

Attachment A - Must-Run Alternative (MRA) Governing Document

Version 1.0

Revision History

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This Governing Document establishes the standards governing the participation of any Must-Run Alternative (MRA) source committed under an agreement between ERCOT and a Qualified Scheduling Entity (QSE) to provide MRA Service as an alternative to ERCOT entering into either a contract with Prime Power Solutions, LLC, dba Life Cycle Power for the use of certain mobile generation units owned by Life Cycle or an Reliability Must-Run (RMR) Agreement with CPS Energy committing Braunig Units 1 &2 for the primary purpose of managing the loading on the Interconnection Reliability Operating Limits (IROL) that may be exacerbated by the planned March 31, 2025 retirement of Braunig Units 1 & 2. For the purposes of this document, such sources providing MRA Service are referred to hereinafter as "MRA Resources."

The Request for Proposal for Must-Run Alternatives to the Life Cycle Power Mobile Generation Solution and Braunig Units 1 & 2 (the MRA RFP) addresses, *inter alia*, the legal framework for ERCOT's administration of the MRA Service solicited in the MRA RFP. Unless otherwise specifically indicated, capitalized terms used in this document should be understood to have the meaning assigned in ERCOT Protocols Section 2.1, Definitions.

1 STANDARDS APPLICABLE TO ALL MRA RESOURCES

1.1 Overview and Description

(1) Eligible MRA resources may include:

A proposed Generation Resource, including an Energy Storage Resource, that was not included in ERCOT's reliability need evaluation conducted pursuant to paragraph (3)(a) of Section 3.14.1.2, or a proposed Generation Resource, including an Energy Storage Resource, with a projected Commercial Operations Date (COD) after April 1, 2025, with such COD determined using the earlier of the COD in RIOO as of April 22, 2024, and the COD in RIOO as of December 18, 2024. Additionally, a Generation Resource is only eligible for an MRA Agreement that ends the day before that projected COD.

- Proposed Generation Resources must adhere to all interconnection requirements, including the requirements of Planning Guide Section 5, Generation Resource Interconnection or Change Request.
- ii. If the proposed Generation Resource is an Intermittent Renewable Resource, the QSE shall provide capacity values based on the Resource's projected quantity that can be sustained for all hours during the term of the MRA agreement.
- (b) A proposed or existing generator registered, or proposed to be registered, with ERCOT as a Settlement Only Generator (SOG) or as Distributed Generation (DG). If the generator is an intermittent renewable generator, the QSE, when responding to an RFP for MRA Service, shall provide capacity values based on the MRA's projected quantity that can be sustained for all hours of the term of the MRA agreement.

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- Proposed Generation Resources must adhere to all interconnection requirements, including the requirements of Planning Guide Section 5, Generation Resource Interconnection or Change Request.
- (c) Any proposed or existing Demand Response asset, which may include a Load Resource or any load that is currently an Emergency Response Service (ERS) Load. Sites may not simultaneously provide MRA service and ERS.
- (2) An MRA resource for which the MRA, or every MRA Site, is metered with either an Advance Meter or an ERCOT-Polled Settlement (EPS) meter must be complete and available for qualification testing no later than 10 days prior to the first day of the contracted MRA Service. All other MRAs must be complete and available for qualification testing no later than 45 days prior to the first day of the contracted MRA Service.
- (3) QSEs may aggregate multiple Sites to constitute an MRA Resource provided that each Site in such an aggregation meets all technical requirements described herein.
- (4) All Sites in an MRA Resource must have the same maximum Demand response ramp period or generator start-up time capabilities.
- (5) All MRA Resources must be available for deployment during the awarded periods.
- (6) Prior to making MRA awards, ERCOT will evaluate each MRA Resource based on its expected impact to reducing overloads on the 345-kV transmission lines that are subject to the South Texas Export Interconnection Reliability Operating Limits (IROLs). In the case of an aggregated MRA Resource, the Site or Sites within the MRA Resource with the least benefit in reducing the constraint overload will serve as the representation of the aggregation as a whole. Accordingly, QSEs are encouraged to aggregate Sites at electrical buses or transmission substations with similar shift factors.
- (7) ERCOT shall analyze 15-minute interval meter data; adjusted for the deemed actual Distribution Loss Factors (DLFs), for each distribution-connected MRA Resource for purposes of offer analysis, availability, and performance measurement, and as described herein and in gray-boxed Protocols Section 3.14.4.6.3, MRA Metering and Metering Data. The interval meter data for MRA Sites located in competitive choice areas will be adjusted by the DLFs used for ERCOT settlement.
- (8) The interval meter data for MRA Sites associated with Unique Meter IDs in NOIE areas will be adjusted based on a NOIE DSP DLF study submitted to ERCOT pursuant to Protocols, Section 13.3, Distribution Losses. If no such study has been submitted, the interval meter data will not be adjusted for distribution losses.
- (9) An MRA Resource may be connected at either transmission or distribution voltage.

