

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

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From: Derek Lyons (derek11963_at_nospamyahoo.com)

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hpywife927@yahoo.com (LaDonna Wyss) wrote:

>2. *No upstream impedance. 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, it's 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 they 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.

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Touch–twice life. Eat. Drink. Laugh.