







Glenn Research Center









PIMS ISS Acceleration Handbook Date last modified 2014-10-28

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GLACIER Start-Ups Qualify





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GLACIER Start-Ups Source:





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Description



4			
	Sensor	SAMS 121f05 500.0 sa/sec, 200.0 Hz	
	Location	JPM1F5, ER4, Drawer 2	
	Plot Type	Cumulative RMS vs. Frequency	
•	 Notes: This plot of cumulative RMS versus frequency shows 2 traces: (1) a blue trace before both GLACIER-1 and GLACIER-3 were operating, and (2) a red trace during both GLACIER-1 and GLACIER-3 operations. Note from these traces derived from SAMS sensor 121f05 measurements in EXPRESS Rack 4 in the Japanese laboratory module (the JEM) that the GLACIER signatures with the sensor in the sensor is the sensor in the sensor is the sensor in the sensor in the sensor is the sensor is the sensor in the sensor is the sensor is		
	the Columbus module or the US Lab to the JEM.		

Regime:	Vibratory
Category:	Equipment
Source:	GLACIER Start-Ups





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GLACIER Start-Ups Ancillary Notes

To summarize the impact of GLACIER ops, we saw that GLACIER-1 in ER2 Locker 4 in USL showed up with strong, narrowband spectral components at 60, 120, and 180 Hz in the nearby SAMS sensor 121f03 data. Likewise, the GLACIER-3 in ER3 Locker 2 in COL registered with very strong, narrowband spectral components at 60, 120, and 180 Hz in the SAMS sensor 121f08 data, which was mounted very close to this GLACIER-3. We saw no noticeable propagation from either GLACIER-1 or from GLACIER-4 to the SAMS sensor 121f05 in the JEM.

We also quantified the impact of these GLACIERS at the nearby SAMS sensor locations using cumulative RMS versus frequency plots. The large steps at 60, 120, and less so at 180 Hz we attribute to the fundamental frequency of the linear pump that works to cool GLACIER contents.