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- (10) Each MRA Resource must provide at least five (5) MW of capacity.
- (11) All MRA Sites in an MRA Resource must be of the same type (*i.e.*, all Generation Resource MRA, Energy Storage MRA, Other Generation MRA, or Demand Response MRA).
- (12) The QSE representing an MRA or MRA Site may not submit DAM Offers or carry an Ancillary Service Resource Responsibility or an Emergency Response Service responsibility on behalf of any MRA or MRA Site during the term of the MRA agreement. Demand Response MRAs may not participate in TDSP standard offer programs during the term of the MRA agreement.
- (13) A Combined Cycle Train serving as an MRA must be configured as a single Combined Cycle Generation Resource.
- (14) QSEs representing MRAs shall submit offers using an MRA Offer Submission Form as provided by ERCOT.
- (15) Except for a Forced Outage, any Outage of an MRA during the contracted MRA Service period must be approved by ERCOT.
- (16) For any MRA that is registered with ERCOT as a Resource, the QSE representing the MRA must be the same as the QSE representing the Resource.
- (17) Any QSE representing a Generation Resource MRA or Energy Storage Resource MRA must submit an Energy Offer Curve (EOC) at the System Wide Offer Cap (SWCAP) for all hours during the term of the agreement.

1.2 Communication Requirements

- (1) Each QSE must submit Resource Status information for each MRA Resource the QSE represents, in a manner consistent with the requirements of Protocols Section 3.9.1, Current Operating Plan (COP) Criteria, on a rolling hourly basis covering each of the upcoming 168 hours.
- (2) A QSE representing an MRA Resource shall submit to ERCOT and continuously update an Availability Plan, as defined in Protocols Section 2, Definitions and Acronyms, for each MRA Contracted Hour for the current Operating Day and the next six Operating Days.

1.2.1 Communications Between QSEs and MRA Resources

(1) A QSE representing one or more MRA Resource must be capable of communicating with its MRA Resources in such a way as to allow the MRA Resources to meet their performance criteria in an MRA deployment event.

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- (2) The QSE representing MRA Resources must be capable of receiving and responding to an ERCOT Verbal Dispatch Instructions (VDI) and an Extensible Markup Language (XML) Dispatch Instruction. Each QSE representing a Generation Resource (GR) MRA or Energy Storage Resource (ESR) MRA must be capable of receiving an ERCOT Reliability Unit Commitment (RUC) VDI and Security Constrained Economic Dispatch (SCED) Base Points. The QSE may meet this requirement with either of the following two options:
 - (a) Becoming a WAN Participant by establishing a WAN connection and executing a WAN agreement with ERCOT. For this option, installation, and enablement of the WAN connection at the QSE's Site is the full responsibility of the QSE; or
 - (b) Using an Agency Agreement with a QSE that is a WAN Participant to provide the required communication.
- (3) When ERCOT issues Dispatch instructions regarding the deployment of MRA Resources, QSEs shall instruct their MRA Resources to deploy their contracted capacity. QSEs are fully responsible for communicating Dispatch Instructions to the contracted MRA Resources they represent and ensuring compliance with those instructions.

1.3 Substitutions

1.3.1 General Substitution Provisions

- (1) Subject to approval by ERCOT, a QSE may substitute a new MRA Resource for an awarded MRA Resource in the event that an awarded MRA Resource becomes unable to provide the service. Because ERCOT procured the MRA Resource based in part on its location on the transmission system and its resulting impact to the 345-kV transmission lines that are subject to the South Texas Export IROLs, the impact of the substitute MRA Resource must be greater than or equal to the impact of the originally awarded MRA Resource; otherwise, the substitution will be disallowed by ERCOT. Any substituted resource is subject to the same obligations as the originally awarded MRA Resource.
- (2) ERCOT, at its discretion, may disallow any MRA Resource substitution if it determines that the substitution may cause operational or reliability concerns or is inconsistent with this section.
- (3) The MW capacity and offer prices specified on the various MRA Offer Submission Forms may not be changed for a substitution.

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1.3.2 Substitution Process

- (1) The QSE shall notify ERCOT via email to a dedicated email inbox when an MRA Resource substitution is to occur, subject to ERCOT's approval. The email notification must include the following information:
 - (a) Identification of the awarded MRA Resource for which the substitution is being submitted;
 - (b) Start date and time of the period of substitution;
 - (c) Estimated date and time of the original MRA Resource's return to service; and
 - (d) For a Demand Response MRA Resource, a completed DR MRA Offer Submission Form describing the substituting MRA Resource, which must have an equal or greater effective capacity and same prices as the original Offer Submission Form.
- (2) The start date for a period of substitution may not begin prior to the calendar day following ERCOT's receipt of the notification.
- (3) Submission of the form designating a substitution constitutes a binding commitment to use the substituted MRA Resource to provide MRA Service under the terms of the MRA Agreement.
- (4) The minimum duration for a substitution is one calendar day.

1.3.3 Description of Substituting MRA Resources

- (1) A substituting MRA Resource may include Sites that are part of the original MRA Resource but may not include Sites currently suspended from participation in Ancillary Services or Emergency Response Service.
- (2) An individual MRA Resource may substitute for an aggregated MRA Resource, and vice versa.
- (3) The substituting MRA Resource loads must pass the same ERCOT validations as those required for initial offers and must provide at least the same MRA capacity as the originally awarded MRA Resource. Substituting Demand response MRA Resources must qualify for at least one of ERCOT's six default baseline types.
- (4) The substituting MRA Resource shall not provide MRA services with any capacity that is separately obligated, and receiving a separate reservation payment for such obligation, during the committed hours.
- (5) Substituting MRA Resources may be subject to ERCOT unannounced testing during their period of substitution.

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1.3.4 Compliance

A substituting MRA Resource is subject to MRA deployment throughout the substitution period. In a deployment event, the MRA Resource that is obligated at the time of the event is subject to the deployment requirements.

1.4 Testing

- (1) Testing of an MRA will be conducted consistent with the gray-boxed provisions of Protocols Section 3.14.4.7. However, ERCOT retains discretion on whether to conduct a test of a Demand Response MRA or an Other Generation MRA prior to the initial MRA Contracted Month.
- (2) For the purposes of Section 6.6.6.7, MRA Standby Payment, ERCOT may adjust the testing capacity results for a Generation Resource MRA to reflect conditions beyond the control of the Generation Resource MRA.

1.5 Commitment and Dispatch

- (1) MRA Resources must be capable of being Dispatched by SCED or by an ERCOT Verbal Dispatch Instruction (VDI) and/or an Extensible Markup Language (XML) Dispatch Instruction.
- (2) ERCOT may commit and/or Dispatch an MRA Resource at any time during the term of the MRA Agreement for the purpose of utilizing the MRA Resource's awarded capacity. ERCOT may, at its discretion, deploy all MRA Resources simultaneously or separately. ERCOT's decision to deploy specific MRA Resources as a group may be influenced by the ramp period of the group.
 - (a) Generation Resources and Energy Storage Resources that are MRA Resources shall be committed through the RUC VDI process and/or XML instruction and subsequently dispatched by SCED. Since the MRA Contracted Hours are defined as all hours during the term of the agreement, ERCOT will claw back all payments associated with any injections into the System from a GR or ESR MRA Resource without a deployment instruction, consistent with Protocols Section 6.6.6.10.
 - (b) ERCOT shall dispatch other MRA Resources during deployment events or unannounced tests by means of a VDI and/or via XML Dispatch Instruction. The VDI shall represent the official start of the MRA ramp period.
- (3) By the end of the generation start-up period or ramp period, an MRA Resource shall deploy in accordance with its appropriate performance evaluation methodology as described in this document.

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(4) The official start time of the Demand response ramp period or generator start-up time will be determined by ERCOT staff upon review of the time-stamped recording of the VDI. The start time begins when the ERCOT operator confirms the QSE's repeat back of the instruction.

1.6 Remedies for Material Failure to Perform

Failure by a QSE to meet the performance or availability requirements for the MRA service shall result in a reduction of all or part of the payments to the QSE representing the MRA, in a method substantially similar to that described in gray-boxed Protocols Sections 6.6.6.7, 6.6.6.9, and 6.6.6.10. A Misconduct Event, as described in gray-boxed Protocols Section 3.14.4.8, may result in a charge to the MRA's QSE, in a method substantially similar to that described in gray-boxed Protocols Section 6.6.6.11, MRA Charge for Unexcused Misconduct. An Automatic Default or Other Default Event may result in termination of the applicable MRA Agreement, as specified in the MRA Agreement, and enforcement action by the Public Utility Commission of Texas which may include administrative penalties, among other remedies that may be provided in the MRA Agreement, the MRA Governing Document, and this RFP.

1.7 Force Majeure

Any failure to comply with the requirements of this Governing Document shall be excused if that failure is attributable to a Force Majeure Event, as that term is defined in the Protocols.

1.8 Settlement of All MRA Resources

- (1) Unless specified herein, Settlements of all MRA Resources shall substantially follow the rules described with the gray-boxed Protocols Sections 6.6.6.7, MRA Standby Payment, 6.6.6.9, MRA Payment for Deployment Event, 6.6.6.10, MRA Variable Payment for Deployment, 6.6.6.12, MRA Service Charge, and Section 6.6.6.8, MRA Contributed Capital Expenditures Payment.
- (2) The total MRA payments for the hour will be allocated monthly to QSEs representing loads, based on the hourly load ratio share (HLRS) for each Contracted Hour of the Contract Month.
- (3) The payment and allocation will be done using a Miscellaneous Invoice after the final settlement has occurred for the last Operating Day of each calendar month in the Contract Period.
- (4) ERCOT will utilize existing systems as much as possible to perform Settlements.

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- (5) All costs of relocating generation equipment or any other costs that would become unavoidable as of the effective date of the contract identified in the MRA Agreement shall be included in the Standby Price.
- (6) In the event that ERCOT cancels the MRA Agreement prior to the Stop Date, the unavoidable costs identified in the MRA Agreement that would have been paid through the Standby Payments from the cancellation date to the Stop Date will be paid to the MRA Resource over the last 30 days in the MRA Agreement.

1.9 Contributed Capital Expenditures Payment for All MRA Resources

- (1) MRA Resources may receive a contributed capital expenditure payment as described in gray-boxed Paragraph (2) of Protocols Section 6.6.6.8, MRA Contributed Capital Expenditures Payment.
- (2) Contributed capital expenditures are subject to claw back as described in Protocols Section 3.14.1.16, Reconciliation of Actual Eligible Costs.

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2 PAYMENTS AND STANDARDS APPLICABLE TO GENERATION RESOURCE MRAS AND ENERGY STORAGE RESOURCE MRAS

MRA Resources may include Generation Resource MRAs and Energy Storage Resource MRAs, as defined in gray-boxed provisions in Protocols Section 2, Definitions and Acronyms.

2.1 Payment Methodology for Generation Resource MRAs and Energy Storage Resource MRAs

2.1.1 Standby Payments for Generation Resource MRAs or Energy Storage Resource MRAs

(1) A Generation Resource MRA or an Energy Storage Resource MRA will be compensated for its awarded capacity based on the contracted Standby Price, adjusted by availability and capacity metrics, as described in gray-boxed Protocols Section 6.6.6.7, MRA Standby Payment.

2.1.2 Deployment Event Payments for Generation Resource MRAs or Energy Storage Resource MRAs

- (1) Generation Resource MRAs shall be compensated for a deployment event as described in gray-boxed Paragraph (1) of Protocols Section 6.6.6.9, MRA Payment for Deployment Event, only if the MRA followed ERCOT's commitment instruction.
- (2) Energy Storage Resource MRAs shall be compensated for a deployment event based on the contracted Event Deployment Price, only if the MRA followed ERCOT's commitment instruction.
- (3) Notwithstanding the Fuel Index Price (FIP) used in the calculation of the MRA Payment for Deployment Event, for MRA Generation Resources, the fuel price used to calculate Deployment Event Payments will be based on the fuel type submitted with the Offer Submission Form—i.e., either the FIP or the Fuel Oil Price (FOP) will apply.

2.1.3 Variable Payments for Generation Resource MRA or Energy Storage Resource MRA

- (1) The Variable Payment for Deployment for Generation Resource MRAs shall be compensated as described in gray-boxed Paragraph (1) of Protocols Section 6.6.6.10, MRA Variable Payment for Deployment.
- (2) The Variable Payment for Deployment for Energy Storage Resource MRAs shall be compensated similarly to a Generation Resource MRA, as described in gray-boxed Paragraph (1) of Protocols Section 6.6.6.10, MRA Variable Payment for Deployment, except that the Must-Run Alternative Generation Resource Calculated Variable Payment per QSE per Resource (MRAGRCVP) shall be calculated as the maximum of the contracted variable price or the average cost (\$/MWh) to recharge, multiplied by the

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- minimum of RTMG or contracted capacity. Charging costs will be calculated by ERCOT for energy consumed to recharge after the hours of injection to the ERCOT system during an event deployment and as described in Section 1.10, General Requirement for Compensating Energy Storage MRA Resources for Energy Consumed to Charge, of this document.
- (3) Notwithstanding the calculation of Variable Payments described in paragraphs 1-2 above and in Protocols Section 6.6.6.10, MRA Variable Payment for Deployment, variable payments for MRA Resources that received a RUC Instruction will not include RUC-Make Whole Payments.
- (4) MRA Resources that are dispatched by SCED shall be subject to Base Point Deviation Charges, as described in the ERCOT Protocols.
- (5) MRA Resources that are not dispatched by SCED shall be evaluated for event performance as described in gray-boxed Protocols Section 3.14.4.6.5, MRA Event Performance Measurement and Verification.
- (6) Notwithstanding the Fuel Index Price (FIP) used in the calculation of the MRA Variable Payment for Deployment, for MRA Generation Resources, the fuel price used to calculate the Variable Payments will be based on the fuel type submitted with the Offer Submission Form—i.e., either FIP or the Fuel Oil Price (FOP).

2.1.4 Treatment of Generation Resource MRAs or Energy Storage Resource MRAs in Reliability Unit Commitment (RUC) Capacity Short Settlement

(1) Contracted Generation Resource MRAs or Energy Storage Resource MRAs that have received a RUC Instruction will not have their capacity included when determining RUC Capacity Short Charges for the QSE.

2.1.5 General Requirement for Compensating Energy Storage Resource MRAs for Energy Consumed to Re-Charge

(1) Energy Storage Resource MRAs will be compensated for energy consumed to re-charge the MRA capability after the hours of injection to the ERCOT System during an event deployment or an ERCOT-required Capacity Test based on the cost of the energy as metered by the meter recording Wholesale Storage Load. The QSE will not be compensated for energy costs incurred during a re-test. An Energy Storage Resource shall only consume energy when it is not instructed to be on-line by ERCOT and available for injection, and it must be re-charged to a level sufficient to provide the contracted amount of MRA Service. Additionally, the QSE shall use its best efforts to minimize the cost to re-charge and submit bid-to-buy curves taking into consideration estimates of future prices. The cost to re-charge shall be determined by starting with the least expensive consumed energy.

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2.2 Standards for Generation Resource MRAs or Energy Storage Resource MRAs

- (1) The QSE for a Generation Resource MRA or Energy Storage Resource MRA shall at all times communicate an accurate Resource status to ERCOT via telemetry, consistent with the telemetry requirements for Generation Resources or Energy Storage Resources in the ERCOT Protocols.
- (2) Generation Resource MRAs or Energy Storage Resource MRAs that are dispatched by SCED shall follow SCED Base Point instructions as described in the ERCOT Protocols.
- (3) A Generation Resource MRA or Energy Storage Resource MRA that is On-Line will be subject to dispatch by SCED.
- (4) Data values submitted via COPs are subject to validation using actual 15-minute metered generation.
- (5) Telemetry values are subject to validation using actual 15-minute metered generation.
- (6) The QSE representing a proposed Generation Resource MRA shall submit a Generation Resource MRA Offer Submission Form as part of its RFP proposal.
- (7) The QSE representing a proposed Energy Storage Resource MRA shall submit an Energy Storage Resource MRA Offer Submission Form as part of its RFP proposal.

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3 STANDARDS APPLICABLE TO OTHER GENERATION MRA RESOURCES

3.1 Other Generation MRA Resources

- (1) Other Generation MRAs are ineligible to provide Emergency Response Service (ERS) during the term of any MRA agreement.
- (2) ERCOT reserves the right to reject an offer of a proposed Other Generation MRA that is unregistered generation if, in ERCOT's sole judgment, the unregistered generation could pose a reliability risk. ERCOT's consideration of such a reliability risk includes, but is not limited to, whether the proposed Other Generation MRA lacks voltage or frequency ride-through capability similar to that required of a similar Generation Resource and is large enough to pose a frequency risk.
- (3) The ramp period for an Other Generation MRA is the period of time beginning with ERCOT's issuance of a VDI and/or XML instruction requesting MRA deployment and ending at the time a net injection of the full amount of the contracted capacity (MW) is required to be achieved. The ramp period for an Other Generation MRA Resource shall be 30 minutes.
- (4) Other Generation MRA Resources shall be compensated for a deployment event as described in gray-boxed Paragraph (2) of Protocols Section 6.6.6.9, MRA Payment for Deployment Event, only if the MRA followed ERCOT's commitment instruction.
- (5) The Variable Payment for Deployment for Other Generation MRA Resources shall be compensated as described in gray-boxed Paragraph (2) of Protocols Section 6.6.6.10, MRA Variable Payment for Deployment.

3.2 Offer Submission for Other Generation MRAs

(1) A QSE representing a proposed Other Generation MRA Resource shall submit an Other Generation MRA Offer Submission Form as part of its RFP proposal.

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4 PAYMENTS AND STANDARDS APPLICABLE TO DEMAND RESPONSE MRA RESOURCES

This section of this document describes the requirements for a Demand Response MRA (DR MRA) Resource. All references to "MRA Resource" in this section of this document refer to Demand Response MRA Resources.

4.1 Definitions

The following terms are defined as follows only for the purposes of Section 4 of this Governing Document:

Demand Response MRA Resource – An MRA Resource that meets its MRA performance requirements by reducing Energy consumption in response to an MRA deployment instruction.

Demand Response MRA Resource Offer Capacity – The contracted Load Reduction capacity of a DR MRA Resource.

Interval Metering – Meters measuring energy usage in 15-minute intervals and meeting the requirements applicable to the ERCOT system, including Interval Data Recorders (IDRs) and Advanced Meters, as defined in the Protocols.

Ramp Period – The period of time following ERCOT's issuance of a VDI and/or XML instruction requesting MRA deployment and ending at the time the full amount of the contracted Demand Response capacity (MW) is required to be achieved. The Ramp Period for Demand Response MRA Resources shall be 30 minutes in duration.

Site – Either an individual DR MRA Resource or a member of an aggregated Demand Response MRA Resource.

Unique Meter ID – An Identifier assigned by the QSE to a Site and to the interval data used for the Site for Demand Response MRA performance measurement & verification when the Site is within the service territory of a Non-Opt-In Entity (NOIE) or for a sub-metered load inside a Private Use Network.

4.2 Preliminary Review of Prospective Demand Response MRA Resources

- (1) In order to assist QSEs prior to their submission of MRA offers, ERCOT may provide QSEs, upon request, with an analysis of their prospective Demand Response MRA Resource's consumption patterns.
- (2) ERCOT will provide a QSE with the analysis described under this Section only when the QSE makes its request in conformance with submission requirements and deadline set forth in the relevant MRA RFP.
 - (a) In response to a proper and timely request by a QSE, ERCOT will provide the following information for each prospective Demand Response MRA:

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- (b) Substation identification for each MRA or MRA Site;
- (c) Demand Response MRA baseline options, if the resource qualifies for a default baseline; and
- (d) Historical reference load levels; and
- (e) Any known errors or exceptions, such as whether the MRA or any MRA Sites are currently suspended from participation in another service (e.g., Emergency Response Service (ERS)), whether any listed MRA or MRA Sites have erroneous Electric Service Identifiers (ESI IDs), or whether any prospective MRA or MRA Site lacks sufficient historical meter data.
- (3) A submission by a QSE of a prospective Demand Response MRA does not bind the QSE to submit an offer for MRA Service.

4.3 Payment Methodology for Other Generation and Demand Response MRA Resources

4.3.1 Standby Payments for Other Generation and Demand Response MRA Resources

- (1) Other Generation and Demand Response MRA Resources will be compensated for their awarded capacity based on the contracted Standby Price, adjusted by availability and event and test performance metrics.
- (2) Other Generation and Demand Response MRA Resources' Standby payments are subject to adjustment based on their availability and event or test performance.
 - (a) ERCOT will calculate a Monthly Availability Factor for each Other Generation and a Demand Response MRA Resource as described in gray-boxed Section 3.14.4.6.4 of the ERCOT Protocols.
 - (b) ERCOT will calculate an Event Performance Factor for a Demand Response MRA Resource as described below.
- (3) For purposes of calculating the Availability Reduction Factor (MRAARF), as described in Paragraph (4), Section 6.6.6.7, MRA Standby Payment, the Target Availability (MRATA) shall be set at 100%.

4.3.2 Deployment Event and Variable Payments for Demand Response MRA Resources

(1) Demand Resource MRA Resources shall be compensated for a deployment event as described in gray-boxed Paragraph (2) of Protocols Section 6.6.6.9, MRA Payment for Deployment Event, only if ERCOT issues an MRA commitment instruction.

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(2) The Variable Payment for Demand Response MRA Resources shall be compensated as described in gray-boxed Paragraph (3) of Protocols Section 6.6.6.10, MRA Variable Payment for Deployment.

4.4 Demand Response MRA Resource Identification

- (1) The Demand Response MRA Resource identification submission is an optional first step in the Demand Response MRA Resource offer submittal process. The purpose of the Demand Response MRA Resource identification process is to assist QSEs in preparing their offers by identifying available default baseline types, as described below, and to provide QSEs with an analysis of their prospective Demand Response MRA Resource's consumption patterns. QSEs may submit data relating to any prospective Demand Response MRA Resources to ERCOT using the Demand Response MRA Offer Submission Forms. Resource identification requests may be submitted to ERCOT any time up to seven calendar days prior to the MRA Proposal deadline defined in Section 1.7 of the MRA RFP.
- (2) QSEs submitting a Demand Response MRA Resource identification submission may identify prospective MRA Sites that will make up a Demand Response MRA Resource.
 - (a) A Demand Response MRA Resource may consist of a single Site or multiple Sites.
 - (b) An accurate Site name, street address, and ZIP Code is required for each submitted Site.
 - (c) For Sites in a NOIE territory, the substation identification must be provided.
- (3) The completed MRA Offer Submission Form must include one or more of the following meter identifiers for each submitted Site:
 - (a) An ESI ID number for any Site where an ESI ID is present, including:
 - (i) All Sites situated in competitive choice areas of the ERCOT Region;
 - (ii) A NOIE Settlement metering point if the meter at that point is dedicated to the Site that will be in the Demand Response MRA Resource; or
 - (iii) A non-Settlement ESI ID within a NOIE footprint.
 - (b) A Unique Meter ID for Sites within a NOIE service territory that are not metered by a dedicated Settlement metering point ESI ID or a non-Settlement ESI ID;
 - (c) A sub-metered load within a Private Use Network;
 - (d) Unique Meter IDs must be distinct and must remain consistent throughout the term of the MRA Agreement. Unique Meter IDs for Sites in NOIE service territories should be formatted according to the instructions in the Participation by Sites in NOIE Territories subsection below.

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- (4) In order to evaluate the applicability of a default baseline, ERCOT generally must have access to Sitespecific historic interval meter data pulled within the last 45 days.
 - (a) If such data is not available in the ERCOT systems from an active interval-metered ESI ID, the QSE may submit the data to ERCOT consistent with the specifications detailed in the Metering & Meter Data section of this document. This requirement applies to any Site meeting any of the following descriptions:
 - (i) The Site is in a competitive choice area of the ERCOT Region that does not have sufficient historical interval meter data.
 - (ii) The Site is situated in a NOIE territory.
- (5) For a Site with Distributed Renewable Generation (DRG) or for a Site which is a sub-metered load within a Private Use Network, the QSE may elect to have the Site evaluated solely with its premise-level load as metered by the TDSP or based on the site native load that is served by a combination of the ERCOT grid and the on-site generation. If the QSE elects to have the Site evaluated based on its native load, the native load will be calculated by adding the QSE-submitted generator output to the Site's import load as measured on the TDSP import meter and subtracting the Site's export to the grid as measured on the TDSP export meter. The following requirements also apply:
 - (a) The Site must have signed an interconnection agreement with its TDSP.
 - (b) For a DRG site located in a competitive area of ERCOT, the ESI ID for the Site must have a profile segment assignment in the ERCOT system that indicates the presence of distributed renewable generation as well as interval metering for both import from and export to the ERCOT grid.
 - (c) If the Site is located in a NOIE area of ERCOT, the QSE must arrange with the NOIE TDSP to provide meter data for the Site's import from and export to the ERCOT grid and be consistent with specifications in the section Meter Data for Demand Response MRA Resources in NOIE Territories below
 - (d) QSE must submit 15-minute interval data for the on-site generator output consistent with the specifications in the section Meter Data from sources other than a registered TDSP below.
- (6) ERCOT may request additional meter data (i.e., more than twelve months of data) at its own discretion for prospective loads.
- (7) QSEs should consider the following:
 - (a) A more accurate default baseline model can usually be created for an aggregation than for an individual Site; and

