

Filing Receipt

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APPLICATION OF GRID UNITED	§	BEFORE THE
TEXAS, LLC FOR A CERTIFICATE OF	§	
CONVENIENCE AND NECESSITY	§	PUBLIC UTILITY COMMISSION
UNDER PURA §§ 37.051(C-1) AND	§	
37.056(B)(2)	§	OF TEXAS

GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

COMES NOW Grid United Texas LLC (Grid United Texas) and files this Response to the First Request for Information (RFI) from Oncor Electric Delivery Company LLC (Oncor). In agreement with the requesting party, this Response is timely filed on September 12, 2022. Grid United Texas agrees and stipulates that all parties may treat these responses as if the answers were filed under oath.

Kristen Golden State Bar No. 24065302 Grid United Texas LLC 1717 West Loop South, Suite 1800 Houston, Texas 77027 (832) 878-6879 Respectfully submitted,

Kirk D. Rasmussen

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ATTORNEYS FOR GRID UNITED TEXAS LLC

CERTIFICATE OF SERVICE

I certify that a copy of this document was served on all parties of record on this date via the Commission's Interchange in accordance with the Commission's order in Docket 50664 suspending PUC Procedural Rule 22.74.

Kirk D Rasmussen

APPLICATION OF GRID UNITED	§	BEFORE THE
TEXAS, LLC FOR A CERTIFICATE OF CONVENIENCE AND NECESSITY	§ §	PUBLIC UTILITY COMMISSION
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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-1:

Please provide any Power System Simulation for Engineering (PSS/E) steady state and/or dynamics models (in .dyr file and .dll file, if user written) and/or cases, and associated study files, that were created or used in relation to the Project.

Response No. 1-1:

Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

Engineers LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-2:

Please provide any Power Systems Computer Aided Design (PSCAD) or other electromagnetic transients models and/or cases, and associated study files, that were created or used in relation to the Project.

Response No. 1-2:

There are no documents responsive to this request.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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Request No. 1-3:

Please provide the planned HVDC converter and transmission line specifications, ratings, and operating characteristics, including, without limitation, behavior during fault events, ride-through, and disconnect/shut-down threshold. Please also provide all documents relating to the same.

Response No. 1-3:

The proposed Pecos West Project (Project) is currently planned to utilize voltage source converter technology in a monopolar configuration at a voltage of up to 525 kV and a capacity up to 1500 MW. The Project will work with the Electric Reliability Council of Texas (ERCOT), Transmission Service Providers operating in ERCOT, El Paso Electric Company and the Western Electricity Coordinating Council, and HVDC equipment vendors to develop detailed specifications that adhere to all ERCOT protocols and other regulatory requirements. Limited specifications, ratings, and operating characteristics have been developed to date for the Project, but those that have been developed/discussed are provided in the attached documents.

Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Portions of the information responsive to this request are confidential and will be produced subject to the terms of the Protective Order issued in this docket. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Allison Wahrenberger Title: Director of Engineering, Grid United LLC

APPLICATION OF GRID UNITED	§	BEFORE THE
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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-4:

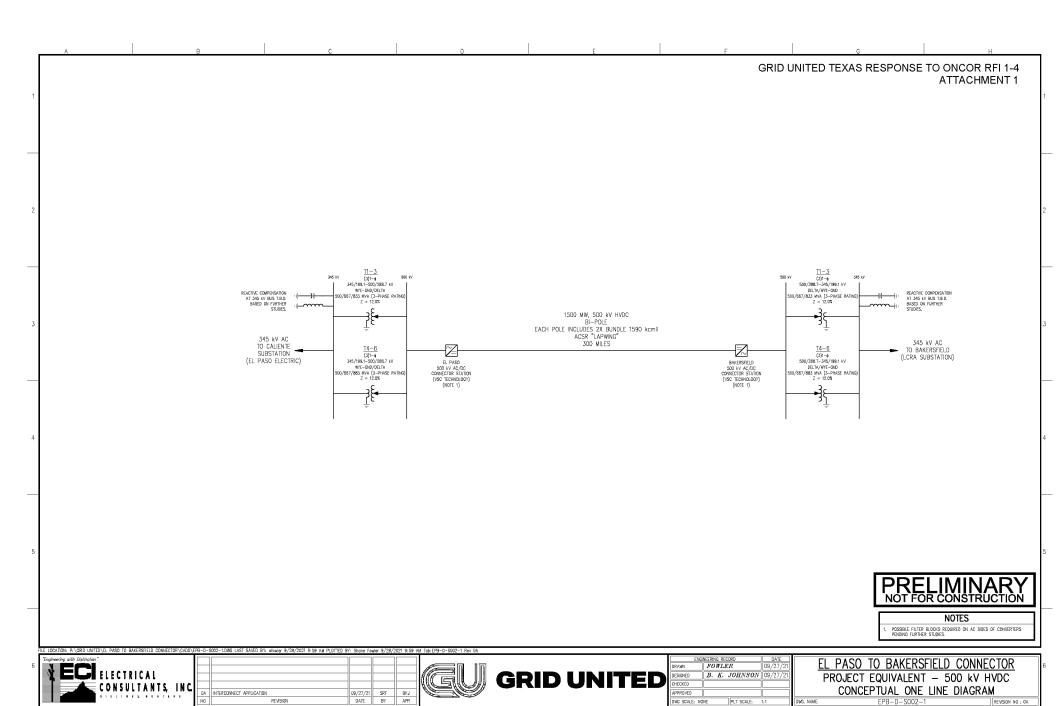
Please provide all one-line diagrams illustrating the Project's connection to LCRA TSC's Bakersfield Switching Station.

