RMS ENERGY

EXPERTISE IN THE SPP REGION

RMS Energy delivers expert interconnection support across the SPP footprint, serving generation, storage, and major load projects:

- Deep experience with **developers and Transmission Owners** throughout SPP's expanded 17-state RTO footprint.
- Expertise spanning the **full interconnection lifecycle: studies, modeling, commissioning, and compliance.**
- Proven capability with **renewable generation, energy storage, IBRs, and large-scale commercial loads.**
- **Support navigating** SPP's Consolidated Planning Process (CPP), generator interconnection requirements, and applicable legacy DISIS studies.
- **Competitive transmission support,** including Qualified RFP Participant (QRP) qualification assistance, technical studies, and proposal preparation under Attachment Y.



SPP GENERATOR INTERCONNECTION CONSOLIDATED PLANNING PROCESS (ATTACHMENT AY)

RMS Energy supports generation and storage developers through SPP's Consolidated Planning Process (CPP), from project screening and application preparation to studies, agreement execution, and commissioning.

From Application to Interconnection

- **Project Screening:** Evaluate the point of interconnection (POI), project capacity, service needs, and potential upgrade exposure.
- **Application & Validation:** Prepare Appendix 3 and Attachments A/B/C, technical data, site-control documentation, attestations, and required deposits and security for submission through SPP's SIMS portal.
- **Interconnection Cluster Study (ICS):** Support power flow, stability, and short-circuit assessments, review study results, and coordinate with SPP and the Transmission Owners.
- **Decision Point & Agreement:** Evaluate study findings, financial commitments, and applicable follow-on studies before proceeding toward a CPP Generator Interconnection Agreement (GIA).

Key CPP Considerations

- **Published Application Windows:** Plan submissions around SPP's current ICS windows and validation deadlines.
- **Planned & Unplanned Locations:** Assess whether the requested POI and capacity qualify for a Planned Interconnection Location (PIL) or follow the Unplanned Interconnection Location pathway.
- **Cost & Financial Readiness:** Evaluate GRID-C contributions, GRID financial security, and Directly Assigned Upgrade Costs (DAUC). GRID-C does not eliminate all project-specific costs.
- **Facilities Evaluation:** Facilities Analysis is performed during ICS. Planned locations may require a refresh; unplanned locations proceed through ICS restudy and a Facilities Study before GIA execution.

RMS Energy Support

- POI screening, independent power flow studies, and interconnection risk assessment.
- PSS®E model preparation, dynamic and EMT modeling, model quality testing, and benchmarking as applicable to project requirements and milestones.
- Application development, submission coordination, and responses to technical deficiencies.
- Review of upgrade requirements, cost exposure, security obligations, and proceed-or-withdraw decisions.
- Technical support for GIA negotiations, commissioning, and as-built model updates.

