

Re: Size of the proposed "new" space vehicle?

Source: <http://sci.tech-archive.net/Archive/sci.space.shuttle/2005-09/msg00387.html>

- *From:* "Jeff Findley" <jeff.findley@xxxxxxxxxxxxxxxx>
 - *Date:* Mon, 26 Sep 2005 19:33:06 -0400
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"R.Glueck" <glueck@xxxxxxxx> wrote in message
[news:dh6kh5\\$ln3\\$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:dh6kh5$ln3$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

> Since the "new" space vehicle is based on the Apollo spacecraft,

The only thing they're reusing from Apollo is the exterior shape, and even that will be increased in size. Everything else about it will be new.

- > I have to
- > wonder:
- > -Yeah, a crew of three can live quite nicely in it on a 10 day venture
- > to the moon and back, but what about a 7 month trip to Mars? I think the
- > astronauts will go nuts in that tiny enclosed space.

They won't "live" in the CEV for a 7 month trip to Mars, just like they won't be living in the CEV for six month missions to the moon. For lunar trips, they'll live in the lander, for trips to and from mars, they'll likely live in a module (or modules) similar to space station modules. The CEV will only be used for launch to LEO and for reentry when returning from Mars.

- > -Will the systems be wired and routed in the same manner as the 1960's
- > vehicle?

No.

- > -Will the care in building and fire-hazard procedures be followed as
- > closely as they were post-Apollo 204?

I'm sure that NASA will try to do the right thing here and do better than that. The fire on Mir taught us some lessons too.

- > -How many hard lessons will we have to endure in the evolution of this
- > vehicle, as was paid for with the Apollo's and shuttles?

Hard to say, but everything worth doing has risk. Even getting out of bed in the morning involves risk.

- >. Obviously, test

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- > vehicles must be developed, flown, re-evaluated, flown, re-evaluated...etc.
- > How far ahead of the curve can we stay with a new vehicle concept, owing to
- > what we've already had to pay for in lives? Test pilots die. That's a
- > fact. Reducing the number before the fact is the engineer's job.

That's all true, but what's your point?

Jeff

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• **References:**

- ◆ **[Size of the proposed "new" space vehicle?](#)**

◇ From: R.Glueck

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