

moon and beyond in the coming decades.

The preliminary design review is the first such milestone in more than

35 years for a U.S. rocket that will carry astronauts into space. The review was conducted at NASA's Marshall Space Flight Center in Huntsville, Ala. It examined the current design for the Ares I launch vehicle to assess that the planned technical approach will meet

NASA's requirements for the fully integrated vehicle. That ensures all components of the vehicle and supporting systems are designed to work together.

"This is a critical step for development of the Ares I rocket," said Rick Gilbrech, associate administrator of the Exploration Systems Mission Directorate in Washington.

"Completing the preliminary design review of the integrated vehicle demonstrates our engineering design and development are on sound footing, and the Ares I design work is taking us another step closer to building America's next mode of space transportation."

The preliminary design review included more than 1,100 reviewers from seven NASA field centers and multiple industry partners. The review is the final step of this design process.

Teams representing each major part of the Ares I rocket -- the upper stage engine, first stage and upper stage -- all have conducted similar reviews during the past year.

The preliminary design review is one of a series of reviews that occurs before actual flight hardware can be built. As the review process progresses, more detailed parts of the vehicle design are assessed to ensure the overall system can meet all NASA requirements for safe and reliable flight. This process also

identifies technical and management challenges and addresses ways to reduce potential risks as the project goes forward. "Risk assessment is a very important part of the process," said Steve Cook, manager of the Ares I rocket at Marshall. "It allows us to identify issues that might impact the Ares I rocket. For example, we identified thrust oscillation – vibration in the first stage – as a risk. In response to this issue, we formed an engineering team. The team conducted detailed analyses and reviewed previous test data, and then recommended options to correct the problem." "We intend to hold a limited follow-up review next summer to fully incorporate the thrust oscillation recommendations into the stacked vehicle design," Cook added. "Identifying risks that can impact the project and resolving them is a necessary and vital part of the development process." With the completion of this review, each element of the Ares I rocket will move to the detailed design phase. A critical design review will mark the completion of the detailed design phase and allows for a more thorough review of each system element to ensure the vehicle design can achieve requirements of the Ares program. This week, the J-2X engine will be the first Ares I element to kick off the critical design review process. The engine will power the Ares I upper stage to orbit after separation from the first stage. "We're excited about getting into full system engine tests with the new J-2X engine," Cook said. "This will be one of the safest, most affordable and highest performing rocket engines ever built, and testing is critical as we begin preparation for future flights."

Re: BUTT FUCKING DUMB AMERICANS – EVERY FUCKING WHERE YOU LOOK

Marshall manages the Ares projects and is responsible for design and development of the Ares I rocket and Ares V heavy cargo launch vehicle. NASA's Johnson Space Center in Houston manages the Constellation Program, which includes the Ares I rocket, the Ares V vehicle, the Orion crew capsule and the Altair lunar lander. NASA's Kennedy Space Center in Florida is responsible for ground and launch operations. The program also includes multiple project element teams at NASA centers and contract organizations around the U.S.

For more information about the Ares rockets, visit:

<http://www.nasa.gov/ares>

For more information about NASA's Constellation Program, visit:

<http://www.nasa.gov/constellation>

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Starting 2015?

Is this a realistic forecast? Only 7 years left. Does anyone remember how long the first launch of the space shuttle was delayed?

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"Those who ignore history are condemned to repeat it," but presently I've a couple of questions.

- 1) How will the new President put his mark on the NASA space program, and what will this do to the Ares project?
- 2) How do Ares development costs compare to SpaceX/Falcon development costs?

I simply refuse to believe that there are still Americans who are still SO FUCKING STUPID that they think that ARES I is a great idea, let alone think that it will ever fly. But the evidence doesn't lie, there are.

Who could imagine ...

