



# Salt River Project

## Codes and Standards related to Energy Storage



Delivering water and power™

# Codes and Standards related to BESS

2019 wrapped up the latest editions of these documents:

**2021 IFC**

**International Fire Code**

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

***Options for large scale  
fire test per UL9540A***

**2021 IRC, IBC**

**International Residential Code**

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

***Reference to items  
needing to be Listed to  
UL 9540***

**2020 NFPA 855**

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

***Good Reference  
Document***



## **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:**

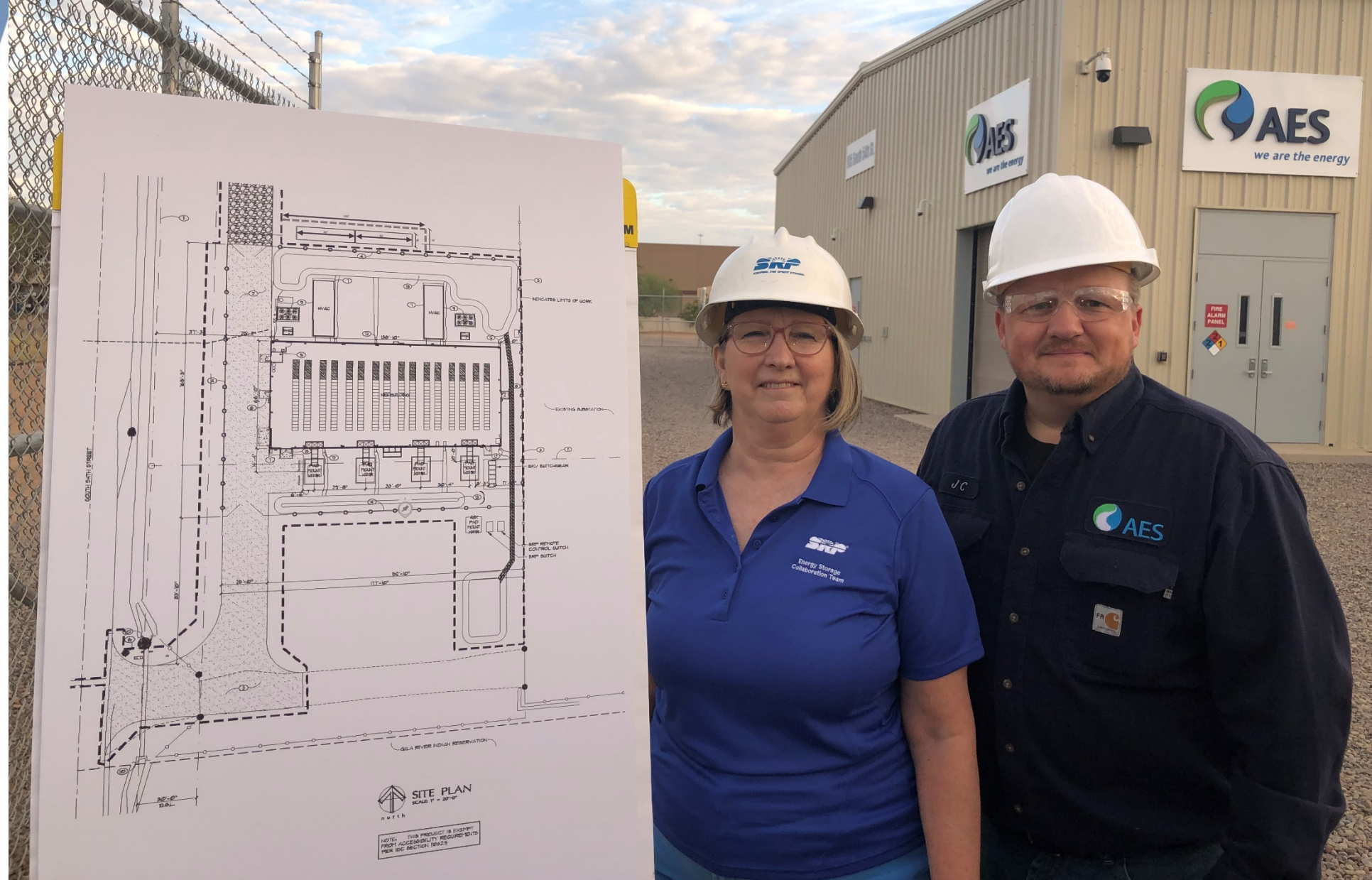
2-10 units -> 2 EV Ready

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











**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?**



Sharon Bonesteel, AIA, CBO

Energy Codes Program Manager  
Battery Correlation Team Leader

602-814-7357

Sharon.Bonesteel@SRPnet.com



Delivering water and power™



@ Melinda Riger 2015