

International Space Station Environmental Control and Life Support System Status: 2014 - 2015

David E. Williams¹

NASA Lyndon B. Johnson Space Center, Houston, Texas, 77058

and

Gregory J. Gentry²

Boeing Space Exploration Division, Houston, Texas, 77058

The International Space Station (ISS) Environmental Control and Life Support (ECLS) system includes regenerative and non-regenerative technologies that provide the basic life support functions to support the crew, while maintaining a safe and habitable shirtsleeve environment. This paper provides a summary of the U.S. ECLS system activities over the past year and the impacts of the international partners' activities on them, covering the period of time between March 2014 and February 2015. The ISS continued permanent crew operations including the continuation of six crew members being on ISS. Work continues on the commercial crew vehicles, and work to try and extend ISS service life.

¹ CCPO Thermal/ECLS Integrated Product Team Lead & C3PO Thermal/ECLS Lead, 2101 NASA Parkway, Mail Stop: EC6, AIAA Member.

² ECLS Technical Lead, ISS ECLS, 3700 Bay Area Blvd, Mail Stop: HB2-40