Response No. 1-4:

The document responsive to this request is attached.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC



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Request No. 1-5:

Please provide all one-line diagrams illustrating the Project's connection to EPE's transmission system.

Response No. 1-5:

The document responsive to this request was provided in response to Oncor Request No. 1-4.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

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Request No. 1-6:

Please provide all one-line diagrams illustrating the Project's connection to AEP's Solstice Station if any were created prior to choosing the Bakersfield Switching Station as the Project's endpoint.

Response No. 1-6:

There are no documents responsive to this request.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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Request No. 1-7:

Please provide the Thevenin equivalent for the WECC interconnection, including the equivalent impedance and power factor across the interconnection's operating range. Please also provide any related documents.

Response No. 1-7:

Grid United does not have the Thevenin equivalent for the WECC interconnection. There are no documents responsive to this request.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

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Request No. 1-8:

Please explain whether the power factor and impedance values provided in response to Oncor RFI 1-7 are linear across the entire MW import and export range. Please also provide any related documents.

Response No. 1-8:

Please refer to Grid United's response to Oncor Request 1-7. There are no documents responsive to this request.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-9:

Please provide all documents relating to the Project's Dynamic Reactive Capability.

Response No. 1-9:

Documents responsive to this request are voluminous are being produced electronically to the requesting party. Portions of the information responsive to this request are confidential and will be produced subject to the terms of the Protective Order issued in this docket. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-10:

Please provide all documents addressing or otherwise related to any external or additional devices that may or will be required to meet the Project's full import and export capabilities.

Response No. 1-10:

There are no documents responsive to this request. Grid United has not yet assessed and identified any external or additional devices that may or will be required to meet the Project's full import and export capabilities.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-11:

Please explain all transmission upgrades that may be necessary to facilitate import and export over the Project and provide all communications and documents related to the need for such upgrades.

Response No. 1-11:

Grid United has not yet identified any specific transmission upgrades that may be necessary to facilitate import and export over the Project on the ERCOT side of the Project. There are a variety of factors, changing on a daily basis, related to load additions, resource additions, and transmission upgrades throughout West Texas that might impact any such evaluation. Grid United intends to work with ERCOT and Transmission Service Providers operating in ERCOT to design and operate the Project in a manner that maximizes the grid benefits of the Project.

Depending on the end-point location of the Project with EPE, there may be transmission upgrades that are determined reasonable to accomplish the full import and export capability of the Project. No particular projects have been specifically identified at this time, but Grid United will continue to work with EPE to identify any upgrades necessary for the EPE ratepayers to achieve the maximum benefit from the project.

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Other documents responsive to this request were provided in response to Oncor Request No. 1-1. Portions of the information responsive to this request are confidential and will be produced subject to the terms of the Protective Order issued in this docket. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

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Request No. 1-12:

Please provide all studies, assessments, evaluations, analyses, or other documents relating to the Project's impact on voltage stability throughout the Permian Basin.

Response No. 1-12:

Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Other documents responsive to this request were provided in response to Oncor Request No. 1-1. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

Engineers LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-13:

Please provide the hourly model output indicating the Locational Marginal Price at the two connection points for the proposed HVDC device from the final economic grid simulation runs (both with and without the HVDC device in operation) in Microsoft Excel compatible format.

Response No. 1-13:

The document responsive to this request is being produced electronically to the requesting party. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Will Harrop Title: Grid Analytics Manager, Grid United LLC

APPLICATION OF GRID UNITED	§	BEFORE THE
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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-14:

Please provide the hourly operation of the HVDC device in Microsoft Excel compatible format from the final economic grid simulation run.

Response No. 1-14:

The document responsive to this request is being produced electronically to the requesting party. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Will Harrop Title: Grid Analytics Manager, Grid United LLC

APPLICATION OF GRID UNITED	§	BEFORE THE
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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-15:

Please provide an hourly representation of the regional marginal power prices (hub average price or System Lambda) for the ERCOT West zone and for the entire ERCOT region, as well as for the EPE balancing area and a larger surrounding area in WECC, such as the Public Service of New Mexico balancing area or the Southwest Reserve Sharing Group from the final economic grid simulation runs (both with and without the HVDC device in operation) in Microsoft Excel compatible format.

Response No. 1-15:

The document responsive to this request was provided in response to Oncor Request No. 1-13.

Prepared By: Will Harrop Title: Grid Analytics Manager, Grid United LLC

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Request No. 1-16:

Please explain how voltage stability limitations were modeled in the economic grid simulation analysis for both WECC and ERCOT. Specify any interface or transfer limit definitions used in the study with numerical limits that were applied.

