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Change Topic: PRNs 211-1023 Mission Assignments

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This change package accommodates the text changes to support the proposed solution (see table below) within the public Signals-in-Space (SiS) documents. All comments must be submitted in Comments Resolution Matrix (CRM) form.

The columns in the WAS/IS table following this page are defined below:

Section Number: This number indicates the location of the text change within the document.

Proposed Heading: Contains existing and/or proposed changes to section titles and/or the titles to new sections

(WAS) <Document Title>: Contains the baseline text of the impacted document.

Proposed Object Text: Contains proposed changes to baseline text.

<i>PROBLEM STATEMENT:</i>
Currently, PRNs 211-1023 are not assigned to PNT missions. The impact of not explicitly assigning this PRN range to PNT missions is: 1) Other GNSS systems might assume the USAF will not utilize PRNs 211-1023 for GPS missions since the IS-GPS-200 only lists the sequence of PRNs up to 210 and does not mention or assign PRNs 211-1023 to PNT missions. Therefore, other GNSS systems may request to utilize these PRNs for their missions.
<i>SOLUTION: (Proposed)</i>
Reserve PRNs 211-1023 for USAF GPS missions.

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Section	IS-GPS-705 RevC (5 Sep 2012) L5 SS and Nav User Segment Interfaces	Proposed Changes	Rationale
6.3.4	<p>Among all unique L5-code sequences that could be generated using different initial states as described in Section 3.2.1.1, 126 sequences (63 I5 and 63 Q5) are selected and assigned in Table 3-Ia and Table 3-Ib. An additional 294 sequences (147 I5 and 147 Q5) are selected and assigned with PRN numbers in the below Table 6-II. Any assignment of an L5 PRN number and its code sequence for any additional SV and/or other L5 signal applications, such as Satellite Based Augmentation System (SBAS) satellite signals, will be selected from the sequences of Table 6-II.</p>	<p>Among all unique L5-code sequences that could be generated using different initial states as described in Section 3.2.1.1, 126 sequences (63 I5 and 63 Q5) are selected and assigned in Table 3-Ia and Table 3-Ib. An additional 294 sequences (147 I5 and 147 Q5) are selected and assigned with PRN numbers in the below Table 6-II. Any assignment of an L5 PRN number and its code sequence for any additional SV and/or other L5 signal applications, such as Satellite Based Augmentation System (SBAS) satellite signals, will be selected from the sequences of Table 6-II. PRN sequences numbered 211-1023 are reserved for internal system use and are therefore not provided in this section.</p>	<p>Other GNSS systems might assume the USAF will not utilize PRNs 211-1023 for GPS missions since the IS-GPS-200 only lists the sequence of PRNs up to 210 and does not mention or assign PRNs 211-1023 to PNT missions. Therefore, other GNSS systems may request to utilize these PRNs for their missions.</p>