Areas of Potential Discussion for Standards Development – 2021 WEQ Annual Plan Item 7

1. Under Order 2222, interactions between:
	1. DER Aggregator and RTO/ISO
	2. DER Aggregator and DER
	3. DER Aggregator-RTO/ISO-Distribution Utility
2. Under Order 841, interactions between:
	1. Storage asset owner and RTO/ISO
	2. Storage asset owner and an off-taker/energy manager
	3. Storage asset owner and another resource (such as a resource used to charge, like co-located wind or solar storage resource)
3. Registration process for DERs and DER Aggregators
4. Registration process for DER Aggregator with RTO/ISO
	1. Identify common market participant registration data needed to support registration use cases (Use Case 4A – UC4A)
	2. Registration with ISO/RTO of storage resource (battery) (Use Case 4B – UC4B)
	3. Registration of storage resource within ISO/RTO program(s) (Use Case 4C – UC4C)
	4. Registration of storage resource within ISO/RTO for product (Use Case 4D – UC4D)
5. Clearly distinguish between the DER Aggregator role and DER aggregations
6. Clearly distinguish between bulk/transmission level storage and distribution level storage
7. Determine impact of FERC Order No. 2222-A
8. Avoid duplication with other standardization efforts/review of other industry standards

Potential Dependencies

1. Defining grid services in a standardized format, including physical characteristics that need to be provided

Guiding Principles for Data Element Related Standards

1. Leverage existing data element names and definitions within the NAESB standards
2. Technologically neutral
3. Standards should be usable by all wholesale markets
4. All data element names should be represented in English
5. Standards don’t drive how markets are operated
6. Standards don’t dictate registration process for the ISOs/RTOs but rather are meant to identify general information that may be needed to assist in implementation
7. NAESB develops voluntary business practice standards and not policy
8. All monetary values should include a standard currency designator
9. All stored data is protected with appropriate security measures and best practices/regulations

Parking Lot Issues

1. Research the Asset Group ID and Asset Group Name with current practices for energy storage under Order No. 841. (UC4B)
2. Investigate the need for wholesale rate data elements similar to Retail Rate related data elements. (UC4B)
3. Asset Owner ID/Name data elements could be a set of identifications due to multiple owners. (UC4B)
4. Verify that Permitting data elements are included. (UC4B)
5. For Interconnection Limits data element follow-up with Nick re: Order 845. (UC4B)
6. Review SEP under Device Class for battery application. (UC4B)
7. Investigate new data elements for fire and safety protection and affiliated permits. (UC4B)
8. Determine the applicability of the Electrical Node related data elements. (UC4B)
9. Determine the applicability of the Loss Factor Value data element. (UC4B)
10. Determine the applicability of the Meter Installation Provider and Configuration data elements (UC4B)
11. Need to define common terms (e.g. DERA – DER aggregation or DER aggregator)