Response No. 1-16:

The economic grid simulation included ERCOT's Generic Transmission Constraints as well as the WECC Path limits for Paths 47 and 48 limiting flows into and out of EPE's system. The document responsive to this request is being produced electronically to the requesting party. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Will Harrop Title: Grid Analytics Manager, Grid United LLC

Gimod Mathew Vice President, Transmission Strategy, Grid

United LLC

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-17:

Please specify any other non-thermal limitations included in the input dataset for the economic grid simulation analysis. Please indicate how the limit was defined in the model input, and provide any numerical limits applied in the economic grid simulation runs.

Response No. 1-17:

Four EPE units were set to must run: Montana GT4, Newman CC5, Rio Grande 8, and Rio Grande 9. Minimum output limits for these units from the WECC Anchor Dataset were used for these units. Minimum output limits for these units are specified in the uploaded responsive document. The document responsive to this request is being produced electronically to the requesting party. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Will Harrop Title: Grid Analytics Manager, Grid United LLC

Gimod Mathew Vice President, Transmission Strategy, Grid

United LLC

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-18:

Please provide all documents and communications relating the benefits, drawbacks, or other impacts of using voltage source converter (VSC) technology for the Project.

Response No. 1-18:

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Portions of the information responsive to this request is confidential and will be produced subject to the terms of the Protective Order issued in this docket. Other documents responsive to this request were provided in response to Oncor Request Nos. 1-3, 1-9 and 1-13. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Gimod Mathew Title: Vice President, Transmission Strategy, Grid

United LLC

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-19:

Please provide all studies, assessments, evaluations, communications, or other documents relating to system harmonics and subsynchronous resonance related to the Project.

Response No. 1-19:

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. There are no other documents responsive to this request.

Prepared By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

Engineers LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-20:

Please provide all studies, assessments, evaluations, communications, or other documents addressing potential reliability impacts of the Project on either ERCOT, WECC, or both, and any facilities therein.

Response No. 1-20:

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Portions of the information responsive to this request are confidential and will be produced subject to the terms of the Protective Order issued in this docket. Other documents responsive to this request were provided in response to Oncor Request Nos. 1-1, 1-11, and 1-18. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Gimod MathewTitle: Title: Vice President, Transmission Strategy, Grid

United LLC

Ken Donohoo Senior Advisor, Engineering, Electric Power

Engineers LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-21:

Please provide all communications and documents relating to any anticipated economic benefits to ERCOT or WECC that will be realized in connection with the Project.

Response No. 1-21:

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. Documents responsive to this request are voluminous and are being produced electronically to the requesting party. Other documents responsive to this request were provided in response to Oncor Request Nos. 1-3 and 1-9. Portions of the information responsive to this request are confidential and will be produced subject to the terms of the Protective Order issued in this docket. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Will Harrop Title: Grid Analytics Manager, Grid United LLC

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Request No. 1-22:

Please provide all studies, assessments, evaluations, analyses, or other documents relating to the Project's impact on voltage stability in the vicinity of LCRA TSC's Bakersfield Switching Station.

Response No. 1-22:

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. Documents responsive to this request were provided in response to Oncor Request No. 1-12. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

Engineers LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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GRID UNITED TEXAS LLC'S RESPONSE TO ONCOR ELECTRIC DELIVERY COMPANY LLC'S FIRST REQUEST FOR INFORMATION TO GRID UNITED TEXAS LLC

Request No. 1-23:

Please provide all studies, assessments, evaluations, analyses, or other documents relating to the Project's impact on voltage stability in the vicinity of AEP's Solstice Station, if any were created before choosing the Bakersfield Switching Station as the Project's endpoint.

Response No. 1-23:

Per agreement with the requesting party, email, texts, letters, notes, etc. as responsive "communications" or "other documents" are not being produced at this time. Documents responsive to this request are being produced electronically to the requesting party. Portions of the information responsive to this request are confidential and will be produced subject to the terms of the Protective Order issued in this docket. Other documents responsive to this request were provided in response to Oncor Request Nos. 1-1 and 1-12. Please see the Index of Voluminous Documents for an itemized list of documents produced.

Prepared By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

Engineers LLC

Sponsored By: Ken Donohoo Title: Senior Advisor, Engineering, Electric Power

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INDEX OF VOLUMINOUS DOCUMENTS

