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## MEMORANDUM

**To:** Mike Desai  
**From:** John M. Nelson  
**Date:** 12 May 2003  
**Subject:** How the sash transmitter module operates

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### Description of Operation:

It monitors the status of the sash opening through the use of a bar magnet and a series of magnetically actuated (reed style) switches. When the sash window is opened or closed, the position of the bar magnet relative to the reed switches changes, causing more (or less) switches to close. On detecting a change in the state of those switches, the system will automatically transmit a single message (that takes less than two seconds) containing its identity, and a code for how many switches have been activated. To ensure system integrity, it will also transmit a message indicating its status once every hour.

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**CC:** Techn: