

EA-2026-0183

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**Schedule
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Schedule SW-D2

BESS PERMIT MATRIX

Agency	Permit
Missouri Department of Natural Resources (MoDNR)	Land Disturbance Permits
Missouri Department of Natural Resources (MoDNR)	National Pollutant Discharge Elimination System Permit (NPDES)
Missouri Department of Transportation (MoDOT)	Highway Permits (as needed by EPC and battery supplier)
St. Louis County Department of Public Works	Commercial Land Disturbance
St. Louis County Department of Public Works	Commercial Building Permit*
St. Louis County Department of Public Works	Commercial Plumbing & Drainlaying Permit
St. Louis County Department of Public Works	Floodplain Development Permit
St. Louis County Department of Public Works	Commercial Occupancy Permit*
Mehlville Fire Department	Fire Permit

*Only required for occupied structures (e.g. office or storage buildings, not required for operating plant equipment.)

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HUCK FINN BESS PERMIT MATRIX

Agency	Permit
Missouri Department of Natural Resources (MoDNR)	Land Disturbance Permits
Missouri Department of Natural Resources	National Pollutant Discharge Elimination System (NPDES) Permit
Missouri Department of Transportation (MoDOT)	Highway Permits

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MILLCREEK BESS PERMIT MATRIX

Agency	Permit
Missouri Department of Natural Resources (MoDNR)	Land Disturbance Permits
Missouri Department of Natural Resources (MoDNR)	National Pollutant Discharge Elimination System (NPDES) Permit
Missouri Department of Transportation (MoDOT)	Highway Permits

Castle Bluff BESS
Lithium-Ion Battery Energy Storage System (BESS)
Proposed In-Service Criteria

1. All major construction work is complete.
2. All preoperational tests have been successfully completed.
3. Facility successfully meets contract operational guarantees that are necessary for satisfactory completion of all other items in this list.
4. The facility demonstrated the ability to stop and start both charging and discharging when commanded to do so at a location from which it is normally operated.
5. Facility shall meet 98% of the Guaranteed Power Capacity (95MW) and Guaranteed Energy Capacity (380MWh) based on the Capacity Test in Attachment 1. The Capacity Test shall determine the facility's Corrected Capacity at the Design Point Conditions.
6. Sufficient transmission/distribution interconnection facilities shall exist for the total plant design net electrical capacity at the time the facility is declared fully operational and used for service.

Huck Finn BESS
Lithium-Ion Battery Energy Storage System (BESS)
Proposed In-Service Criteria

1. All major construction work is complete.
2. All preoperational tests have been successfully completed.
3. Facility successfully meets contract operational guarantees that are necessary for satisfactory completion of all other items in this list.
4. The facility demonstrated the ability to stop and start both charging and discharging when commanded to do so at a location from which it is normally operated.
5. Facility shall meet 98% of the Guaranteed Power Capacity (200MW) and Guaranteed Energy Capacity (800MWh) based on the Capacity Test in Attachment 1. The Capacity Test shall determine the facility's Corrected Capacity at the Design Point Conditions.
6. Sufficient transmission/distribution interconnection facilities shall exist for the total plant design net electrical capacity at the time the facility is declared fully operational and used for service.

Millcreek BESS
Lithium-Ion Battery Energy Storage System (BESS)
Proposed In-Service Criteria

1. All major construction work is complete.
2. All preoperational tests have been successfully completed.
3. Facility successfully meets contract operational guarantees that are necessary for satisfactory completion of all other items in this list.
4. The facility demonstrated the ability to stop and start both charging and discharging when commanded to do so at a location from which it is normally operated.
5. Facility shall meet 98% of the Guaranteed Power Capacity (250MW) and Guaranteed Energy Capacity (1,000MWh) based on the Capacity Test in Attachment 1. The Capacity Test shall determine the facility's Corrected Capacity at the Design Point Conditions.
6. Sufficient transmission/distribution interconnection facilities shall exist for the total plant design net electrical capacity at the time the facility is declared fully operational and used for service.

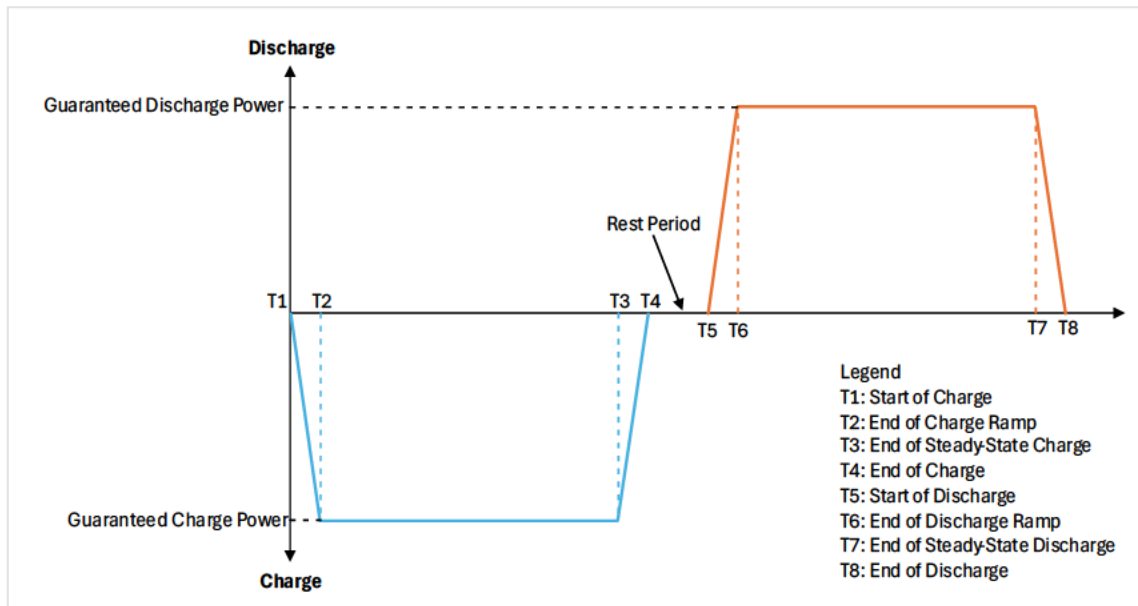
Capacity Test Summary

Purpose

Demonstrate that the Actual Charge Power Capacity, Actual Discharge Power Capacity, and Actual Energy Capacity of the System equals or exceeds the Guaranteed Power Capacity and Guaranteed Energy Capacity, respectively.

Procedure

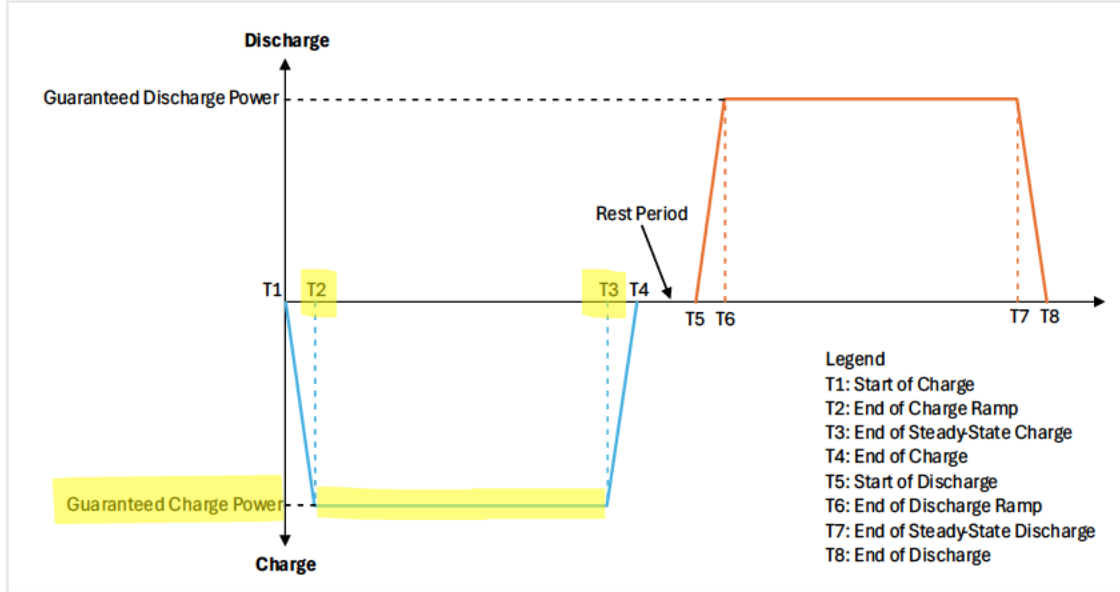
1. Fully discharge battery prior to start of test
2. Fully charge battery at full power
3. Fully discharge battery at full power