- GU Pecos West Input Folder containing (Bates No. 000001):
 - o 1 28SUM1 Solstice HVDC Tie.raw
 - o 1 Solstice Imp.xlsx
 - o 1 31HS1a EPEAZ Caliente G300MW.raw
 - o 2 25HWLL_Solstice_HVDC_Tie_Imp.raw
 - o 2 Solstice Exp.xlsx
 - o 3 25HWLL Solstice HVDC Tie Exp.raw
 - o 3 BKF Imp.xlsx
 - o 4 28SUM1 Bakersfield HVDC Tie.raw
 - o 4 28SUM1 Bakersfield HVDC Tie RB.raw
 - 4 BKF Exp.xlsx
 - o 5 25HWLL Bakersfield HVDC Tie Imp.raw
 - o 6 25HWLL Bakersfield HVDC Tie Exp.raw
 - o 25HWLL BKF ERCOT2.con
 - o 25HWLL BKF N-1-1 P6.con
 - o 25HWLL BKF N-A-1 ERCOT3.con
 - o 25HWLL BKF N-G-1.con
 - o 25HWLL BKF P1.con
 - o 25HWLL BKF P2P6 LLA.con
 - o 25HWLL BKF P2P6 NLLA.con
 - o 25HWLL BKF P7.con
 - o 25HWLL SOLST ERCOT2.con
 - o 25HWLL SOLST ImpExp P1.con
 - o 25HWLL SOLST ImpExp P2P6 LLA.con
 - o 25HWLL SOLST ImpExp P2P6 NLLA.con
 - o 25HWLL SOLST ImpExp P7.con
 - o 25HWLL SOLST N-1-1 P6.con
 - o 25HWLL SOLST N-A-1 ERCOT3.con

- o 25HWLL SOLST N-G-1.con
- o 28SUM BKF ERCOT2.con
- o 28SUM BKF N-1-1 P6.con
- o 28SUM BKF N-A-1 ERCOT3.con
- o 28SUM BKF N-G-1.con
- o 28SUM BKF P1.con
- o 28SUM BKF P2-P6 LLA.con
- o 28SUM BKF P2-P6 NLLA.con
- o 28SUM BKF P7.con
- o 28SUM IMP P1.con
- o 28SUM IMP P2-P6 LLA.con
- o 28SUM_IMP_P2-P6_NLLA.con
- o 28SUM Imp P7.con
- o 28SUM SOLST ERCOT2.con
- o 28SUM SOLST N-1-1 P6.con
- o 28SUM SOLST N-A-1 ERCOT3.con
- .docx File Folder containing (Bates No. 000002):
 - DRAFTGrid UnitedHVDC InterconnectionSteadyStateStudy20220509.docx
 - o Grid UnitedHVDC InterconnectionSteadyStateStudy20220509 KDR.docx
- .epc File Folder containing (Bates No. 000003):
 - o 31HS1a EPEAZ Caliente G1200MW.epc
 - o 3 31HS1a EPEAZ Caliente G900MW.epc
 - o 3 31HS1a EPEAZSL Caliente G900MW.epc
 - o 4 31HS1a EPEAZ Caliente G1200MW.epc
 - o 4 31HS1a EPEAZSL Caliente G1200MW.epc
 - o 4 31HS1a EPEAZSL Caliente G1200MW.epc
 - o 5 31HS1a EPEAZSL Caliente G1500MW.epc
- .odx File Folder containing (Bates No. 000004):
 - o El paso 345kV Backbone only.odx
 - o El Paso One line.odx
- Excel File Folder containing(Bates No. 000005):
 - o 31HS EPEAZ Caliente G Output –FV.xlsx
 - o 31HS EPEAZ Caliente G Output -FVCaliente injection Summary.xlsx
 - o 31HS EPEAZ Caliente G Output -FVCaliente injection Summary Gimod.xlsx
 - 31HS_EPEAZ_Caliente_G_Output -FVCaliente injection Summary GimWECC-2031HS&HW EPE PSLF GENS.xlsx
 - o 31HS_EPEAZ_Caliente_WorstContOverlSum_0-1500MW_Gen_Preliminary_11-26-21.xlsx
 - o 31HS EPEAZSL Caliente G Output FV.xlsx
 - Summary Gimod.xlsx
 - O WECC-2031HS&HW EPE PSLF GENS.xlsx
 - o 2031HS1a Caliente APS SRP TEP-GenDisp filtered.xlsx
 - o Caliente 1200.xlsx
- 5-2 31HS1a EPEAZ Caliente G1500MW Mit-2.pdf (Bates No. 000006)
- 5 31HS1a EPEAZ Caliente G1500MW.pdf (Bates No. 000007)
- 5 31HS1a EPEAZSL Caliente G1500MW.pdf (Bates No. 000008)

- 5-2 31HS1a EPEAZSL Caliente G1500MW Mit-2.pdf (Bates No. 000009)
- 31HS-GU Plots-Afton G300-1500 woSL-wSL 11-9-21.pdf (Bates No. 000010)
- 2021_EPE_System_Expansion_Plan_2022-2031_PUBLIC_VERSION_-_FINAL_Encrypted.pdf (Bates No. 000020)
- 2031hs GU-DC Line Cont List-11-9-21.pdf (Bates No. 000107)
- ALAMOGCP- Mit-1 SLD.pdf (Bates No. 000136)
- Base case with 1200MW at Caliente.pdf (Bates No. 000137)
- Base case with Southline with 1200MW at Caliente.pdf (Bates No. 000138)
- EPEGridUnitedSteadyStateSOW04.01.2022.pdf (Bates No. 000139)
- GU-DC-Line Base Cases 11-9-21.pdf (Bates No. 000147)
- GU-DCLine-PSLF Plots 10-26-21.pdf (Bates No. 000148)