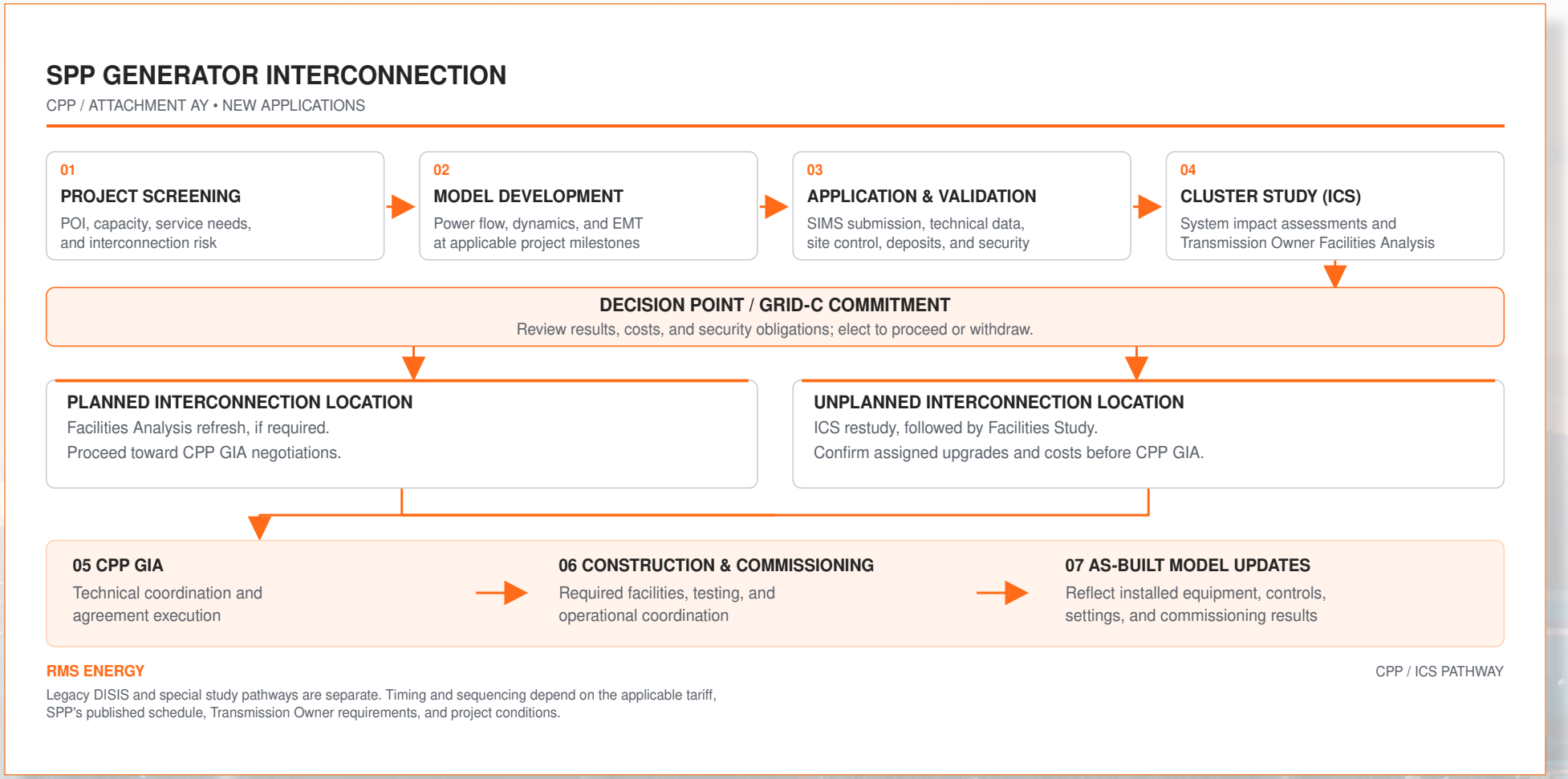
Additional Project Pathways

- **Legacy DISIS Projects:** Support applicable existing clusters under Attachment V and their associated study requirements.
- **Existing Facilities:** Evaluate generator replacement, modification, and surplus interconnection options under applicable SPP procedures.
- **Data Centers & Large Loads:** Support **HILL** studies, **HILLGA** for eligible supporting generation, and **CHILLS** evaluations, including conditional-service and curtailment considerations.
- **Competitive Transmission:** Provide QRP qualification assistance, technical studies, and competitive proposal support under Attachment Y.

HILL = High Impact Large Load. **HILLGA** = High Impact Large Load Generation Assessment.
CHILLS = Conditional High Impact Large Load Service. **QRP** = Qualified RFP Participant.

SPP INTERCONNECTION PROCESS

The graphic shows the CPP/ICS pathway for new generator interconnection requests. Legacy DISIS and special study pathways are separate. Requirements, timing, and sequencing depend on the applicable tariff, SPP's published schedule, Transmission Owner requirements, and project conditions.



TECHNOLOGICAL & **RESOURCE EXPERTISE**

RMS Energy combines power system engineering, detailed modeling, and practical project support to help generation, storage, and large-load projects advance through SPP's interconnection and operational requirements.

- **Project Types:** Solar, onshore wind, battery energy storage, conventional generation, hybrid facilities, data centers, and industrial loads.
- **Study Capabilities:** Power flow, short circuit, transient stability, small-signal stability, electromagnetic transient (EMT), and reactive power assessments.
- **Modeling Platforms:** PSS®E, PSCAD, and TSAT model development, quality testing, and benchmarking, tailored to applicable project requirements.

Why Partner with RMS Energy?

- **Nationwide Experience:** Supporting projects across SPP, PJM, MISO, ERCOT, NYISO, ISO New England, and CAISO.
- **End-to-End Support:** From POI screening and application preparation through studies, commissioning, and operational model updates.
- **Technical Depth:** Integrated steady-state, dynamic, and EMT expertise for conventional and power-electronic-based facilities.
- **Proactive Coordination:** Helping reduce avoidable submission deficiencies, study rework, and schedule risk.

RMS ENERGY

LET'S DISCUSS YOUR NEXT SPP PROJECT

Scan the QR code to connect with RMS Energy and learn more about our transmission and interconnection services.

MODEL QUALITY & PERFORMANCE CHECKS

Testing tailored to applicable SPP and project requirements.

TEST #	TEST NAME
1	Model Documentation & Version Control
2	Controls & Protection Representation
3	Initialization & Model Usability
4	Site-Specific Plant Configuration
5	Plant Controller Coordination
6	Voltage & Current Waveform Quality
7	Fault Ride-Through & Recovery
8	Voltage & Power Setpoint Response
9	Protection Settings & Trip Behavior
10	Frequency Response & Weak-Grid Performance