It can't happen here
It can't happen here
I'm telling you, my dear
That it can't happen here
Because I been checkin' it out, baby
I checked it out a couple a times

But I'm telling you

Re: BUTT FUCKING DUMB AMERICANS – EVERY FUCKING WHERE YOU LOOK

Re: BUTT FUCKING DUMB AMERICANS – EVERY FUCKING WHERE YOU LOOK

It can't happen here
Oh darling, it's important that you believe me
(Bop bop bop bop)
That it can't happen here

Who could imagine that they would freak out somewhere
in Kansas . . .
(Kansas . . . Kansas . . . Kansas . . . Kansas . . .)
(Kansas, Kansas, do-do-dun to-to
Kansas, Kansas, la la la)
(Kansas, Kansas, do-do-dun to-to
Kansas, Kansas)

Who could imagine that they would freak out in Minnesota . . .
(Mi-mi-mi-mi-mi-mi-mi-mi-mi-mi-mi-mi-mi
Mi-mi-mi-mi-mi-mi-mi-mi-mi-mi-mi . . .)
(Mama Minnesota, Mama Minnesota, Mama Minnesota,
Ma-ma-ma-ma-ma-ma-ma-ma Mama Minnesota,
Mama Minnesota, Mama Minnesota,
Ma-ma-ma-ma-ma-ma-ma-ma-ma-ma-ma Mama Minnesota)
Who could imagine . . .

Who could imagine
That they would freak out in Washington, D.C.
(AC/DC bop-bop-bop)
(AC/DC do-do-do-dun, AC/DC
Ma-ma-ma-ma-ma-ma-ma, AC/DC)
But it can't happen here
Oh baby, it can't happen here
(AC/DC bop-bop-bop)
Oh baby, it can't happen here
(AC/DC bop-bop-bop)
It can't happen here
Everybody's safe and it can't happen here
(AC/DC bop-bop-bop)
No freaks for us
(AC/DC bop-bop-bop)
It can't happen here
(AC/DC bop-bop-bop)
Everybody's clean and it can't happen here
No, no, it won't happen here
(No, no, it won't happen here)
(AC/DC bop-bop-bop)
I'm telling you it can't
(AC/DC bop-bop-bop)
It won't happen here
Bop-bop-ditty-bop
(I'm not worried at all, I'm not worried at all)
Ditty-bop-bop-bop
Plastic folks, you know
It won't happen here
You're safe, mama

Re: BUTT FUCKING DUMB AMERICANS – EVERY FUCKING WHERE YOU LOOK

(No no no)
You're safe, baby
(No no no)
You just cook a tv dinner
(No no no)
And you make it
Bop bop bop
(No no no)
Oh, we're gonna get a tv dinner and cook it up
(No no no no no no no!)
Oh, get a tv dinner and cook it up
Cook it up
Oh, and it won't happen here
Who could imagine
That they would freak out in the suburbs!
(No no no no no no no no no no)
Man you guys are really safe
Everything's cool)

I remember (tu-tu)
I remember (tu-tu)
I remember (tu-tu)
They had a swimming pool
I remember (tu-tu)
I remember (tu-tu)
They had a swimming pool
I remember (tu-tu)
I remember (tu-tu)
They had a swimming pool

And they thought it couldn't happen here
(duh duh duh)
They knew it couldn't happen here
They were so sure it couldn't happen here
But . . .

Martha . . .
Yes yes, oh yes—I've always felt that
Yes, I agree man, it really makes it . . . yeah . . .
It's a real THING, man, it really makes it

Frank Zappa: Martha, you just got to town, and we've been . . . we've
been very interested in your development

Martha : Forget it!

Hmmmmmmmmmm
(It can't happen here)–

Yes, yes, Trouble Coming Everyday.

Re: BUTT FUCKING DUMB AMERICANS – EVERY FUCKING WHERE YOU LOOK

Re: BUTT FUCKING DUMB AMERICANS – EVERY FUCKING WHERE YOU LOOK

I love the "Freakout" album.

But you shouldn't be listening to Zappa stoned and posting on the Internet...

I'm not. I'm just astonished and in awe at how fat and stupid Americans have become, in general. I guess media indoctrination and a real shitty education really does work to create an ignorant and malleable lower working slob class, who will believe almost anything you tell them, as long as you do it on the radio or on the television. Who could imagine.

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