- Meeting Notes (Kick Off Meeting Nov 30 2021).pdf (Bates No. 000149)
- Pecos West Intertie Talking Points Team comments 11302021.pdf (Bates No. 000151)
- CONFIDENTIAL 220208 Grid United PecosWestIntertie.pdf (Bates No. 000159)
- CONFIDENTIAL GridUnited Workshop 20220208 Eugen.pdf (Bates No. 000173)
- CONFIDENTIAL Siemens Workshop Notes 02102022.pdf (Bates No. 000203)
- CONFIDENTIAL Texas HVDC Feasibility Assessment.pdf (Bates No. 000209)

3. RFI 1-9

- CONFIDENTIAL GridUnited_Workshop_20220613_control modes.pdf (Bates No. 000232)
- CONFIDENTIAL GridUnited Workshop 20220208 Eugen.pdf (Bates No. 000262)
- CONFIDENTIAL Pecos West Intertie RPG 20220719.pdf (Bates No. 000268)

- Excel Files Folder containing (Bates No. 000288):
 - o 26HS HVDC summary- for IC 8-22-22.xlsx
 - o 31HS_EPEAZ_Caliente_WorstContOverlSum_0-1500MW_Gen_Preliminary_11-26-21_xlsx
 - o 2031HS1a Caliente APS SRP TEP-GenDisp.xlsx
 - o A 31HS EPEAZ Caliente G Output.xlsx
 - o A 31HS EPEAZSL Caliente G Output.xlsx
 - o B 31HS EPEAZ Picante G Output.xlsx
 - o B 31HS EPEAZSL Picante G Output.xlsx
 - o C 31HS EPEAZ Newman G Output.xlsx
 - o C 31HS EPEAZSL Newman G Output.xlsx
 - o Caliente injection Summary.xlsx
 - o Check El Paso if they have any queue priority.pdf
 - o D 31HS EPEAZ Afton G Output.xlsx
 - o D 31HS EPEAZSL Afton G Output.xlsx
 - E_31HS_EPEAZSL_Diablo_G_Output.xlsx

- Hourly binding constraint shadow prices.xlsx
- o Hourly data with upgrades 12-28-2021.xlsx
- o Hourly LMP at the line's interconnection point.xlsx
- Hourly LMP at the line's interconnection point.xlsx
- o Transmission-GU Cost Input sheet PW merged.xlsx
- Transmission-GU Cost Input sheet PW aw.xlsx
- o WECC-2031HS&HW EPE PSLF GENS.xlsx
- 2031 HS-ArroyoPS.pdf (Bates No. 000289)
- 2031 HS-ArroyoPS Calliente1500.pdf (Bates No. 000290)
- Check El Paso if they have any queue priority (Bates No. 000291)
- Dynamic Stability Assessment of High Penetration of Renewable Generation in the ERCOT grid year 2031.pdf (Bates No. 000293)
- El Paso Southwest Transmission Presentation.pdf (Bates No. 000307)
- EPE GridUnited SOW 20220401.pdf (Bates No. 000318)
- EPE Grid United DC Tie Line EconomicAnalysis 12092021.pdf (Bates No. 000326)
- EPE_HVDC_WTW_SIS_Report.pdf (Bates No. 000353)
- EPE_Pecos West Intertie_HVDC InterconnectionStudies_SOW_20220810_GM.pdf (Bates No. 000381)
- GU-DCLine-PSLF_Plots_10-26-21.pdf (Bates No. 000390)
- Interconnection Request for Pecos West HVDC at Bakersfield 345kV.pdf (Bates No. 000398)
- Pecos West HVDC Bakersfield reliability benefits analysis.pdf (Bates No. 000399)
- Pecos West Intertie ERCOT RPG 20220719.pdf (Bates No. 000400)
- Pecos West Intertie Report Summary (Bates No. 000420)
- Project Coordination, Path Rating, and Progress Report.pdf (Bates No. 000422)
- Scoping meeting for Wires to Wires HVDC.pdf (Bates No. 000518)
- The Use of GTCs in ERCOT July 2020.pdf (Bates No. 000520)
- CONFIDENTIAL Excel Files Folder containing (Bates No. 000521):
 - o CONFIDENTIAL 31HS EPEAZ Caliente G Output –FV.xlsx
 - o CONFIDENTIAL 31HS EPEAZ Caliente G Output 11-28-21.xlsx
 - o CONFIDENTIAL 31HS EPEAZSL Caliente G Output FV.xlsx
 - o CONFIDENTIAL Caliente injection Summary.xlsx
 - CONFIDENTIAL Hourly data with upgrades 12-28-2021.xlsx
- CONFIDENTIAL 1 31HS1a EPEAZ Caliente G300MW.pdf (Bates No. 000522)
- CONFIDENTIAL 1 31HS1a EPEAZ Caliente G600MW.pdf (Bates No. 000523)
- CONFIDENTIAL 1 31HS1a EPEAZ Caliente G900MW.pdf (Bates No. 000524)
- CONFIDENTIAL 1 31HS1a EPEAZ Caliente G1200MW.pdf (Bates No. 000525)
- CONFIDENTIAL 1 31HS1a EPEAZ Caliente G1500MW.pdf (Bates No. 000526)
- CONFIDENTIAL 1 31HS1a EPEAZSL Caliente G300MW.pdf (Bates No. 000527)
- CONFIDENTIAL 1 31HS1a EPEAZSL Caliente G600MW.pdf (Bates No. 000528)
- CONFIDENTIAL 1 31HS1a EPEAZSL Caliente G900MW.pdf (Bates No. 000529)
- CONFIDENTIAL 1 31HS1a EPEAZSL Caliente G1200MW.pdf (Bates No. 000530)
- CONFIDENTIAL 1 31HS1a EPEAZSL Caliente G1500MW.pdf (Bates No. 000531)
- CONFIDENTIAL 5 31HS1a EPEAZ Caliente G1500MW.pdf (Bates No. 000532)
- CONFIDENTIAL 5_31HS1a_EPEAZSL_Caliente_G1500MW.pdf (Bates No. 000533)

