox"/> Yes <input type="checkbox"/> No
<ul style="list-style-type: none"> • Decimal Degrees: 6 decimal places • Deg, Min, Sec: 2 decimal places 		
	<input type="checkbox"/> Real Time (Local base station)	Notes (e.g., real-time guidance implemented):
	<input type="checkbox"/> Real Time (Regional base station)	
	<input type="checkbox"/> Post Test (Local base station)	
	<input type="checkbox"/> Post Test (Regional base station)	
	<input type="checkbox"/> Other:	
Dynamic System Test:		
	<input type="checkbox"/> FAA Technical Center	Notes:
	<input type="checkbox"/> Laser	
	<input type="checkbox"/> Ground Radar	
	<input type="checkbox"/> Theodolite	
	<input type="checkbox"/> Differential GPS	
	<input type="checkbox"/> Differential GPS & Radar Altimeter	
	<input type="checkbox"/> Microwave	
	<input type="checkbox"/> APOP@ (Photographic Overhead Positioning)	
	<input type="checkbox"/> Video	
	<input type="checkbox"/> Other:	
<input type="checkbox"/> Documentation of pre-test DGPS check. (Process in place to confirm accuracy of DGPS system before actual testing begins?):		

Differential Solution Quality:	
	Notes (e.g., applicant checks and verifies acceptable solution quality limits):
Coordinate Transformation:	
<input type="checkbox"/>	WGS-84 Coordinate System
<input type="checkbox"/>	GPS Manufacturer's Transformation Software
<input type="checkbox"/>	Applicant's Transformation Software
	Version Identifier/Date:
	Version:
	Notes (e.g., simplified or exact equations used):
Differences, Special Corrections, Exemptions, Unique Methods, Limitations, etc. (e.g. site specific validation, system used for test site survey):	