

Russia restarts spacecraft after embarrassing failures

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The giant solar arrays on the International Space Station photographed in February 12, 2015 and released by the ESA and NASA

Russia on Monday managed on a second attempt to restart the engines of a Progress spacecraft attached to the International Space Station (ISS) and shift the station's orbit.

The success of the manoeuvre is a much-needed scrap of good news for

Russia's beleaguered space programme after a spate of high-profile malfunctions that saw a spacecraft fail to dock with the ISS, astronauts stranded temporarily in space and the loss of a Mexican satellite.

"The engines of the Progress-M26M cargo transport craft were switched on at 0330 (0030 GMT) and worked for 1922 seconds," space agency Roscosmos said in a statement.

"As a result of the completion of the manoeuvre the altitude of the station's orbit was increased by 2.8 kilometres."

A first attempt to turn on the Progress engines early Saturday failed.

The ISS is now at the right altitude for three of its crew members to return to Earth. Their journey home had already been delayed by the failure of an earlier rocket launch.

Roscosmos has been plunged into crisis by a series of embarrassing failures, drawing fury from politicians and prompting Moscow to launch an inquiry into the space industry after firing its previous head last year.

On Saturday morning, hours after the failed first attempt to right the ISS, Russia also lost a Mexican telecommunications satellite in a failed launch of the Proton-M carrier rocket from Baikonur Cosmodrome in Kazakhstan.

New inquiry launched

Russian Prime Minister Dmitry Medvedev launched an inquiry after the satellite incident, demanding answers from the head of the space agency, Igor Komarov, and suggesting heads could roll.



The sun rises over a launch pad at the Russian-leased Baikonur cosmodrome in Kazakhstan, on March 25, 2015

"This accident is the consequence of a systematic crisis in the (space) industry," Dmitry Rogozin, the deputy prime minister in charge of the aerospace sector, said in a statement.

He said a new bill on shaking up Roscosmos would be put before Russia's parliament on Tuesday.

Speaking to Rogozin on Monday, Medvedev said that all responsible parties "must understand that they have to have not only personal but material responsibility" for launch failures.

"Besides financial losses there are reputational hazards," he added.

A source in Russia's space sector told the state-run TASS news agency that it would take at least two weeks to determine the cause of the failure.

Last week's setbacks came less than a month after an unmanned Progress spacecraft meant to supply the ISS lost contact with Earth, shortly after take-off on April 28, before disintegrating on re-entry less than two weeks later.

Russia is currently reforming its space industry, but experts say years of underfunding mean there is a shortage in new-generation specialists to replace those recruited in the Soviet era.

"For 20 years, the sector has not been funded and the staff not trained," MP Valery Gartung, who heads the commission for the space industry in Russia's parliament, was quoted as saying by the Russian news agency RIA Novosti.

Monday's successful operation by the Progress M-26M spacecraft means three people on the ISS—Russian cosmonaut Anton Shkaplerov, American astronaut Terry Virts and Italian Samantha Cristoforetti—will be able to return to Earth within weeks.

Their return has already been delayed by a month after the failure of the April mission.

A commission is currently investigating the cause of the incident.

The new ISS team, which was initially scheduled to take off on May 26 from the Baikonur Cosmodrome, is now due to join the station at the end of July.

The exact date for the next launch to the ISS will be announced after the

commission comes out with its finding on May 22.

Since the mothballing of the US Space Shuttle programme in 2011, Russia is the only country that still has the capability to send astronauts into space, launching them from Baikonur in Kazakhstan.

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