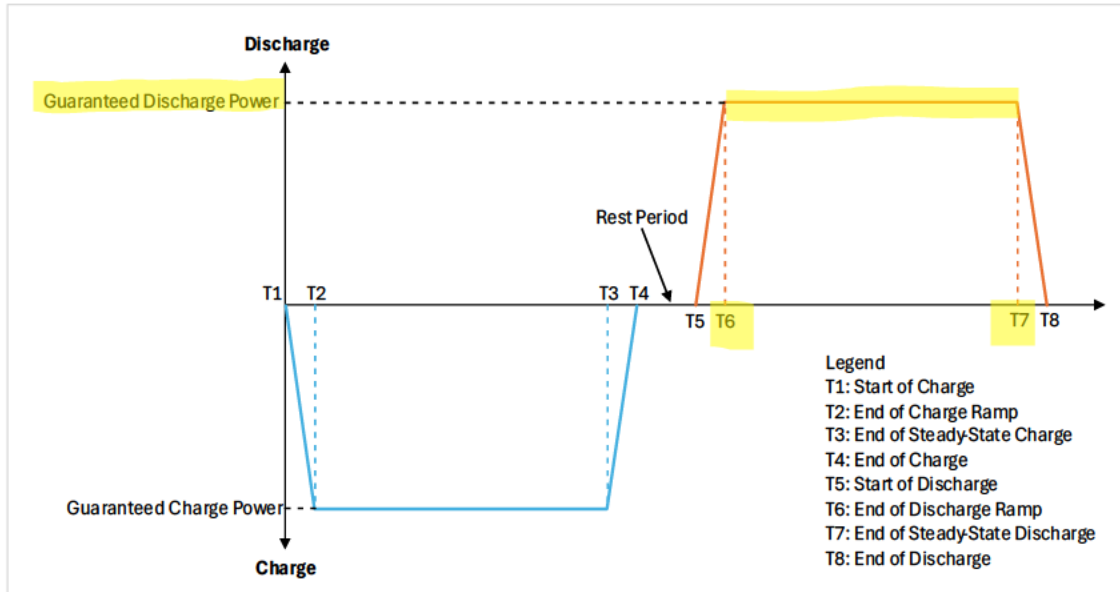
Acceptance Criteria

1. Guaranteed Power Capacity (MW)

Charging: Average Real Power between T2 and T3 \geq Guaranteed Power Capacity



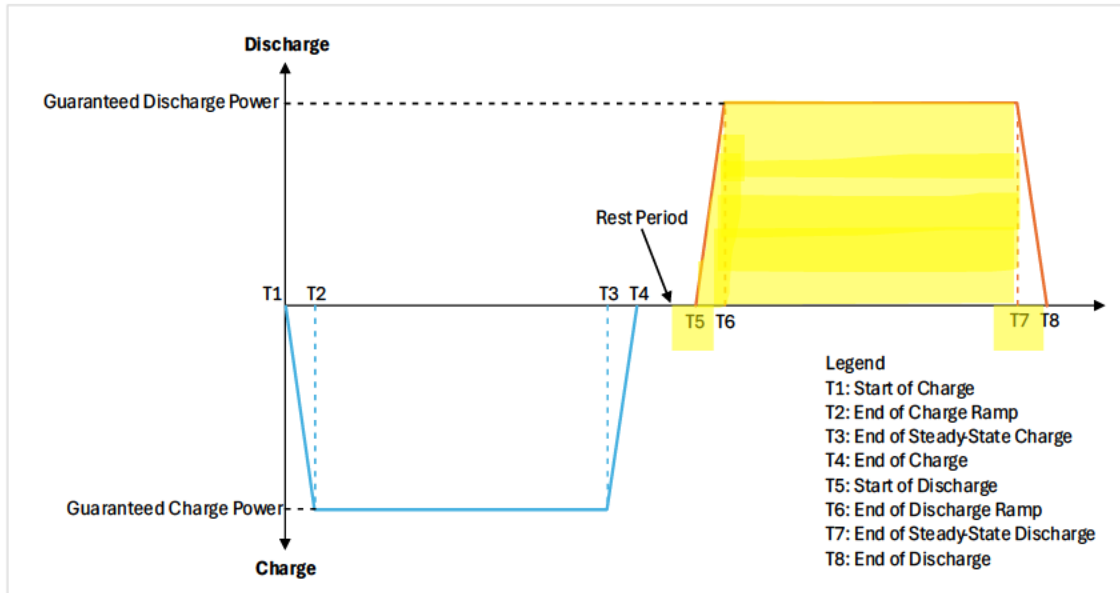
Discharging: Average Real Power between T6 and T7 \geq Guaranteed Power Capacity



2. Guaranteed Energy Capacity (MWh)

Discharging: Total energy exported between T5 and T7 \geq Guaranteed Energy Capacity

NOTE: This includes the energy during the ramp up in power because this can be programmed differently for different projects and is dependent on grid needs at the POI. However, the ramp down at the end is not included as this is caused by the need to protect batteries as they reach 0%.



