

## [UL Standards Development](#)

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### Brief Synopsis of Presentation:

#### **Harry Jones (Underwriters Laboratories): UL Standards Development**

The development of codes and standards for fuel cells is going to be an ongoing process, and we are going to see a lot more standards in the future in order to consider fuel cell power systems with various operating features and to address the various market categories.

There was an early disconnect—technical developers had no idea of codes to be complied with and code developers had no idea of what the technical issues would be. The good news is a lot of competent work is underway.

UL 1741 was first developed for photovoltaics (PV) and later adapted for fuel cells and other DG technologies. UL 1741 will be harmonized with IEEE/P1547 when that standard is adopted. UL 1741 may become a reference for an international standard.

UL 2262 addresses portable power systems and modules but may be retired after CSA FC 3 is adopted. UL 2264 addresses gaseous hydrogen generating appliances and UL 2265 addresses replacement fuel cell power units for appliances and micro-fuel cell units.

Numerous UL component standards are already referenced in adopted and proposed standards for both fuel cell power systems and hydrogen generating equipment.