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- (b) Similarly, aggregations with a large number of Sites are typically more likely to be accurately modeled than small aggregations.
- (8) ERCOT will notify the submitting QSE if insufficient historical meter data is available for any Sites in a submitted Demand Response MRA Resource.
- (9) QSEs should provide ERCOT with a list of hours from the previous twelve months that Sites were unavailable, or for which the meter data may not provide an accurate indication of its true load shape, due to factors such as scheduled maintenance or Force Majeure events. ERCOT will exclude these hours in its baseline analysis for the Sites in the Demand Response MRA Resource. For a Load Resource, this list should include hours that it was deployed via ERCOT Dispatch instruction or under frequency relay trip.
- (10) If a Site has had a material change in its energy usage patterns within the preceding twelve months, QSEs should provide a detailed description of such change.
- (11) By submitting an MRA Offer Submission Form for purposes of MRA Resource identification, the QSE affirms that it has obtained full authorization from all Sites within the Demand Response MRA Resource to obtain their historical usage analysis from ERCOT, and that each Customer associated with any Site that is included in the Demand Response MRA Resource holds ERCOT harmless for providing such analysis to the QSE.
- (12) Submission of MRA Site data during this optional first-step Resource identification process and prior to ERCOT's procurement of Demand Response MRA Resources does not bind the QSE or the Demand Response MRA Resource to submit an MRA Proposal or to provide MRA services.
- (13) ERCOT staff will analyze data submitted in the Demand Response MRA Resource identification submission process and will provide the following information to QSEs for each submitted Demand Response MRA Resource:
 - (a) Substation identification for each Site.
 - (b) Demand Response MRA Resource Baseline options which may consist of more than one option, or an indication that the Demand Response MRA Resource as constituted does not qualify for a default baseline. Note: if any errors on the Offer Submission Form are identified, baseline options will not be provided.
 - (i) Statistical results based on historical data for the Demand Response MRA summarizing the historical accuracy level of the baseline load estimates.
 - (ii) QSEs should consult the "Default Baseline Methodology" document posted to the <u>ERS</u>
 Web Page for details in interpreting historical accuracy levels.

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- (c) Historical reference load levels, including the minimum load, 1st percentile, 5th percentile levels and average.
- (d) A report of any errors and exceptions, including, but not limited to the following:
 - (i) Sites currently suspended from participation in Emergency Response Service or in Ancillary Services as a Load Resource;
 - (ii) Sites with erroneous ESI ID numbers; and
 - (iii) Historical interval covering less than twelve months.
- (14) ERCOT will provide these results as promptly as possible throughout the Demand Response MRA Resource identification submission process. QSEs may then use the results of this analysis in either preparing their MRA offers or in constituting their Demand Response MRA Resource.
- (15) During the Demand Response MRA Resource Identification process, ERCOT will notify all affected QSEs of any Site which has been submitted by more than one QSE. QSEs are responsible for resolving any such duplications.

4.5 Offer Submission for DR MRAs

- (1) A QSE representing a proposed DR MRA Resource shall submit a Demand Response MRA Offer Submission Form as part of its RFP proposal.
- (2) For each Demand Response MRA Resource, the QSE shall declare the following values that will be effective for each season for the entire term of the MRA Agreement:
 - (a) The Standby Price shall represent the total expected payment per MW per hour for fulfilling the terms of the MRA agreement and other requirements as specified in this document.
- (3) Regardless of whether the Demand Response MRA Resource was evaluated during the Resource Identification process described above, ERCOT staff will analyze data for each awarded Demand Response MRA Resource and will provide the following information to the submitting QSE:
 - (a) Whether the Demand Response MRA Resource, as submitted, qualifies for a default baseline. If the Demand Response MRA Resource is qualified for a default baseline, ERCOT may include a list of baseline options (may be more than one option).
 - (b) Any error and exception reports, including Sites offered by more than one QSE, Sites currently suspended from participation in Emergency Response Service, Sites with erroneous ESI ID numbers or DUNS numbers, non-interval metering, and/or meter data covering less than twelve months.

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- (c) Statistical results based on the historical data analyzed for the load to determine the applicability of default baselines to assist the QSE in understanding the historical accuracy level of the baseline load estimates. QSEs should consult the "Default Baseline Methodology" document, posted to the <u>ERCOT ERS Web Page</u>, for details in interpreting historical accuracy levels.
- (4) If the Demand Response MRA Resource as offered fails to qualify for a default baseline, ERCOT shall confirm with the offering QSE that the QSE is willing to provide the offered capacity via the Substitution process described above before awarding the offered capacity.
- (5) By submitting a Demand Response MRA Offer, the QSE affirms that it has obtained full authorization from all Sites within the Demand Response MRA Resource to obtain their historical usage analysis from ERCOT, and that each Customer associated with any Site that is included in the Demand Response MRA Resource holds ERCOT harmless for providing such analysis to the QSE.
- (6) Any offer that includes a Site submitted by more than one QSE is subject to rejection by ERCOT.

