

Historic 200th spacewalk starts late, after water leak (Update)

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A view of Earth from the International Space Station

Two US astronauts began the 200th spacewalk at the International Space Station Friday, following a brief delay after NASA discovered a water leak in equipment that helps power their spacesuits.

The official start time, 9:08 am (1308 GMT), was about two hours after it was supposed to begin, according to NASA.

The glitch affected equipment known as the servicing and cooling



umbilical (SCU), which supplies power and oxygen to the spacesuits worn by veteran US astronaut Peggy Whitson, 57, and her rookie counterpart, Jack Fischer, 43.

The problem involved "a small leak of water at the connection point of the service and cooling umbilical (SCU) as it was hooked up to Jack Fischer's spacesuit in the equipment lock section of the Quest airlock," said NASA commentator Rob Navias.

It was discovered as the astronauts were seated in the airlock inside the space station, before they ventured into the vacuum of space.

"This is not the suit itself. Fischer's suit itself is perfectly fine. The crew is perfectly fine," said Navias.

"This is the connection point of the component in the airlock itself that provides power, oxygen, cooling water and communications lines to the two crew members while they are in the process of biding their time, prebreathing pure oxygen, in the airlock itself."

According to NASA procedures, the spacewalk can go ahead with just one functioning SCU.

The plan is for the astronauts to take turns using the SCU, and alternate using battery power in their suits.

'Abbreviated' spacewalk

Spacewalks usually last about six and a half hours, but Friday's would be "abbreviated" due to the late start and would last about four hours, Navias said.

The astronauts will focus on one key task, to replace what is known as



the ExPRESS Carrier Avionics, or ExPCA, box.

The box weighs 200 pounds (91 kilograms) on Earth, and routes data and commands to experiments inside the space station, Navias said.

"It has been exhibiting some thermal issues of late, so it is being replaced," explained Navias.

The spacewalk is the ninth of Whitson's career. She holds the record for most spacewalks by a woman.

The outing is the first for Fischer, who goes by the nickname "2Fish."

NASA has experienced a series of problems with water leaking inside the astronauts' helmets, most notably in 2013 when water began filling Italian Luca Parmitano's headpiece, forcing him to cut short his spacewalk and make an emergency re-entry into the space lab.

NASA's bulky white spacesuits are aging, and the same models have been in use for four decades.

Spacewalk history

The first piece of the International Space Station—a Russian module—was launched in 1998.

The first spacewalk ever conducted at the station was on December 7 that year.

Today, the \$100 billion orbiting lab is about the size of a football field, and a symbol of global cooperation among the 15 nations that have helped build and operate it.



The station orbits the Earth at a height of about 250 miles (400 kilometers), circling the planet every 90 minutes at a speed of about 17,500 miles (28,000 kilometers) per hour.

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