Version 3.2

APPLICATION FOR PRN CODE ASSIGNMENT

Part 1

INSTRUCTIONS

Complete application and submit via email to smc.gp.prn@us.af.mil. Attach supporting documentation to the email. The GPS PRN Coordination Office (PRNCO) will confirm receipt of application within 3 weeks. If no response is received, use the alternate contact information in the PRN Code Assignment Process. Completeness of application information will expedite the review process.

Alternate Address: GPS PRN Coordination Office, PNT Mission Integration, 483 North Aviation Blvd, El Segundo, CA 90245-4659, USA

APPLICANT INFORMATION

1. FIRST NAME
2. FAMILY NAME
3. MIDDLE NAME
4. APPLICATION DATE
5. TITLE
6. ORGANIZATION
7. E-MAIL(S)
8. TELEPHONE
9. FAX
10. ASSIGNMENT LETTER RECIPIENT ADDRESS
    ATTN
    Street
    City, State, Zip Code
    Country

SYSTEM INFORMATION

11. SYSTEM NAME
12. ICAO SBAS ID (or N/A)
13. ORGANIZATION/DEPARTMENT
14. SPONSORING GOVERNMENT
15. ITU filing info (or other regulatory agency)
15a. Date
15b. Reference Info

PRN CODE REQUEST INFORMATION

Please fill out the following info for each PRN code set requested. (If more than 4 PRN codes, attach 16a.-16h. info in separate document)

16a. Requested PRN Code	16b. Signals	16c. Satellite Name	16d. GLAN (degrees) *if GEO	16e. Notification Need Date	16f. Test Broadcast Dates		16g. Operational Service Broadcast Dates		16h. Requested Expiration
					Start	End	Start	End	

17. JUSTIFICATION FOR REQUEST. Please explain why the requested quantity and type of PRN codes are required.

18. USERS. Please explain who the users of this service will be (geographical region, constituents, certified aviation, etc.)

19. OTHER COMMENTS/SPECIAL REQUESTS

GEO – Geosynchronous
GLAN – Geographic Longitude of the Ascending Node
ICAO – International Civil Aviation Organization
ITU – International Telecommunication Union
PRN – Pseudorandom Noise
SBAS – Satellite Based Augmentation System

CONTINUE TO NEXT PAGE (PART 2). COMPLETE PART 2 FOR EACH BROADCASTING SATELLITE.

Version 3.2

APPLICATION FOR PRN CODE ASSIGNMENT

Part 2

INSTRUCTIONS

Complete this page for each broadcasting satellite Annotate the desired PRN Code in 20a.

SATELLITE ORBIT PARAMETERS

Please fill out the following info for each satellite

20a. PRN Code(s) Broadcasted

20b. GLAN (degrees) *GEO only*

20c. SEMI-MAJOR AXIS, SMA (meters)

20d. RAAN (degrees)

20e. INCLINATION, i (degrees)

20f. ARGUMENT OF PERIGEE (degrees)

20g. ECCENTRICITY, e

20h. MEAN ANOMALY (degrees)

20i. UTC TIME OF EPOCH

RADIOFREQUENCY COMPATIBILITY

21. MAXIMUM RECEIVED ISOTROPIC POWER (RIP) ON SURFACE OF EARTH (dBW)

21a. L1 C/A 21b. L1 Cp 21c. L1 Cd 21d. L2 CL 21e. L2 CM 21f. L5 I5 21g. L5 Q5

22. RIP ON SURFACE OF EARTH AS A FUNCTION OF ELEVATION

Please provide RIP for each applicable signal in dBW

Elevation (degrees)	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
L1 C/A																				
L1 Cp																				
L1 Cd																				
L2 CL																				
L2 CM																				
L5 I5																				
L5 Q5																				

23. RIP REMARKS

24. INTERFERENCE ANALYSIS

Describe measures taken to avoid interference. If broadcasting L5, provide evidence of participation in ITU Resolution 609 Meetings.

ADDITIONAL INFORMATION FOR TERRESTRIAL TRANSMITTERS (e.g. Pseudolites)

25. POWER LEVELS AND MODE OF OPERATIONS
(Effective Isotropic Radiated Power, dBW)

26. TRANSMIT ANTENNA GAIN PATTERN

27. PULSED MODE 27a. PULSE DUTY CYCLE 27b. PULSE REPITITION RATE

ATTACHMENTS

The following attachments are required to process this application.

- Program overview/schedule update
- Letter from civil aviation authority stating compliance to ICAO SARPs and date of operational service (for SBAS PRN 120-158 applicants)

GEO – Geosynchronous
GLAN – Geographic Longitude of the Ascending Node
ICAO – International Civil Aviation Organization
PRN – Pseudorandom Noise
RAAN – Right Ascension of the Ascending Node
SARPS – Standards and Recommended Practices
SBAS – Satellite Based Augmentation System
UTC – Universal Coordinate Time