hey I'm NASA Kennedy's Derek Matthews

and I'm taking you inside fair one of

the last of several large connections

called umbilicals was recently installed

on the mobile launcher the interim

cryogenic propulsion stage umbilical was

lifted by train and attached high on the

tower of the mobile launcher bringing

the steel structure one step closer to

supporting processing and launch of

NASA's Orion spacecraft and Space Launch

System rocket the mobile launcher is

designed to support assembly testing

checkout and servicing of the rocket as
as well as transfer to the pad and provide the platform from which it will one.

Researchers in Kennedy's swamp works are developing a zero launch mass 3D printer that can be used for construction projects on the Moon and Mars. Zero launch mass refers to the fact that the printer uses pellets made from simulated lunar regolith or dirt and polymers. This will prove that space explorers can use resources at their destination instead of taking everything with them, thus saving them launch mass and money. The candy team is working with Marshall.
Space Flight Center and the US Army

Corps of Engineers to develop a system that can 3D print barracks and remote locations on earth using the resources they have where they are and remember.

spaceport magazine digs deeper inside KSC

[Music]