

Re: Apollo1 vs Apollo2

Source: <http://sci.tech-archive.net/Archive/sci.space.history/2005-12/msg00276.html>

- *From:* henry@xxxxxxxxxxxxx (Henry Spencer)
 - *Date:* Wed, 7 Dec 2005 15:26:39 GMT
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In article <1133560851.680959.112500@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, Rusty <reuben_barton@xxxxxxxx> wrote:
>> http://prod.nais.nasa.gov/eps/eps_data/118283-SOL-001-002.doc
>>From the drawings, it appears that the CEV command module has four
>forward facing docking windows, four side windows and one window on the
>side hatch...

Does look that way. Interesting that they think there's no problem in putting windows on the "windward" side of the capsule. (Because such a capsule reenters tilted, with one side of the cone surface nominally parallel to the airflow, that side gets rather hotter than the "lee" side. Apollo deliberately put the hatch, the windows, and the thrusters on the lee side.)

>The CEV service module rcs quads seem to have eight rocket
>nozzles each.

For a guess, that's internal redundancy: each quad has two independent four-thruster systems. (Can't be because they need the extra thrust -- they're developing new thrusters anyway, so they could just make them bigger.) Seems a bit on the paranoid side.

>The Lunar lander rcs quads seem to have six rocket nozzles each.

If they're doing attitude control during ascent with the RCS, as Apollo did, roll control (for rotation around the main-engine thrust axis) generally takes rather less authority than pitch and yaw.

psystems.net is temporarily off the air; | Henry Spencer
mail to henry at zoo.utoronto.ca instead. | henry@xxxxxxxxxxxxx
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 - ◇ *From:* richard schumacher

- *References:*

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 - ◇ *From:* Lorenzo Baldi
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 - ◇ *From:* Rusty
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