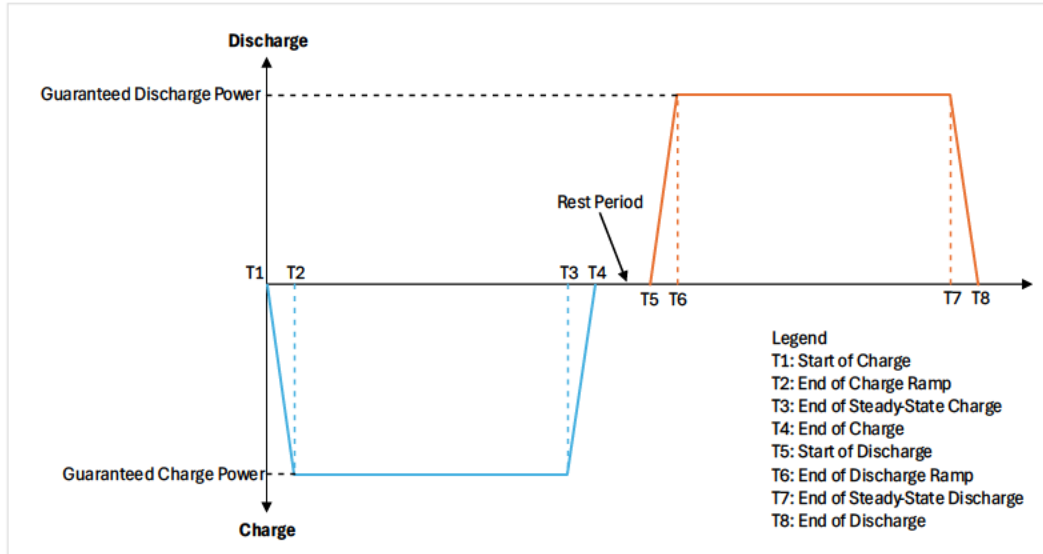
Attachment 1 - Capacity Test

Definitions

- Corrected Capacity: The most recent actual tested Power Capacity (in MW AC) and Energy Capacity (in MWh AC) corrected to Design Point Conditions (DPC).
- CT Error: The error of the current transformer during the Capacity Test according to its accuracy class or based on manufacturer's unit test data.
- Design Point Conditions (DPC): A set of ambient reference conditions, which include a relative humidity of {seventy percent (70%)}* and a maximum ambient temperature {forty-five degrees (45°)}* Celsius.
- Line and Transformational Losses: Real and reactive power losses for the balance of plant system up to the Point of Measurement.
- Maximum Hourly Average Ambient Temperature: The maximum of hourly average ambient temperature recorded during the Capacity Test.
- Meter Energy Exported: The System's export energy as measured at the Point of Measurement by the System Meter.
- Meter Energy Imported: The System's import energy as measured at the Point of Measurement by the System Meter.
- Meter Error: The error of the System Meter during the Capacity Test according to its accuracy class or based on manufacturer's unit test data.
- Meter Real Power: The System's instantaneous total 3 phase real power as measured by the System Meter at the Point of Measurement.
- Metering System Error: The error of all meters used during the Capacity Test is calculated as follows:
$$\text{Metering System Error} = \sqrt{(\text{Meter Error})^2 + (\text{CT Error})^2 + (\text{PT Error})^2}$$
- Point of Measurement (POM): The metering location at the Point of Interconnection (POI) as defined in the Generator Interconnection Agreement (GIA).
- PT Error: The error of the potential transformer during the Capacity Test according to its accuracy class or based on manufacturer's unit test data.
- State of Energy: The amount of energy remaining in the BESS system as reported by the Power Plant Controller.

The Capacity Test shall determine the Corrected Capacity at the Design Point Conditions, and shall be based on the relevant environmental conditions in the field at the time of such test, including relative humidity and temperature. The measured Capacity shall then be "corrected" to the Design Point Conditions and the resulting Corrected Capacity shall be compared to the Guaranteed Capacity as set forth herein.

The In-Service Capacity Test shall consist of discharging until the system's SOE reaches 0% or the discharge power is equal to or less than 2% of the Guaranteed Power Capacity, charging the system at the Guaranteed Power Capacity rate until the system's SOE reaches 100% or the charge power is equal to or less than 2% of the Guaranteed Power Capacity, then discharging the system at the Guaranteed Power Capacity rate until the system's SOE reaches 0% or the discharge power is equal to or less than 2% of the Guaranteed Power Capacity.



