

**WAAS Technical Report**  
**William J. Hughes Technical Center**  
**Pomona, New Jersey**  
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***DR# 23: High numbers of SV alerts in both AORW and POR.***  
***GPS Week/Day: Week 1351 Day 4 (12/1/2005)***

**Discussion:**

On week 1351 Day 4, both AORW and POR were seeing 57 SV alerts each. All the alerts occurred between the GPS time 350655 (1:24:16 GMT) and 354376 (2:26:17 GMT). The alerts changed only the UDREI of PRN 134 from 13 to 14 for both AORW and POR. During the time of each alert, AORW and POR were receiving 4 to 5 consecutive message Type 24. This anomaly had no effect on the WAAS SIS performance in either PA or NPA.

The parameters information on POR is included in the PowerPoint presentation attachment 1 below. According to the information and plots in the attachment, there were no loss of Geo loop lock or doppler spikes on Week 1351 day 4.

Attachment 1



Table 1: AORW SV Alert

PRN	Start Time	Stop Time	Previous UDREI	Current UDREI	Alert	Message Type
28	351607	351610	14	14	No	T24
29	351607	351610	6	6	No	T24
30	351607	351610	5	5	No	T24
31	351607	351610	14	14	No	T24
122	351607	351610	10	10	No	T24
<b>134</b>	<b>351607</b>	<b>351610</b>	<b>13</b>	<b>14</b>	<b>Yes</b>	<b>T24</b>

**Conclusion**

AORW and POR were having unusually high numbers of alerts on the day mention above. Table 1 shown one example of the SV alert that happened in AORW where the UDREI of PRN 134 was changed from 13 to 14. The parameters information indicates that there were no unusual observations on POR on this day. Further investigation is needed and this report will be updated after the investigation is complete.