4.5.1 Baselines for Demand Response MRA Resources

- (1) As described in the Demand Response MRA Resource Identification section of this document, ERCOT will evaluate interval meter data from loads to determine their baseline options.
- (2) A load may qualify for multiple baseline options; in such a case, its QSE may select a baseline from the options offered by ERCOT. The baseline will be used to verify the load's performance as compared to its contracted capacity during an MRA deployment event.
- (3) A selected baseline applies to the Demand Response MRA Resource and, if applicable, its substitution resource, throughout the term of the MRA Agreement.
- (4) All Sites within an aggregated Demand Response MRA Resource must be on the same baseline type.

4.5.1.1 Baselines

(1) The primary goal of a baseline is to accurately estimate a load's level of electric energy usage under "business as usual" conditions – that is, in the absence of an MRA deployment – for any given interval. This estimate can then be compared to the load's interval meter data from an MRA deployment event to determine its performance throughout the Sustained Response Period. Depending on the baseline type, analysis of at least twelve months of historic interval meter data may be necessary for ERCOT to determine whether a load can be modeled accurately under a default baseline.

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- (2) A Demand Response MRA Resource must qualify for one or more options described in the document titled "Demand Response Baseline Methodologies" posted on the ERCOT website, available at the following URL: https://www.ercot.com/services/programs/load. The baseline will be used to verify the Demand Response MRA Resource's performance as compared to its contracted capacity during an MRA deployment event. QSEs and loads may use these methodologies for estimating their own specific baseline for a particular day or event.
 - (a) ERCOT will determine which of the baselining methods described produces the most accurate estimates for each Site by applying the methods to historical non-event days.
 - (b) For a Demand Response MRA Resource that consists of aggregations of Sites, the baseline for the Demand Response MRA Resource is determined by aggregating the baselines across the participating Sites. If, at the aggregate level, ERCOT determines that the historical baseline accuracy (mean absolute difference) is greater than 20% of the offered capacity, the offer will be rejected. ERCOT will verify the performance at the DR MRA Resource level.
 - (c) If, based on historical data, the amount of capacity offered indicates that an availability failure is highly likely, the offer will be rejected.

4.6 Participation by Sites in NOIE Territories

- (1) Sites associated with a Dynamically Scheduled Resource (DSR) may not participate in the MRA RFP. RFP Proposals for Demand Response MRA Resources containing Sites associated with a DSR will be rejected by ERCOT. If ERCOT determines that any participating Site is associated with a DSR, the Site will be treated as removed from the Resource on the date the determination was made. A Demand Response MRA Resource's obligation during an MRA deployment event or test will not change as a result of any such Site removal.
- (2) Sites situated in NOIE service territories are eligible to participate in the MRA.
- (3) Sites within NOIE service territories generally are not assigned an ESI ID within the ERCOT system. Exceptions to this include a Site directly metered by IDR metering at a NOIE Settlement Metering Point, and certain non-Settlement ESI IDs that have been installed by the NOIE TDSP for purposes other than ERCOT Settlement. ERCOT must be able to track the performance history of Non-ESI ID Sites and therefore must have assurance that the Site Identification and Unique Meter ID associated with a Site participating as an MRA Resource must continue to assign the same name to the Site throughout the terms of the MRA Agreement. The QSE representing the Demand Response MRA Resource must not change a Unique Meter ID assigned to a Site participating as a Demand Response MRA Resource throughout the term of the MRA Agreement.

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(4) If a Site in a proposed Demand Response MRA Resource is situated in a NOIE service territory, within 14 days of submission of the proposal to provide MRA Service, ERCOT will contact the TDSP(s) identified by the submitting QSE in the Demand Response Offer Submission Forms to obtain 12 months of premise-level interval meter data. Such data must be provided as a condition of eligibility of each Site in the Demand Response MRA Resource. If a Site was energized within the last 12 months, it may be eligible for participation if it has interval data starting before June 1, 2024, in which case the required data provided by the NOIE TDSP should begin on the Site's energization date. Timely receipt of such interval data from the TDSP(s) is a prerequisite to entering into an agreement to provide MRA Service.

4.7 Participation by Registered Load Resources (LRs)

- (1) The following combinations are ineligible to participate as a Demand Response MRA Resource and will be rejected:
 - (a) For one or more Sites in the Demand Response MRA Resource, the LR QSE is different from the Demand Response MRA Resource QSE;
 - (b) The QSE indicates that an LR is not present, but the ERCOT systems indicate the presence of an active LR at that ESI ID;
 - (c) The QSE indicates a LR is present, but no LR is present in the ERCOT systems at that ESI ID; or
 - (d) The ESI ID field on the Offer Submission Form is blank.
- (2) A Registered Load Resource associated with an ESI ID that is also participating as a Demand Response MRA Resource must not offer to provide Ancillary Services during any of the hours the ESI ID is committed for the MRA. Any such dual commitment will be treated as a breach of the terms of the MRA Agreement.

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5 ADDITIONAL INFORMATION FOR OTHER GENERATION MRA RESOURCES AND DEMAND RESPONSE MRA RESOURCES

(1) ERCOT intends, to the greatest extent possible, to follow gray-boxed Protocols Section 3.14.4.6 for Other Generation MRAs and Demand Response MRAs for metering, availability, and event performance, including without limitation the following sections:

- 3.14.4.6.3 MRA Metering and Metering Data;
- 3.14.4.6.4 MRA Availability Measurement and Verification; and
- 3.14.4.6.5 MRA Event Performance Measurement and Verification.

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