

Engineering Report 164.4

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Date: 02/25/2016 at 6:30p.m.

Crew Engineer Name: Louis Maller

Diesel – 21%

Propane – 54%

Gasoline (5 Gallon containers for ATV) – 2 full containers

Water (trailer) measured in cm from the bottom– 42in / 42in i.e.  
106.6cm/106.6cm from the bottom (full)

Water (static) measured in cm from the top – 18in / 42in i.e.  
45.7cm/106.6cm from the top

Trailer to Static Pump used – 0in i.e. 0cm

Water (loft) – 7.9 gallons i.e. 30 liters

Static to Loft Pump used – 9.2 gallons i.e. 35 liters

Water Meter: 104 795.0

Atv # Oil Checked: all ATVs full

Atv # Fuel Used Gals: all ATVs not used

Atv # Tires Status: #3 tires slightly under-inflated; others seem OK

Atv # Hours Used Day: ATVs not used today.

Atv # Notes and Comments: The ATVs have been repaired today by Deimos Garage aka DG. Quote : “you have wheels”. We plan on checking on them tomorrow during EVA#5

Summary of Engineering activities:

Unclogging the static tank:

The static tank was unclogged today according to the procedure described in the CapCom Guide. I extracted the clogging from the filter and it is now clean. I took a few pictures of the proceedings if need be. I found the little grid of the filter slightly damaged (a few holes in the grid).

Helmets:

The glass part of the three helmets were replaced so now the three helmets are perfectly clear and clean.

Rover:

The NorCal Rover is fully operational and has been tested inside the tunnel to and back from the observatory. We'd like to use it during

tomorrow's EVA (cf. EVA Request #5)

Questions and Concerns to Mission Support:

Water: There is hot water for dishwashing but one crewmember took a shower today and it was cold. Maybe that's because hot water takes a little bit of time to get to the shower and we only take short showers.

Radios: Great news, we have received and tested the radios, they are fully operational!

Best,  
Louis Maller  
Crew Engineer for MDRS Supaero Crew 164