

Power hiccup to speed end of Europe's space truck

13 February 2015

A European supply ship will undock from the International Space Station on Saturday as scheduled but be destroyed 12 days earlier than planned because of a power hitch, the European Space Agency (ESA) said Friday.

The Automated Transfer Vehicle (ATV) Georges Lemaitre will separate from the ISS on Saturday at 1344 GMT at the end of its six-month mission, it said.

But the loss of one of its four power sources means that, as a precaution, the ATV will be destroyed on Sunday rather than on February 27 as initially planned.

"It's a minor concern rather than a critical problem," © 2015 AFP
Dominique Siruguet, deputy head of ESA's ATV programme, told AFP.

"The ATV has four solar panels," he said.

"It can operate as normal using three power chains, but even if this were reduced to two, it would still be able to separate from the ISS and perform re-entry satisfactorily."

Re-entry entails sending the vehicle earthward at a steep angle so that it burns up on friction with the atmosphere at hypersonic speeds.

The ATV is the fifth and final cargo ship that ESA contracted to provide for the US-led ISS project.

Named after the father of the "Big Bang" theory, the spaceship is designed to navigate by starlight and dock automatically with the manned outpost in space.

The 10-metre (32.5-feet) -long ATV was launched by an Ariane 5 rocket in August, bringing 6.6 tonnes of fuel, water, oxygen, food, clothes and scientific experiments for the six ISS crew.

The initial plan was to use the ATV's death plunge as an experiment to provide data for the ISS's own demise, which is sketched for around 2024.

The idea was to see whether a longer, shallower angle of re-entry would help to burn up the ISS, which has a mass of around 420 tonnes (925,000 pounds).

The experiment has been scrapped and a conventional re-entry operation will now take place, ESA said.

It is scheduled for Sunday at around 1812 GMT, ESA said on its website.

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