

3.7 meter HIAD modeling results

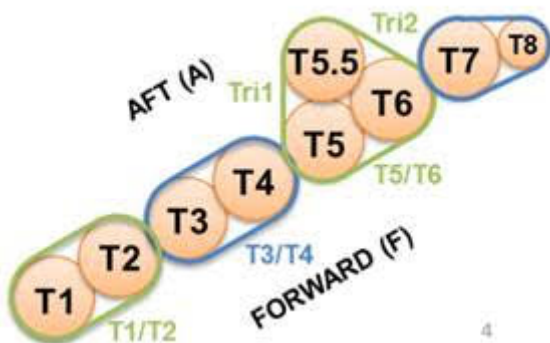
Lindell, Michael C. (LARC-D206) <michael.c.lindell@nasa.gov>

Tue, Jun 13, 2017 at 9:26 AM

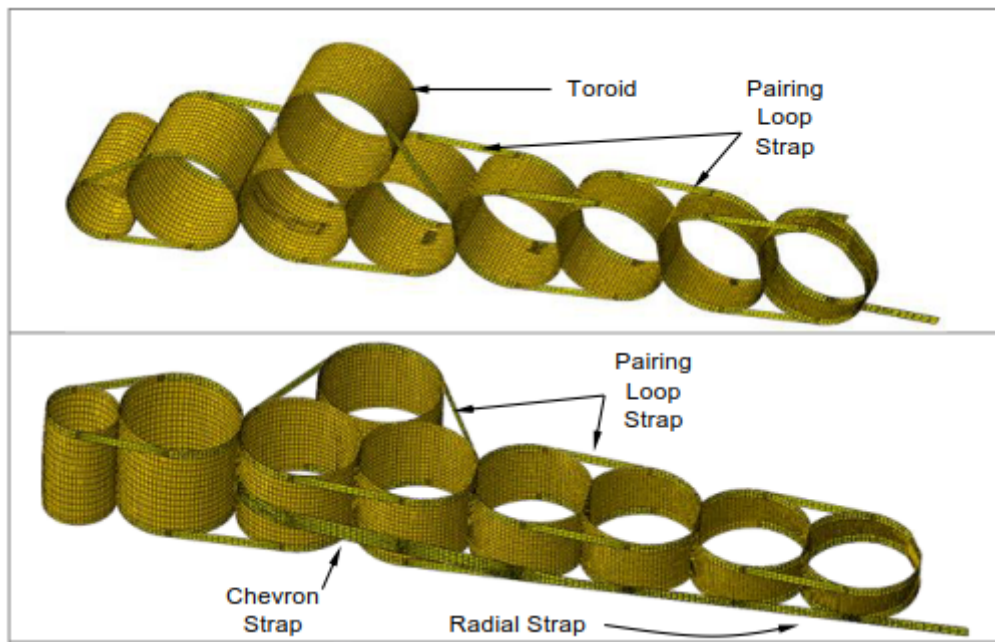
To: Andy Young <andrew.c.young1@maine.edu>

Andy,

Regarding the 6m HIAD, attached is the geometry. A couple of notes: the geometry does not show it but there was a "T5.5" torus on the aft side, tangent to T5 and T6 (see image below). In the attached photo you can see part of the radial apparently attached to nothing. Some early tests were run with the radial attached around T7 and some not attached. For our comparison cases leave it unattached to T7. There is no other radial attachment – it forks into the two chevron straps that wrap around T6. There was no aft-side radial attachment like in the newer HIADs.



Here is an image of the FEM. It is a 1/56th symmetric wedge (28 radials).



I hope that is enough to get you started. I'll follow-up with material properties later.

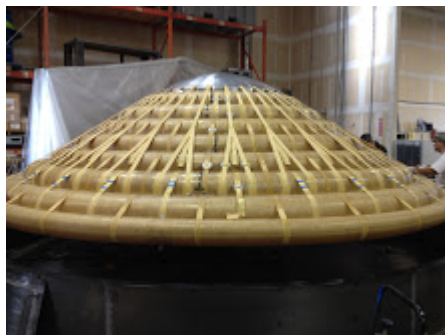
Mike

From: Andy Young [mailto:andrew.c.young1@maine.edu]
Sent: Monday, June 05, 2017 3:25 PM
To: Lindell, Michael C. (LARC-D206) <michael.c.lindell@nasa.gov>
Subject: 3.7 meter HIAD modeling results

Hi Mike,

[Quoted text hidden]

2 attachments



IMG_1149.JPG
1815K

 **HIAD 6m R2 .pdf**
562K