Momentum dumps during science

A momentum dump during a science observation causes large attitude errors and high rates:

![Graph 1: Obsid 6687 att. error (pitch=black yaw=red)]

![Graph 2: Obsid 6687 rate (pitch=black yaw=red)]
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Key problem with high rates is motion during the ACIS frame integration (up to 3.2 sec)
Momentum dumps during science observations produce unacceptable degradation of ACIS image quality.

**Mitigation**

- MP Guideline requiring that science observation time not include the dump interval + 60 seconds
- Ground aspect pipeline automatically marks this interval as bad quality.
  - The 60 second pad is not currently included, so an enhancement request will be made.