- CONFIDENTIAL 5-2_31HS1a_EPEAZ_Caliente_G1500MW_Mit-2.pdf (Bates No. 000534)
- CONFIDENTIAL 5-2_31HS1a_EPEAZSL_Caliente_G1500MW_Mit-2.pdf (Bates No. 000535)
- CONFIDENTIAL ALAMOGCP- Mit-1 SLD.pdf (Bates No. 000536)
- CONFIDENTIAL ERCOT_Permian_Basin_Load_Interconnection_Study_Public.pdf (Bates No. 000537)
- CONFIDENTIAL Narrative Explanation for Zero ATC.pdf (Bates No. 000574)
- CONFIDENTIAL Tie Line_Tranmission Lines Upgrade Sensetivity_Letter 12292021.pdf (Bates No. 000578)

- EPEGridUnitedPecosWestIntertieHVDCInterconnectionStudiesSOW08.10.2022.pdf (Bates No. 000584)
- EPEGridUnitedVoltageSensitivityandGTCImpactStabilityStudySOW07.05.2022.pdf (Bates No. 000593)
- GridUnited_VoltageSensitivityandGTCImpactStabilityStudy_SOW_20220701_for review.pdf (Bates No. 000599)
- HVDC Bullets.pdf (Bates No. 000602)

6. RFI 1-13

• Hourly_Data_LMP_20220826.xlsx (Bates No. 000603)

7. RFI 1-14

• Grid United HVDCFlow.xlsx (Bates No. 000604)

8. RFI 1-16

• 20220831 GTC WECC Paths.xlsx (Bates No. 000605)

9. RFI 1-17

• 20220831 EPE MustRun.xlsx (Bates No. 000606)

- CIGRE B4_System Recovery Ancillary Service provided by VSC-HVDC in Transmission Network.pdf (Bates No. 000607)
- CONFIDENTIAL 220208 PecosWestIntertie.pdf (Bates No. 000613)
- CONFIDENTIAL 220507 GridUnited Grid Consulting WS.pdf (Bates No. 000627)
- CONFIDENTIAL Grid_United_HVDC_v0_211007.pdf (Bates No. 000676)
- CONFIDENTIAL GridUnited HVDC v0 210722.pdf (Bates No. 000714)

- CONFIDENTIAL GU HVDC v0 220207 Day1.pdf (Bates No. 000786)
- CONFIDENTIAL GU_HVDC_v0_220208_Day2.pdf (Bates No. 000828)
- CONFIDENTIAL VSC-HVDC Black Start Summary 03212022.pdf (Bates No. 000842)

• Pecos West Intertie ERCOT RPG 20220719.pdf (Bates No. 000847)

- Data Files Folder containing Wisdom Data (Bates No. 000866)
- Excel File Folder containing (Bates No. 000867):
 - o 2022 01 GridUnited Model vF.xlsx
 - o 8760 line flows.xlsx
 - o 20220501 apc ts.xlsx
 - o annual results iso da.xlsx
 - o annual results iso rt.xlsx
 - Assumptions Book ERCOT Forecasts 2021.xlsx
 - o Assumptions Book ERCOT 2021.xlsx
 - o E3-Grid United Energy Arbitrage Value Analysis 2021.12.10.xlsx
 - o E3-Grid United Energy Arbitrage Value Analysis 2021.12.10.xlsx
 - o el paso hydrogen cost.xlsx
 - o El Paso menu 5 22.xlsx
 - o epe_imports_for_python.xlsx
 - o ERCOT Historical Prices Grid United ToClient.xlsx
 - ERCOT SCED A&R Tables_Grid United ERCOT HVDC_20220525_To Client CDD.xlsx
 - o ERCOT SCED A&R Tables Grid United ERCOT HVDC 20220531 To Client.xlsx
 - o ERCOT SCED AR Tables Grid United ERCOT HVDC 20220401 To Client.xlsx
 - o ERCOT SCED AR Tables Grid United ERCOT HVDC 20220408 To Client.xlsx
 - o ERCOT export scenarios.xlsx
 - o ERCOT export scenarios iso.xlsx
 - o formatted apc.xlsx
 - o gen_changes.xlsx
 - o Grid United EPE System Summary 20220318 ToClient.xlsx
 - o Grid United EPE System Summary Sensitivity Zone Shift 20220610 ToClient.xlsx
 - o Grid United EPE System Summary Zone Shift 20220418 ToClient.xlsx
 - o Grid United EPE System Summary Zone Shift 20220426 ToClient.xlsx
 - o Grid United EPE System Summary Zone Shift 20220502 ToClient.xlsx
 - o Grid United Gen Breakdown.xlsx
 - Hourly binding constraint shadow prices.xlsx
 - o Hourly data with upgrades 12-28-2021.xlsx
 - o Hourly LMP at the line's interconnection point and Hubs Before the DC Tie.xlsx
 - o Hourly LMP at the line's interconnection point and Hubs with the DC Tie.xlsx
 - Hourly LMP at the line's interconnection point.xlsx
 - o hourly load.xlsx

