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| **NPRR Number** | [**1294**](https://www.ercot.com/mktrules/issues/NPRR1294) | **NPRR Title** | **Move OBD to Section 22 – Demand Response Data Definitions and Technical Specifications** |
|  | |  | |
| **Date** | | November 17, 2025 | |
|  | |  | |
| **Submitter’s Information** | | | |
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| **Company** | | ERCOT | |
| **Phone Number** | | 512-248-3876 / 512-248-6553 | |
| **Cell Number** | |  | |
| **Market Segment** | | Not Applicable | |

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| --- |
| **Comments** |

ERCOT submits these comments to Nodal Protocol Revision Request (NPRR) 1294, Move OBD to Section 22 – Demand Response Data Definitions and Technical Specifications, to eliminate the need for Excel file Appendices B and C that serve as templates for the Non-Opt-In Entity (NOIE) Submission File and the Retail Electric Provider (REP) Event File. These comments instead clarify data exchange instructions by placing non-Excel (.csv) template instructions within the proposed Attachment S, Demand Response Data Definitions and Technical Specifications.

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| **Market Rules Notes** |

To improve transparency, existing Other Binding Document language for new Section 22, Attachment S, is represented as blackline, with only proposed changes marked as redline.

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| **Revised Cover Page Language** |

None

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| --- |
| **Revised Proposed Protocol Language** |

***3.10.7.2.2 Annual Demand Response Report***

(1) On an annual basis, ERCOT shall work with Market Participants to produce a report summarizing aggregate customer counts and MWs enrolled in Demand response in the ERCOT Region pursuant to subsection (e)(5) of P.U.C. Subst. R. 25.505, Reporting Requirements and the Scarcity Pricing Mechanism in the Electric Reliability Council of Texas Power Region. This report shall be posted to the ERCOT website no later than December 31 of each reporting calendar year. Technical requirements for providing information to ERCOT for the report are located in Section 22, Attachment S, Demand Response Data Definitions and Technical Specifications. ERCOT may, for purposes of this section, associate Entities; however, ERCOT shall not determine Non-Opt-In Entities (NOIEs) to be associated based on their membership in a generation and transmission cooperative or as a result of being a party to a single Load Serving Entity (LSE) registration.

(a) Retail Electric Providers (REPs) in competitive regions of ERCOT shall be ranked in descending order by their average daily consumption for summer (June – September) weekdays excluding holidays. The largest REPs that account for 98% of the total shall be required to participate in the survey for the subsequent calendar year. For purposes of assigning this participation requirement, REPs determined by ERCOT to be associated shall have their consumption aggregated prior to the ranking.

(b) NOIE Transmission and/or Distribution Service Providers (TDSPs) operating in the ERCOT Region that register a summer month (June – September) 15-minute interval peak Demand greater than or equal to 100 MW, shall be required to participate in the survey the subsequent calendar year. For purposes of assigning this participation requirement, NOIEs determined by ERCOT to be associated shall have their 15-minute interval peak Demand aggregated prior to the ranking. Participation in the survey shall be the responsibility of either the NOIE TDSP or the NOIE LSE associated with that TDSP based on which entity is responsible for administering Demand response programs within the NOIE TDSP footprint.

(2) By December 31 of each year, ERCOT shall provide advance notice of participation status. To the extent that REPs discontinue participation in the ERCOT market or change associations prior to the snapshot date, ERCOT will send revised notices to REPs affected by such changes no later than August 1 of the survey year. ERCOT shall:

(a) Analyze the summer consumption for all NOIEs and REPs and determine which are required to participate in the Demand response survey for the following year;

(b) Provide advance notice, via email to the Authorized Representative, to all NOIEs and REPs regarding their participation status; and

(c) Provide a list of all REPs or NOIE TDSPs to the Authorized Representative, including all those determined by ERCOT to be associated, to which the participation status applies.

(3) By August 1 of the survey year, ERCOT shall provide official notice of the beginning of the Demand response data collection process. ERCOT shall:

(a) Issue a Market Notice to notify all REPs and NOIEs that the annual Demand response data collection process is beginning. The Market Notice shall make reference to this Protocol section, and shall reiterate specifics of the timeline for the survey process that are to be followed;

(b) Send a reminder email to the Authorized Representative for all REPs, NOIE LSEs and NOIE TDSPs of their participation status. The email shall also contain the list of all REPs or NOIE TDSPs, for which participation status applies. The list shall include all REPs or NOIE TDSPs determined by ERCOT to be associated. This list shall be updated based on any changes in associations that have occurred since the time the advance notice was issued.

(4) By August 15 of the survey year, REPs and NOIEs that are required to participate in that year’s survey, and that will have Customers participating in one or more Demand response program as of the snapshot date of September 1 shall reply to ERCOT with the following:

(a) An acknowledgement of the participation requirement;

(b) An indication that they expect to have Customers participating in one or more Demand response programs on the snapshot date of September 1;

(c) A list of contact people and their email address within their organization that should receive copies of communications related to the survey from ERCOT;

(d) Specifically for REPs, an indication as to which of the methods described in Section 22, Attachment S, the REP intends to use to submit files to and receive files from ERCOT; and

(e) Specifically for NOIEs, an indication as to whether the NOIE TDSP or the NOIE LSE is responsible for administering the Demand response programs within the NOIE TDSP area.

(5) By August 15 of the survey year, REPs and NOIEs that are required to participate in that year’s survey, and that do not plan to have any Customers participating in Demand response programs as of the snapshot date of September 1 shall reply to ERCOT indicating the lack of such participation. REPs and NOIEs that are not required to participate in that year’s survey are not required to reply to ERCOT.

(6) By October 15 of the survey year, the REPs participating in that year’s survey shall compile the required Electric Service Identifier (ESI ID) participation data in the format specified by Section 22, Attachment S, and submit the data to ERCOT.

(7) By October 31 of the survey year, the REPs participating in that year’s survey that have reported participation in programs which entail REP-initiated deployments shall compile the required deployment event participation data in the format specified by Section 22, Attachment S, and submit the data to ERCOT.

(8) By October 31 of the survey year, the NOIEs participating in that year’s survey shall compile the required data in the format specified by Section 22, Attachment S, and submit the data to ERCOT.

(9) ERCOT shall validate the submitted reports, and indicate any errors and inconsistencies that require correction to the REP or NOIE, within two Business Days of the submission in the manner specified in Section 22, Attachment S.

(10) On or before October 31 of the survey year, REPs shall address the errors and inconsistencies and submit corrected reports to ERCOT. ERCOT will notify the Authorized Representative for each REP and/or NOIE when they have achieved the required level of accuracy.

(11) On or before November 7 of the survey year, NOIEs shall address the errors and inconsistencies and submit corrected reports to ERCOT. ERCOT will notify the Authorized Representative for each REP and/or NOIE when they have achieved the required level of accuracy.

(12) Information provided by NOIEs and REPs to meet the above described reporting requirements shall be treated as Protected Information in accordance with Section 1.3, Confidentiality.

**ERCOT Nodal Protocols**

**Section 22**

**Attachment S: Demand Response Data Definitions and Technical Specifications**

**TBD**



**1. INTRODUCTION**  
  
Paragraph (2) of Section 3.10.7.2.1, Reporting of Demand Response, requires ERCOT to work with Market Participants to produce an annual report summarizing aggregate Customer counts and MWs enrolled in Demand response in the ERCOT Region. This attachment provides specific definitions and technical requirements necessary to conduct the annual ERCOT Demand response data collection process. ERCOT will also annually review reporting processes and look for other methods of obtaining Demand response data, including surveys with similar confidence levels performed by ERCOT staff or educational institutions.

**2. REP SPECIFIC INSTRUCTIONS**

a. **ESI ID Submission to ERCOT**

Retail Electric Providers (REPs) that are classified by ERCOT as having a reporting requirement and that have Electric Service Identifiers (ESI IDs) participating in Demand/price response programs are required to identify each of the ESI IDs for which they are the REP of record on the ERCOT-defined Snapshot Date of September 1 of the survey year and determine which of those ESI IDs were participating in one or more programs that are consistent with the categories described in the ‘Appendix A Category Definitions’ which follows.

The REP shall compile a Comma Separated Value (.csv) file that follows one of the formats described in the ‘Data Exchange Instructions’ section which follows. The REP shall submit the files to ERCOT via North American Energy Standards Board (NAESB) Electronic Delivery Mechanism (EDM) or using the ERCOT-designated secure file sharing application as described in the ‘Data Exchange Instructions’ section below.

b. **ERCOT Validation and Response Files**

ERCOT will validate the .csv files and send response files back to the REP in two Business Days or less, with the results of the validation as described in the ‘Data Exchange Instructions’ section which follows. For REPs that submit files via NAESB, the response files will be sent via NAESB. For REPs that submit files using the ERCOT-designated secure file sharing application , the response files will be sent back to the REP with that application.

REPs shall investigate any errors reported by ERCOT, make necessary corrections and resubmit the complete file with corrections to ERCOT. The required level of accuracy is for 95% of the reporting REP’s ESI IDs submitted to have no errors. REPs shall continue to correct and resubmit files until notified by ERCOT that the REP has achieved the required accuracy level. REPs shall complete this process on or before October 31 of the survey year. ERCOT will notify the Authorized Representative for each REP when they have achieved the required level of accuracy.

c. **ERCOT Provided ESI ID Extract File**

To facilitate the error correction process described above, ERCOT shall provide a ‘DRData\_ESIID\_List’ file to each REP identified as having a reporting requirement. This information will be extracted from ERCOT systems listing all ESI IDs owned by the REP on September 1 of the survey year. Details of this file are provided in the ‘Data Exchange Instructions’ section below. The ERCOT-provided file will also list the REP of record date for that period of ownership, the Profile Group (“RES” or “BUS”) and the Meter Data Type. The file will be specific to each Data Universal Numbering System (DUNS) and will be provided to REPs using the ERCOT-designated secure file sharing application on or before September 11 of the survey year as described in the ‘Data Exchange Instructions’ section below. Due to file size limitations applicable to the ERCOT-designated secure file sharing application ERCOT will partition files accordingly. ERCOT will also honor size restrictions for REPs; REPs with file size restrictions must inform ERCOT as to the maximum file size.

d. **REP Event File Submission**

In conjunction with the ‘Participation Requirements’ section above, REPs identified as having a reporting requirement and that have programs that entail specific deployment events shall complete and submit event surveys for those programs. The program categories for which deployment event details are applicable are as follows: 4CP Advise-Control; CPP – Critical Peak Pricing; PR – Peak Rebate; OLC – Other Direct Load Control; and OTH – Other Voluntary Demand Response Product.

Details of the DRDataREPEvents file are provided in the ‘Data Exchange Instructions’ section below. Event surveys shall be submitted to ERCOT between October 1 and October 31 of the survey year and should report on all events from October 1 of the prior year through September 30 of the survey year. Note: ERCOT’s analysis is limited to events during the summer months, but it is important to flag events at other times so they are not used in calculating baselines. If a REP has participation in one of the above listed categories and has not deployed that program, the event survey still must be submitted stating this.

e. **REP Reporting Considerations**

i. If an ESI ID is participating in more than one program or is participating in a program with a definition that spans multiple categories, the REP must list the ESI ID once for each category.

ii. If an ESI ID is participating in a program and fails to reduce Load or opts-out of any or all deployments, the ESI ID still should be included in the file submitted to ERCOT. If a program has not been deployed for the reporting period, or is deployed for only some of the participants, all ESI IDs that could have been deployed should be included in the file.

iii. If an ESI ID is enrolled as a Load Resource or is participating in Emergency Response Service (ERS) and is only deployed by ERCOT instruction, the ESI ID should not be reported as participating in one of the REP’s programs.

iv. If an ESI ID is enrolled by a REP in a Transmission and/or Distribution Service Provider (TDSP) sponsored Standard Offer Load Management program and is only deployed by the TDSP, the ESI ID should not be reported as participating in one of the REP’s programs.

v. ESI IDs that participate in an ERCOT or TDSP program and also participate in a REP Demand/price response program should be reported as participating in the applicable REP program. For such ESI IDs, deployment event reporting should be limited to deployments initiated by the REP and unrelated to ERCOT/TDSP deployments.

vi. The ‘Direct Load Control Indicator’ field documented in the ‘REP Files Sent to ERCOT’ section should be submitted with a value of either ‘Y’ or ‘N’ for an ESI ID in conjunction with one of the program categories. A value of ‘Y’ should be used to indicate that the REP, or a 3rd party on behalf of the REP, has the ability to exercise direct control of electrical equipment behind the Customer’s meter to effectuate the Demand/price response.

1. For example, if the Customer is participating in the REP’s Peak Rebate program, and is paid the rebate based on the amount of Load reduction associated with direct control by or on behalf of the REP, the ‘Direct Load Control Indicator’ should be set to ‘Y’.

2. If the REP, or third party, can directly initiate a deployment, and the Customer has the ability to opt-out of a deployment, the ‘Direct Load Control Indicator’ should be set to ‘Y’.

3. If, on the other hand, the Demand/price response is under the Customer’s control, the ‘Direct Load Control Indicator’ should be set to ‘N’.

**3. NOIE SPECIFIC INSTRUCTIONS**

* 1. **Demand Response Survey Submission to ERCOT**

Non-Opt-In Entities (NOIEs) that are classified by ERCOT as having a reporting requirement and that have Customers participating in Demand/price response programs are required to complete and submit NOIE Demand Response Participation and Event Surveys to ERCOT between October 1 and October 31 of the survey year and, if applicable, should report on all events from October 1 of the prior year through September 30 of the survey year. Note: ERCOT’s analysis is limited to events during the summer months, but it is important to flag events at other times so they are not used in calculating baselines. Details of the DRDataCollectionNOIEParticipation and DRDataCollectionNOIEEvent files are provided in the ‘Data Exchange Instructions’ section below.

The participation survey should be completed by indicating the number of residential and non-residential Customers participating in each of the programs as of September 1 of the survey year. The event survey should be completed for each deployment event by providing details on specific deployment events.

* 1. **NOIE Reporting Considerations**

i. If a Customer is participating in more than one program or is participating in a program with a definition that spans multiple categories, the NOIE should include that Customer in the counts for all such programs.

ii. If a Customer is participating in a program and fails to reduce Load or opts-out of any or all deployments, the Customer still should be included in the counts for that program.

iii. If a program has not been deployed for the reporting period, or is deployed for only some of the participants, all Customers that could have been deployed should be included in the counts for that program.

iv. If a Customer is enrolled as a Load Resource or is participating in Emergency Response Service (ERS) and is only deployed by ERCOT instruction, the Customer should not be counted as participating in one of the NOIE’s programs.

v. Customers that participate as a Load Resource or in ERS and also participate in a NOIE Demand/price response program should be counted as participating in the applicable NOIE program. For such participation, deployment event reporting should be limited to deployments initiated by the NOIE.

vi. NOIEs that administer Conservation Voltage programs may not have accurate counts of Customers that are affected for specific activation events. In such cases, NOIEs should provide estimated counts of Customers, and advise ERCOT via email that estimated counts are being provided.

**4. DATA EXCHANGE INSTRUCTIONS**

a. **File Exchange Methods**

i. NAESB: This method has been used previously by Retail Electric Providers (REPs) and continues to be available to them. This method provides for secure file exchange both inbound to and outbound from ERCOT. For REPs that opt to use this method, the North American Energy Standards Board (NAESB) file exchange will be used in both directions. The file naming conventions and file formats are described below.

ii. ERCOT-designated secure file sharing application: This method should be used by Non-Opt-In Entities (NOIEs) to submit their Demand Response Surveys securely to ERCOT. The method should be used by REPs to submit their REP event survey files and may also be used by REPs to securely send and receive Electric Service Identifier (ESI ID) participation files to and from ERCOT as an alternative to using NAESB. To establish this sharing capability ERCOT will send a sample file to the email addresses of the contact names provided by each NOIE and requesting REP. The recipient will receive an automated email with a link to register to use the application and to have access to download the file. Recipients will then be able to securely send files to and receive files from ERCOT.

b. **File Name and Format Conventions**

i. **NOIE Files Sent to ERCOT**

NOIEs must send DRDataCollectionNOIEParticipation and DRDataCollectionNOIEEvent files to ERCOT via the ERCOT-designated secure file sharing application and are required to follow the file format and content specifications shown in the tables below. Note: data elements should be separated with pipes (‘|’) as the delimiter.

**1. NOIE Participation File**: This file is used by NOIEs to report counts of Customers in the various categories of Demand response.

1. **File Naming Convention**: DRDataCollectionNOIEParticipation files are required to follow the naming convention shown below:

| DUNs | Report Name | Date/Time

0000000000000DRDataCollectionNOIEParticipation20201023152515.csv

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| DUNS | NOIE Data Universal Numbering Systems (DUNS) Number | Numeric (9 or 13) |
| Report Name | ‘DRDataCollectionNOIEParticipation’ | Alphanumeric (33) |
| Date/Time | File transmission date/time stamp | Datetime format =  ccyymmddhhmmss |
| .csv | Value of .csv mandatory in file name |  |

b. **NOIE Participation File Specifications**

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| Category Code | Category of Demand response product in which the ESI ID is participating.  (The acceptable codes shown below) | Alpha numeric (4) |
| Residential Customers | The total number of Residential Customers participating as of the snapshot date. | Numeric (8) |
| Non-Residential Customers | The total number of Non-Residential Customers participating as of the snapshot date. | Numeric (8) |
| Residential Customers Other Programs | The total number of Residential Customers participating on a different program. | Numeric (8) |
| Non-Residential Customers Other Programs | The total number of Residential Customers participating on a different program. | Numeric (8) |

**Category Code Descriptions  
(Detailed category descriptions are provided in Appendix A, Category Descriptions)**

|  |  |
| --- | --- |
| **Category Code** | **Category Description** |
| 4CPI | 4-Coincident Peak – Incentive |
| 4CPA | 4-Coincident Peak – Advise-Control |
| CPP | Critical Peak Pricing |
| CVR | Conservation Voltage Reduction |
| IRT | Indexed Real Time |
| IDA | Indexed Day Ahead |
| IOT | Indexed Other |
| OLC | Other Direct Load Control |
| OTH | Other Voluntary Demand Response Product |
| PR | Peak Rebate |
| TOU | Time of Use |

c. **Example** DRDataCollectionNOIEParticipation **file**

4CPI|500|100|50|60|

4CPA|900|0|500|0|

OLC|2000|0|2000|0|

**2. NOIE Event File**: This file is used by NOIEs to report counts of Customers participating in deployment events for the various categories of Demand response.

1. **File Naming Convention**: DRDataCollectionNOIEEvent files are required to follow the naming convention shown below:

| DUNs | Report Name | Date

0000000000000DRDataCollectionNOIEEvent20201023152515.csv

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| DUNS | NOIE Data Universal Numbering Systems (DUNS) Number | Numeric (9 or 13) |
| Report Name | ‘DRDataCollectionNOIEEvent’ | Alphanumeric (33) |
| Date/Time | File transmission date/time stamp | Datetime format =  ccyymmddhhmmss |
| .csv | Value of .csv mandatory in file name |  |

b. **NOIE Event File Specifications**

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| Category Code | Category of Demand response product in which the Customers are participating.  (The acceptable codes shown below) | Alpha numeric (3) |
| Deployment Date | The date the program was actually deployed. If advance notice was provided on a prior date, report actual date of deployment. | Date format =  ccyymmdd |
| Deployment Begin Time | The time the curtailment was to begin. If advance notice was provided at a prior date/time, report time the curtailment was to begin. | Time format =  hhmm |
| Deployment End  Time | The time the curtailment was to end. | Time format =  hhmm |
| Residential Customers | The total number of residential ESI IDs deployed even if cycling was used. | Numeric (8) |
| Non-Residential Customers IDs | The total number of non-residential ESI IDs deployed even if cycling was used. | Numeric (8) |

**Category Code Descriptions  
(Detailed category descriptions are provided in Appendix A, Category Descriptions)**

|  |  |
| --- | --- |
| **Category Code** | **Category Description** |
| 4CPI | 4-Coincident Peak – Incentive |
| 4CPA | 4-Coincident Peak – Advise-Control |
| CPP | Critical Peak Pricing |
| CVR | Conservation Voltage Reduction |
| OLC | Other Direct Load Control |
| OTH | Other Voluntary Demand Response Product |
| PR | Peak Rebate |

c. **Example** DRDataCollectionNOIEEvent **file**

4CPI|20250701|1500|1800|500|100|

4CPA|20250701|1500|1800|500|100|

PR|20250701|1500|1600|500|100|

OLC|20250701|1500|1600|1000|0|

ii. **REP Files Sent to ERCOT**

1. **REP Event Survey**: This file is used by REPs to report the details of any deployment events associated with the REP’s Demand response programs. Deployment events between the snapshot date of the prior survey and the snapshot date of the current year survey must be reported. If no deployment events occurred, the REP must send a blank file to ERCOT. REPs must send files to ERCOT via the ERCOT-designated secure file sharing application using the file template provided below.

a. **File Naming Convention**: DRDataREPEvents files are required to follow the naming convention shown below:

| DUNs | Report Name | Date

0000000000000DRDataREPEvents20201023152515.csv

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| DUNS | Competitive Retailer (CR) DUNS Number | Numeric (9 or 13) |
| Report Name | ‘DRDataREPEvents’ | Alphanumeric (15) |
| Date/Time | File transmission date/time stamp | Datetime format =  ccyymmddhhmmss |
| .csv | Value of .csv mandatory in file name |  |

b. **ERCOT-Designated Secure File Share**: REPs must send DRDataREPEvents files to ERCOT via the ERCOT-designated secure file sharing application and are required to follow the file format and content specifications shown in the table below. Note: data elements should be separated with pipes (‘|’) as the delimiter.

c. **DRDataREPEvents File Specifications**

|  |  |  |
| --- | --- | --- |
| **Column Heading** | **Comments** | **Format** |
| Category Code | Category of Demand response product in which the ESI ID is participating.  (The acceptable codes shown below) | Alpha numeric (3) |
| Deployment Date | The date the program was actually deployed. If advance notice was provided on a prior date, report actual date of deployment. | Date format =  ccyymmdd |
| Deployment Begin Time | The time the curtailment was to begin. If advance notice was provided at a prior date/time, report time the curtailment was to begin. | Time format =  hhmm |
| Deployment End  Time | The time the curtailment was to end. | Time format =  hhmm |
| Residential ESI IDs | The total number of residential ESI IDs deployed even if cycling was used. | Numeric (8) |
| Non-Residential ESI IDs | The total number of non-residential ESI IDs deployed even if cycling was used. | Numeric (8) |
| Cycling Strategy (if applicable) | If cycling was used, provide a brief description of the strategy. Otherwise specify NA (not applicable) | Alphanumeric (100) |
| Comments | Any clarifying comments about the program Otherwise specify NA (not applicable) | Alphanumeric (100) |

**Category Code Descriptions  
(Detailed category descriptions are provided in Appendix A, Category Descriptions)**

|  |  |
| --- | --- |
| **Category Code** | **Category Description** |
| 4CP | 4-Coincident Peak – Advise-Control |
| CPP | Critical Peak Pricing |
| PR | Peak Rebate |
| OLC | Other Direct Load Control |
| OTH | Other Voluntary Demand Response Product |

d. **Example DRDataREPEvents file**

PR|20250701|1500|1600|500|100|NA|NA|

OLC|20250701|1500|1600|1000|0|NA|NA|

4CP|20250701|1500|1600|0|20|NA|NA|

2. **DRDataCollection**: REPs should use files with this report name to send information to ERCOT regarding ESI ID participation in the various categories of price and Demand response. The format of the file is determined by whether the REP sends the file via NAESB or via the ERCOT-designated secure file sharing application .

a. **File Naming Convention**: DRDataCollection files (both the ERCOT-designated secure file sharing application and NAESB) are required to follow the naming convention shown below:

| DUNs | Report Name | Date/Time | Counter

0000000000000DRDataCollection20201023113001999.csv

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| DUNS | CR DUNS Number | Numeric (9 or 13) |
| Report Name | ‘DRDataCollection’ | Alphanumeric (16) |
| Date/Time | File transmission date/time stamp | Datetime format =  ccyymmddhhmmss |
| counter | Counter (optional - may be used by REP for internal tracking) | Numeric (3) |
| .csv | Value of .csv mandatory in file name |  |

b. **ERCOT-Designated Secure File Share**: REPs that chose to send files to ERCOT via the ERCOT-designated secure file sharing application are required to follow the file format and content specifications shown in the table below. Note: data elements should be separated with pipes (‘|’) as the delimiter.

**ERCOT-Designated Secure File ShareDRDataCollection File Specifications**

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| ESI ID Number | The ESI ID is the basic identifier assigned to each Service Delivery Point (SDP). | Alpha numeric (36) |
| Category Code | Category of Demand response product in which the ESI ID is participating.  (The acceptable codes shown below) | Alpha numeric (3) |
| Direct Load Control Indicator | Y or N – If the Demand response can be initiated by Load Serving Entity (LSE) or 3rd party (other than the Customer) | Alpha numeric (3) |
| Start Date | The date the ESI ID commenced participation in this category | Numeric (8) yyyymmdd |

c. **Example ERCOT-Designated Secure File Share DRDataCollection file**

1001001001001|PR|Y|20120701|

1001001001023|PR|Y|20120715|

1001001001045|TOU|Y|20130201|

1001001001045|PR|Y|20130201|

d. **NAESB**: REPs that chose to send files to ERCOT via NAESB are required to follow the file format and content specifications as shown in the tables below. Note: data elements should be separated with pipes (‘|’) as the delimiter. Three record types are applicable to DRDataCollection files sent via NAESB: header record; detail record; and summary record.

At a minimum the filename must contain \*.csv\* after decryption otherwise the file will be rejected by ERCOT. Files will be sent with a NAESB input-format of “FF”. Any file extension other than .csv, such as .xml or .x12 will fail at ERCOT.

i. **Header Record** – One must be present and must be the first record in the file.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record  Type | Mandatory | Hard Code “HDR” | Alpha numeric (3) |
| Report Name | Mandatory | Hard Code “DRDataCollection” | Alpha numeric (16) |
| Report ID | Mandatory | The unique report number designated by the sender to be used in the DRDataCollectionERCOTResponse and DRDataCollectionERCOTValidation files. | Alpha numeric |
| REP DUNS Number | Mandatory | REP of record DUNS Number. Associated with the ESI IDs sent in the file. | Numeric  (9 or 13) |

ii. **Detail Record** - The DET record contains the ESI ID level Demand response information.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “DET” | Alpha numeric (3) |
| Record Number | Mandatory | The unique sequential record number starting with “1” | Numeric (8) |
| REP DUNS Number | Mandatory | REP of record DUNS Number associated with the ESI IDs sent in the file. | Numeric  (9 or 13) |
| ESI ID Number | Mandatory | The ESI ID is the basic identifier assigned to each SDP. | Alpha numeric (36) |
| Category Code | Mandatory | Category of Demand response product in which the ESI ID is participating.  (The acceptable codes shown below) | Alpha numeric (3) |
| Direct Load Control Indicator | Mandatory | Y or N – If the Demand response can be initiated by LSE or 3rd party (other than the Customer) | Alpha numeric (1) |
| Start Date | Mandatory | The date the ESI ID commenced service in this category | Numeric (8) yyyymmdd |

iii. **Summary Record** – This record shows the number of DET records in the file.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “SUM” | Alpha numeric (3) |
| Total Number of DET Records | Mandatory | Total number of DET records, should be equal to the Record Counter in the last DET record. Use zero if no records sent. | Numeric (8) |

**Category Code Descriptions  
(Detailed category descriptions are provided in Appendix A, Category Descriptions)**

|  |  |
| --- | --- |
| **Category Code** | **Category Description** |
| 4CP | 4-Coincident Peak – Advise-Control |
| IRT | Indexed to Real-Time Prices |
| IDA | Indexed to Day-Ahead Prices |
| IOT | Indexed to Other Market Price |
| CPP | Critical Peak Pricing |
| PR | Peak Rebate |
| TOU | Time of Use – All Periods with Charge |
| FDH | Free Days and/or Time Periods |
| OLC | Other Direct Load Control |
| OTH | Other Voluntary Demand Response Product |

e. **Example NAESB DRDataCollection file**

HDR|DRDataCollection|200608300001|123456789

DET|1|123456789|1001001001001|PR|Y|20120701|

DET|2|123456789|1001001001023|PR|Y|20120715|

DET|3|123456789|1001001001045|TOU|Y|20130201|

DET|4|123456789|1001001001045|PR|Y|20130201|

SUM|4|

iii. **Files Sent from ERCOT to REPs**

* + - 1. **DRData\_ESIID\_List File:**

This file shall be provided prior to September 11 of the survey year to all REPs with a reporting requirement to assist with their capability to pre-validate the files they submit to ERCOT. The file includes all ESI IDs in ERCOT’s Settlement system active and owned by REP on the Snapshot Date; the file excludes ESI IDs with either an NMLIGHT or NMFLAT profile code. The file contains additional information that may be used by the REP to pre-validate a DRDataCollection file before submitting it to ERCOT.

ERCOT will distribute the file using the ERCOT-designated secure file sharing application. The file will be distributed to the requester’s email address and other email addresses copied on the requesting email. For REPs with a large number of ESI IDs this will be posted as a .zip file and/or partitioned into smaller files. REPs with file size limitations should inform ERCOT about those limitations.

|  |  |  |
| --- | --- | --- |
| **Data Element** | **Comments** | **Format** |
| ESI ID Number | The ESI ID is the basic identifier assigned to each SDP. | Alpha numeric (36) |
| REP\_Start | Date the REP first took ownership of the ESI ID for the period of ownership including the Snapshot Date. | Numeric (8) yyyymmdd |
| NIDR\_Start | Start date (on or after REP\_Start) for the most recent period when a Non-Interval Data Recorder (NIDR) meter was in use. | Numeric (8) yyyymmdd |
| IDR\_Start | Start date (on or after REP\_Start) for the most recent period when an Interval Data Recorder (IDR) meter was in use. | Numeric (8) yyyymmdd |
| RES\_PROF\_Start | Start date (on or after REP\_Start) for the most recent period when a Residential Profile Code was assigned. | Numeric (8) yyyymmdd |
| BUS\_PROF\_Start | Start date (on or after REP\_Start) for the most recent period when a Non-Residential Profile Code was assigned. | Numeric (8) yyyymmdd |
| 4CP\_Start | Start date (on or after REP\_Start) for the most recent period when a Customer was subject to 4CP billing. | Numeric (8) yyyymmdd |

a. The following validation checks should be considered by a REP prior to sending a DRDATACollection file to ERCOT:

i. An ESI ID submitted as participating on a program should be on the list.

ii. The program start date in the DRDATACollection file for an ESI ID should not precede the REP\_START date for that ESI ID.

iii. For programs requiring the use of interval data (Indexed – Real Time; Indexed – Day Ahead; Critical Peak Pricing; Peak Rebate) the program start date should not precede the IDR\_START and the IDR\_START should not precede the NIDR\_START.

iv. ESI IDs submitted as participating on a 4CP program should have:

1. A non-blank BUS\_PROF\_START;

2. The BUS\_PROF\_START should not precede the RES\_PROF\_START; and

3. The program start date should not precede BUS\_PROF\_START.

b. **Example DRData\_ESIID\_List File:**

ESIID|REP\_START|NIDR\_START|IDT\_START|RES\_PROF\_START|BUS\_PROF\_START

1001001001001|19JAN2019|---------|19JAN2019|19JAN2019|---------

1001001001023|09APR2010|09APR2010|05NOV2010|09APR2010|---------

2. **DRDataCollectionERCOTResponse<counter> File:**

This file is the initial response from ERCOT back to a REP upon receipt of a ‘DRDataCollection’ file from that REP. The file contains information as to the status of the data submitted including any file format or mandatory data element errors. If the submitted file name has a counter appended by the REP, the response file will use the same counter. The file formats and field descriptions are as described below.

a. **Header Record** – One must be present and must be the first record in the file.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “HDR” | Alpha numeric  (3) |
| Report Name | Mandatory | Hard Code “DRDataCollectionERCOTResponse” | Alpha numeric (29) |
| Original Report ID | Mandatory | Report ID as sent in the  DRDataCollection file. | Alpha numeric |
| REP DUNS Number | Mandatory | REP of record DUNS Number receiving this response report information based on the original file submission. | Numeric  (9 or 13) |

b. **ER1 Record** – Used to designate a record with an invalid value or format, with a reference to the record number in the submitted file that contained the error.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “ER1” | Alpha numeric (3) |
| Record Number | Mandatory | The unique sequential record number starting with “1” | Numeric (8) |
| ESI ID Number | Mandatory | The ESI ID is the basic identifier assigned to each SDP. | Alpha numeric (36) |
| Original Record Type | Mandatory | The type of record in error. Valid values are DET, HDR, and SUM. | Alpha numeric (3) |
| Original Record Number | Conditional | Original DET Record Number sent from DRDataCollection file that is in error. Required if Original Record Type is DET. | Numeric (8) |
| Field Name | Mandatory | Field name in record that is in error. | Alpha numeric (80) |
| Error Description | Mandatory | Description of error. | Alpha numeric (80) |

c. **ER2 Record** – Used to designate a record with a missing mandatory field, with a reference to the record number in the submitted file that contained the error.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “ER2” | Alpha numeric (3) |
| Record Number | Mandatory | The unique sequential record number starting with “1” | Numeric (8) |
| ESI ID Number | Mandatory | The ESI ID is the basic identifier assigned to each SDP. | Alpha numeric (36) |
| Original Record Type | Mandatory | The type of record in error. Valid values are DET, HDR, and SUM. | Alpha numeric (3) |
| Original Record Number | Conditional | Original DET Record Number sent from DRDataCollection file that is in error.  Required if Original Record Type is DET. | Numeric (8) |
| Field Name | Mandatory | Field name of record that is in error. | Alpha numeric (80) |
| Error Description | Mandatory | Description of error. | Alpha numeric (80) |

d. **Sum Record** – Provides the sum of all records received in the original file, the number of records processed, and the number of DET records in error.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard code “SUM” | Alpha numeric (3) |
| Total Number of DET Records | Mandatory | Total number of DET records in the original DRDataCollection file. | Numeric (8) |
| Total Number of processed DET Records | Mandatory | Total number of DET records processed without error from the DRDataCollection file. | Numeric (8) |
| Total Number of Error Records | Conditional | Total number of DET records in error. | Numeric (8) |

e. **Example DRDataCollection\_ERCOTResponse File:**

HDR|DRDataCollectionERCOTResponse|200608300001|123456789

ER2|1|1001001001001|DET|1|StartDate|InvalidValue

SUM|5|4|1|

3. **DRDataCollectionERCOTValidation<counter> File:**

This file is an additional response from ERCOT back to a REP upon receipt of a ‘DRDataCollection’ file for which the DRDataCollectionERCOTResponse file reported no errors. The file contains information as to the status of any business validation errors. If the submitted file name had a counter appended by the REP, the validation file will use the same counter. The file formats and field descriptions are as described below.

