Salt River Project
Codes and Standards related to Energy Storage
Codes and Standards related to BESS

2019 wrapped up the latest editions of these documents:

**2021 IFC**
Internation Fire Code

Better alignment between the requirements in IFC, IRC and NFPA 855

**2021 IRC, IBC**
International Residential Code

More detailed requirements on where BESS can be placed in Residential Structures

**2020 NFPA 855**

First Edition of the Standard was issued without scope due to questions regarding conflicts with NESC C2

Options for large scale fire test per UL9540A

Reference to items needing to be Listed to UL 9540

Good Reference Document

www.iccsafe.org and www.nfpa.org
Code Changes of Interest:

2021 IRC – Section 327 – Energy Storage Systems – Kept exception for “repurposed unlisted battery systems from electric vehicles”
   Kept UL 9540 listing and labeling requirements
2021 International Energy Conservation Code (IECC) –
   Added definitions of EV Supply Equipment (EVSE)
   EV Capable Space and EV Ready Space
2021 IECC Section 404.2 and 2021 IRC Section 1104.2
   New construction shall facilitate future EVSE
   1 and 2 family dwellings shall provide 1 EV Ready Space
   Complete with a branch circuit labeled EV Ready

Multi-family units shall provide spaces:
   2-10 units -> 2 EV Ready
   11-15 units -> 2 EV Ready and 3 EV Capable
   16-19 units -> 2 EV Ready and 4 EV Capable
   20-25 units -> 2 EV Ready and 5 EV Capable
   26+ units -> 2 EV Ready and 20% of total parking spaces EV Capable
Everything I need to know I learned from Walt Disney
Pre Incident Planning – Training on Site
Understanding the hazards and planning the response

Is someone inside?

First action – Shut off the power?
Do we have adequate signage to know what to shut off, and what will cut off our eyes and ears?

SME’s Readily Available?

Partnering with local first responders
Sharon Bonesteel, AIA, CBO

Energy Codes Program Manager
Battery Correlation Team Leader

602-814-7357
Sharon.Bonesteel@SRPnet.com