- o monthly capfactor.xlsx
- o monthly generation.xlsx
- nFront Questions.xlsx
- Permian Basin DC Connector_Economic Study Input Assumptions_2021_11_11.xlsx
- o Tracked plants S&P.xlsx
- .png File Folder containing (Bates No. 000868):
 - o El Paso Monthly Generation.png
 - o gas gen by hour.png
 - o plant cap factor.png
- Python Files Folder (Bates No. 000869)
- E3 Service order 1 GU executed 111921 signed.pdf (Bates No. 000870)
- E3-Grid United Energy + REC Arbitrage Analysis 2022.01.13.pdf (Bates No. 000891)
- EPE_Grid United_DC Tie Line_EconomicAnalysis_11242021.pdf (Bates No. 000931)
- EPE Grid United DC Tie Line EconomicAnalysis 12092021.pdf (Bates No. 000947)
- Grid United- HVDC EPE ERCOT 20220418.pdf (Bates No. 000968)
- Grid United-HVDC_EPE_ERCOT_20220426.pdf (Bates No. 000885)
- HVDC Seams Analysis June18 Co-Opt.pdf (Bates No. 001005)
- HVDC Seams Analysis May 2021 pdf (Bates No. 001018)
- Long-Term-West-Texas-Export-Study-Report Jan 2022.pdf (Bates No. 001019)
- Newsletter CAISO's Congestion Highway.pdf (Bates No. 001051)
- Power Daily with Market Report September 08 2021.pdf (Bates No. 001054)
- PW SCED Updates (as PDF).pdf (Bates No. 001067)
- TO1 ERCOT WECC EPE HVDC SCED-Study 20220107.pdf (Bates No. 001068)
- TO2 ERCOT WECC EPE HVDC SCED-Sensitivity 20220531.pdf (Bates No. 001072)
- CONFIDENTIAL Excel Files Folder containing (Bates No. 001075):
 - CONFIDENTIAL CAPEX File GU Default (Draft) PWI bds.xlsx
 - o CONFIDENTIAL Copy of NPC waterfall 20220407.xlsx
 - CONFIDENTIAL data.xlsx
 - o CONFIDENTIAL El Paso Electric System Demand.xlsx
 - CONFIDENTIAL El Paso menu 5 22.xlsx
 - CONFIDENTIAL EPE IRP data 6 22.xlsx
 - CONFIDENTIAL GridUnited_Model_vF RM for Cap and Trade_\$170MM_\$10MM_opex.xlsx
- CONFIDENTIAL 20220428 EPE.pdf (Bates No. 001076)
- CONFIDENTIAL 20220505 ercot.pdf (Bates No. 001082)
- CONFIDENTIAL 01_18_2022_Grid_United_Check_In_vS (1).pdf (Bates No. 001089)
- CONFIDENTIAL 12.10 Presentation.pdf (Bates No. 001094)
- CONFIDENTIAL 2022 July GU Quarterly Working Deck_5JUL22_rehearsal notes.pdf (Bates No. 001140)
- CONFIDENTIAL 220208 Grid United PecosWestIntertie.pdf (Bates No. 001152)
- CONFIDENTIAL EPE Presentation 20211129.pdf (Bates No. 001166)
- CONFIDENTIAL EPE_Grid United_DC Tie Line_EconomicAnalysis_11242021.pdf (Bates No. 001189)
- CONFIDENTIAL ERCOT export scenarios.pdf (Bates No. 001205)

