

## Re: IS: Follow the Current – WAS: Apollo One, the FBI, and Scott Grissom

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**From:** LaDonna Wyss (*hpywife927\_at\_yahoo.com*)

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derek11963@nospamyahoo.com (Derek Lyons) wrote in message news:<40d0b378.34449111@supernews.seanet.com>...

- > *hpywife927@yahoo.com (LaDonna Wyss) wrote:*
- > >2. *No upstream impedence. The switch was the source of the short;*
- > >*everything downstream was affected by the resultant voltage*
- > >*transients.*
- >
- > *The problem is... While the behavior of other equipment on the bus*
- > *(the term downstream is incorrect) is consistent with voltage*
- > *transients , a hard short produces a standing change in voltage and*
- > *current flow, not transients. (If it's not a standing change, its by*
- > *definition not a hard short.) This standing change can be masked*
- > *however by the effects of switching other equipment on and off the*
- > *bus.*
- >
- > *Parenthetically I find it hard to credit that a hard short in a*
- > *thruster switch would not cause the master breakers on the bus to*
- > *perform their intended functions and drop the bus entirely. (I don't*
- > *recall however if their were master breakers.)*
- >
- > *Transients are indicative of 'arcing and sparking', which is*
- > *consistent with the known problems in the cabling inside the CM.*
- > *Transients are also a common condition when you have a variable short*
- > *or multiple variable shorts to ground (without arcing), again this is*
- > *consistent with the known problems with the cabling. Combine these*
- > *with the transient effects of switching on and off other equipment on*
- > *the bus and you can increase the effects of these cabling problems by*
- > *altering the current and voltage flow.*
- >
- > *D.*

That's exactly my point. Yes, this was a "hard short", but you have to take into consideration its existence long before the test started that afternoon. When the test did start, everytime the crew powered up a system on the same bus that system exhibited problems. The Block I spacecraft was not nearly as protected as it should have been, nor

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as protected as systems are today.

So what you are describing here is exactly what I have been talking about.

LaDonna