Calculations

Guaranteed Power Capacity:

$|\text{Actual Charge/Discharge Power Capacity}| \geq \text{Guaranteed Power Capacity} * (1 - \text{Metering System Error})$

Where:

- Actual Charge Power Capacity is the average of the Meter Real Power between times T2 and T3.
- Actual Discharge Power Capacity is the average of the Meter Real Power between times T6 and T7
- Guaranteed Power Capacity is {project-specific MW rating}*

Guaranteed Energy Capacity:

$\text{Actual Energy Capacity} \geq \text{Guaranteed Energy Capacity} * (1 - \text{Metering System Error})$

Where:

- Actual Energy Capacity = Meter Energy Export (T7) - Meter Energy Export (T5)
- Guaranteed Energy Capacity shall be corrected for the Maximum Hourly Ambient Average Ambient Temperature experienced during the Capacity Test by applying an adjustment factor. {adjustment factors listed here}* Example: If greater than 45C and less than 50C then adjust the Guaranteed Energy Capacity to 99% of the nameplate value.
- Guaranteed Energy Capacity is {project-specific MWh rating}*

*Note: Formula {constants} to be adjusted pursuant the final equipment selection and design.

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**Schedule
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TOM SAWYER PERMIT MATRIX

Agency	Permit
Missouri Department of Natural Resources (MODNR)	MDNR State Operating Permit MO-RA00000 (State Land Disturbance Permit)
Missouri Department of Transportation (MoDOT)	Access & Entrance Permit
Missouri Department of Transportation (MoDOT)	Oversize / Overweight Permits

**Solar Electrical Generator
In-Service Test Criteria**

1. Solar Block Circuit major construction work is complete.
2. Solar Block Circuit preoperational tests have been successfully completed.
3. Facility or Solar Block Circuit successfully meets contract operational guarantees that are necessary for satisfactory completion of all other items in this list.
4. Upon observation of the facility or Solar Block Circuit for 72 consecutive hours, the facility or Solar Block Circuit will have demonstrated that when sunlight was shining on it during that period it produced power in a standard operating mode.
5. Facility or Solar Block Circuit shall meet at least 95% of the guaranteed capacity (in MW AC) based on the Capacity Test in Attachment 1. The Capacity Test shall determine the facility's Corrected Capacity at the Design Point Conditions.
6. Sufficient transmission/distribution interconnection facilities shall exist for the total plant design or Solar Block Circuit net electrical capacity at the time the facility or Solar Block Circuit is declared fully operational and used for service.
7. Sufficient transmission/distribution facilities shall exist for the total plant design net electrical capacity into the utility service territory at the time the facility or Solar Block Circuit is declared fully operational and used for service.