- CONFIDENTIAL Estimated Property Taxes for Pecos West ID No 265219.pdf (Bates No. 001206)
- CONFIDENTIAL Grid United Pecos West Intertie HVDC El Paso Electric ERCOT 20220505.pdf (Bates No. 001207)
- CONFIDENTIAL Grid United- HVDC EPE ERCOT 20220418.pdf (Bates No. 001225)
- CONFIDENTIAL Grid United-HVDC EPE ERCOT 20220504.pdf (Bates No. 001242)
- CONFIDENTIAL Grid United Intro 20211108 whh (Bates No. 001260)
- CONFIDENTIAL Grid United Pecos West Intertie ERCOT 20220505.pdf
- CONFIDENTIAL GU-Pecos West Intertie-11.22.21.pdf
- CONFIDENTIAL hovey price.pdf
- CONFIDENTIAL LCRA Presentation 9-7-21 Final.pdf
- CONFIDENTIAL nFront Service Order One fully executed 012622.pdf (Bates No. 001242)
- CONFIDENTIAL Grid United Pecos West Intertie 202206 (Bates No. 001283)
- CONFIDENTIAL Grid United Pecos West Intertie 20220616 (Bates No. 001306)
- CONFIDENTIAL Grid United Pecos West Intertie 20220726 (Bates No. 001328)
- CONFIDENTIAL Grid United Pecos West Intertie ERCOT 20220505 (Bates No. 001338)
- CONFIDENTIAL Grid United Pecos West Intertie TxPUC 20220606 (Bates No. 001363)
- CONFIDENTIAL Grid United Pecos West Intertie TxPUC 20220613 (Bates No. 001386)
- CONFIDENTIAL Grid United Pecos West Intertie 7 5 22 (Bates No. 001409)
- CONFIDENTIAL Grid United Pecos West Summary 3.24.2022 (Bates No. 001417)
- CONFIDENTIAL Grid United Pecos West Summary 4.12.2022 (Bates No. 001434)
- CONFIDENTIAL Grid United WAPA 20211019 (Bates No. 001449)
- CONFIDENTIAL GU Pecos West (Bates No. 001469)
- CONFIDENTIAL GU-Pecos West Intertie-11.1.21 (Bates No. 001483)
- CONFIDENTIAL GU-Pecos West Intertie-11.22.21 (Bates No. 001485)
- CONFIDENTIAL hovey price (Bates No. 001487)
- CONFIDENTIAL LCRA Presentation 9-7-21 Final (Bates No. 001488)
- CONFIDENTIAL nFront Service Order One fully executed 012622 (Bates No. 001502)
- CONFIDENTIAL Pecos West Intertie ERCOT RPG 20220719 (Bates No. 001508)
- CONFIDENTIAL Pecos West Intertie RPG 20220719 (Bates No. 001526)
- CONFIDENTIAL Pecos West Intertie 11-2-21 EPE (Bates No. 001548)
- CONFIDENTIAL Pecos West Intertie 20211223 (Bates No. 001561)
- CONFIDENTIAL Pecos West Intertie El Paso (Bates No. 001579)
- CONFIDENTIAL Pecos West Presentation 20211213 (Bates No. 001592)
- CONFIDENTIAL Pecos West CIP 4 22vf (Bates No. 001610)
- CONFIDENTIAL Pecos West CIP 5 22 vf (Bates No. 001626)
- CONFIDENTIAL Pecos West CIP capex budget 5 22 vf (Bates No. 001643)
- CONFIDENTIAL Pecos West El Paso Water 7 28 22 v f (Bates No. 001648)
- CONFIDENTIAL Pecos West ERCOT 5 5 vf (Bates No. 001658)
- CONFIDENTIAL Pecos West Fort Bliss 2 22 (Bates No. 001683)
- CONFIDENTIAL Pecos West Ft Bliss 8 5 vf (Bates No. 001689)
- CONFIDENTIAL Pecos West Ft Bliss 8 22 (Bates No. 001702)
- CONFIDENTIAL Pecos West Ft Bliss 8 22 vf (Bates No. 001716)

- CONFIDENTIAL Pecos West_Mercuria_5_3_22_vf (Bates No. 001729)
- CONFIDENTIAL Pecos West Mercuria 5 22 vf (Bates No. 001745)
- CONFIDENTIAL Pecos West TxPUC 5 9 22 v final (Bates No. 001761)
- CONFIDENTIAL Pecos West update 4 28 final (Bates No. 001779)
- CONFIDENTIAL Pecos West update 3 22 final (Bates No. 001795)
- CONFIDENTIAL Pecos West update 4 22 final (Bates No. 001803)
- CONFIDENTIAL Pecos West update 4 28 final (Bates No. 001811)
- CONFIDENTIAL Pecos West update 5 22 final (Bates No. 001826)
- CONFIDENTIAL Pecos West update 6 22 (Bates No. 001835)
- CONFIDENTIAL Pecos West_update_6_22_final (Bates No. 001843)
- CONFIDENTIAL Pecos West update 7 28 22 v f (Bates No. 001852)
- CONFIDENTIAL Pecos West update 8 3 22 v f (Bates No. 001866)
- CONFIDENTIAL Pecos West update 8 22 (Bates No. 001876)
- CONFIDENTIAL Pecos West update Vitol 3 22 (Bates No. 001887)
- CONFIDENTIAL renew curtailment (Bates No. 001904)
- CONFIDENTIAL VSC-HVDC Black Start Summary 03212022 (Bates No. 001905)

 CONFIDENTIAL Transmission Interconnection status tracker September 2nd 2021.xlsx (Bates No. 001909)