

Commander Report  
02/01/2015  
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- 3 – Engineering check
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- 5 – Exercise
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- 7 – Other

Today was our day off, so the schedule was pretty much free. We were all free to relax reading a book, work on our personal things, nap, or catch up on research tasks. We had four main objectives though:

- Clean the hab
- Perform the pump maintenance
- Check the EVA suit backpacks
- Continue our internet data tracking

#### 1 – Astronomy

Last night, Louise showed Florence, Duarte and I Jupiter and its moons, our Moon and the Pleiades. She also took this opportunity to take some great pictures of the Moon which is becoming full. It was a short session, mainly for visual observation so we won't send any astronomy report today.

#### 2 – Hab cleaning

We started with cleaning the kitchen, the floors, and all the counter surfaces, as well as the EVA suit helmets, the EVA gloves and my suit, which were all full of mud from our recent EVA. This was really efficient and we were done before 1pm.

#### 3 – Engineering check

We performed a 30-min EVA for engineering check today; Duarte, our crew engineer, and myself went outside. We did not manage to refill the static pump. We tested multiple plugs, thinking the rain could have damaged some of them. None worked so we thought the pump was damaged but we tested it when we came back and it worked fine. You can have more details on this in the engineering report.

#### 4 – EVA suit backpacks

Our crew XO and HSO is also an EVA specialist and has a look today on some malfunctioning backpacks, fogging up a lot on EVAs. It turned out that the box is not sealed so the hoses are not delivering sufficient air to the helmet. She came up with a couple of mitigation solutions she would like to submit for your review. You will hear about it tonight in a separate email.

#### 5 – Exercise

Tonight we just performed a Kempo workout of the Pi90X program! Very good to end this day off!

#### 6 – Fire incident

While cooking potatoes in hot vegetable oil for lunch, a big flame (about 80 cm high) appeared in the pan and lasted for about 10-20 seconds. No damage is to report but it was very impressive and I was literally caught with surprise in front of this burning pan which I moved from the stove, in order not to burn surrounding things. Luckily nothing around caught fire nor was damaged with smoke. The good news is that the fire alarm went on. Since there was not much smoke, it went off quite fast.

#### 7 – Other

For brunch this morning we had crepes with eggs, bacon and hashbrowns from Tiffany and Louise and tonight Louise and Duarte are making hamburgers!!