Attachment 1

Definitions:

“Block” means modules, wiring, combiner boxes, grounding wires, and other items electrically connected to the low DC side of a single inverter skid (inclusive), and racks, conduit, wiring, monitoring and other equipment electrically or mechanically attached to such items.

"Corrected Capacity" means the most recent actual tested Capacity, in MW-AC, corrected to Design Point Conditions (DPC) as described herein.

"Design Point Conditions" (DPC) means a set of ambient reference conditions, which include a solar irradiance of {1050 watts per square meter}*, module cell temperature of {forty-five degrees (45°)}* Celsius, atmospheric air mass of {1.5 or less and wind speed of one (1) meter per second}*.

"POA" means plan of array irradiance.

“Solar Block Circuit” means a Block or group of Blocks that are connected to an AC collection system feeder to the substation and components thereof and are capable of producing electricity separately from any other Solar Block Circuit.

The In-Service Capacity Test shall determine the Corrected Capacity at the Design Point Conditions, and shall be based on the relevant environmental conditions in the field at the time of such test, including field irradiance and temperature. The measured Capacity shall then be "corrected" to the Design Point Conditions and the resulting Corrected Capacity shall be compared to the Guaranteed Capacity as set forth herein.

The In-Service Capacity Test data shall consist of a minimum of fifty (50) 15-minute blocks of average Plane of Array (POA) Irradiance solar irradiance data, where POA is at least 500 W/m² for months March through October.

The Capacity Test shall consist of a minimum of fifty (50) 15-minute blocks of average Plane of Array Irradiance (POA) solar irradiance data where the POA is at least 500 W/m². However, if any portion of the test falls within the months of November through February, and the test has been in progress for 30 calendar days without providing fifty (50) 15-minute blocks of data with a minimum POA of 500 W/m², data collected from November through February during the in-progress test with a minimum POA of 300 W/m² may be utilized to complete the test.

a. Calculations Procedures:

$$(1) T_{cell} = T_{module} + \{1.5\}$$

$$(2) W_{COR} = W_{meas} * (IRR_{DPC}/IRR) * (1/(1+TCOEFF (T_{cell}-T_{DPC})))$$

$$(3) W_{\text{guar}} = \frac{W_{\text{COR}}}{W_{\text{GUAR}}}$$

Where ...

- W_{MEAS} = Measured AC capacity in [MW]
- W_{COR} = Corrected AC capacity at Design Point Condition (DPC) in [MW]
- IRR_{DPC} = Direct normal irradiance at DPC {1050 W/M²} * in [W/m²]
- IRR = Measured irradiance in [W/m²]
- TCOEFF = Temperature at coefficient of maximum power of installed panel {(-0.00XX/°C) [°C]}
- T_{module} = Measured module temperature in [°C]
- T_{cell} = Measured module/backsheet temperature in [°C] + {1.5 correction factor [°C]} *
- T_{DPC} = Temperature at DPC {(45°C)} *
- W_{GUAR} = Guaranteed AC capacity of the system {(XXX.X MW-AC)} in [MW]

*Note: Formula {constants} to be adjusted pursuant the final equipment selection and design.

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Ringer Solar Permit Matrix

Agency	Permit
Pike Township, Missouri	Road Access and Crossing Permits
Stoddard County - Floodplain Administrator	Floodplain Development Permits
Missouri Department of Transportation (MoDOT)	Oversize / Overweight Permits
Missouri Department of Transportation (MoDOT)	MDOT Access & Entrance Permit
Missouri Department of Natural Resources (MoDNR)	State Land Disturbance Permit

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