a. **Header Record** – One must be present and must be the first record in the file.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “HDR” | Alpha numeric (3) |
| Report Name | Mandatory | Hard Code “DRDataCollectionERCOTValidation” | Alpha numeric (31) |
| Original Report ID | Mandatory | Report ID as sent in the  DRDataCollection file. | Alpha numeric |
| REP DUNS Number | Mandatory | REP of record DUNS Number receiving this response report information based on the original file submission. | Numeric (9 or 13) |

b. **ER3 Record** – Used to designate a record that failed data validation with a reference to the original record in error.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard Code “ER3” | Alpha numeric (3) |
| Record Number | Mandatory | The unique sequential record number starting with “1” | Numeric (8) |
| ESI ID Number | Mandatory | The ESI ID is the basic identifier assigned to each SDP. | Alpha numeric (36) |
| Original Record Type | Mandatory | The type of record in error. Valid values are DET, HDR, and SUM. | Alpha numeric (3) |
| Original Record Number | Conditional | Original DET Record Number sent from DRDataCollection file that is in error.  Required if Original Record Type is DET. | Numeric (8) |
| Field Name | Mandatory | Field name of record that is in error. | Alpha numeric (80) |
| Error Description | Mandatory | Description of error. | Alpha numeric (80) |

c. **Sum Record** – Used to provide the sum of all records received in the original file, the number of records processed, and the number of DET records in error.

| **Data Element** | **Mandatory / Optional** | **Comments** | **Format** |
| --- | --- | --- | --- |
| Record Type | Mandatory | Hard code “SUM” | Alpha numeric (3) |
| Total Number of DET Records | Mandatory | Total number of DET records in the original DRDataCollection file. | Numeric (8) |
| Total Number of processed DET Records | Mandatory | Total number of DET records processed without error from the DRDataCollection file. | Numeric (8) |
| Total Number of Error Records | Conditional | Total number of DET records in error. | Numeric (8) |

d. **Error Descriptions (ERCOT to REP -- the ER3 Record) and Common Fixes**

|  |  |  |
| --- | --- | --- |
| **Error Description** | **Long Description** | **Common Fixes** |
| Invalid-ESI ID | ESI ID is not in ERCOT settlement system or as of Snapshot Date has an Inactive or De-energized Status | Check that all significant digits of ESI ID were reported and none inadvertently set to zero with copying/pasting processes.  Check that ESI ID is a valid ESI ID and is currently active.  If ESI ID is not valid or not active, remove row. |
| Not-ROR | Reporting REP is not the REP of record as of Snapshot Date | Check if the submitting REP was the REP of record for ESI ID on the Snapshot Date.  If not the REP of record, remove row. |
| Start-Date-After-Snap-Shot | Start date for ESI ID is after the specified Snapshot Date | Check start date of program.  If ESI ID started on the program after the Snapshot Date, remove record from file. Otherwise, correct the start date of the program for the ESI ID. |
| **If any of the above errors apply to a row, no further validations are performed for the row.** | | |
| Start-Date-Before-ROR | ERCOT settlement system indicates the reporting REP was not the REP of record during the reported program start month | Check the date submitted for when the ESI ID started participating on the program.  Change the date to one that is on or after the REP of record month for the ESI ID. For example, REP reports start date as 12/1 but ERCOT records indicate the REP of record date to be 12/20. This row will be accepted by ERCOT since the reported start date is in the same month. |
| Invalid-Start-Date | A REP other than the submitting REP was the REP of record for more than 30 days between the program Start Date and the Snapshot Date | Check if submitting REP was the REP of record for ESI ID for all days from the reported program start date to Snapshot Date.  Change the program start date to one that is on or after the REP of record date for the period of ESI ID ownership which includes the Snapshot Date.  Note: the 30 day allowance is intended to account for and disregard any inadvertent gains. |
| 4CP-Wrong-LP | ERCOT settlement system indicates the Profile Type for ESI ID not BUS for one or more days between the program Start Date and the Snapshot Date, or that the ESI ID has not had a peak Demand of 700 kW or greater | Check ESI ID Profile Type, must be BUS for all days from the Start Date to the Snapshot Date.  Change the programs Start Date to one for which the profile code is BUS for all days up to and including the Snapshot Date.  If the Profile Type is not BUS on the Snapshot Date, delete the row.  Note: if profile is BUS, ERCOT checks peak kW for the ESI ID. If less than 700 kW, the error is issued. |
| Invalid-LP | Profile Type for ESI ID is NMLIGHT or NMFLAT | Check ESI ID Profile Type, must be RES, BUS or BUSIDRRQ for all days from the Start Date to the Snapshot Date.  If the Profile Type is NMLIGHT or NMFLAT on the Snapshot Date, delete the row. |
| Invalid-Meter | Category Code is IRT, IDA, IOR, CPP, or PR for ESI ID with Meter Type NIDR | Check ESI ID Profile Meter Type, must be IDR all days from the Start Date plus five days to the Snapshot Date.  If the Profile Meter Type on the Snapshot Date is NIDR, delete the row. |
| Duplicate-Row | Input record is identical to a previous record except for sequence number | Remove duplicate row. |
| Matching-Consecutive-Category/DLC-Codes | Input record is identical to the previous chronological record, based on start date, except for sequence number and start date | Remove matching row (with incorrect program start date). |

e. **Example 1 – REP file to ERCOT with no errors**

ERCOT Response File - From ERCOT to REP

HDR|DRDataCollectionERCOTResponse|200608300001|123456789

SUM|4|0|

ERCOT Validation File - From ERCOT to REP

HDR|DRDataCollectionERCOTValidation|200608300001|123456789

SUM|4|0|

**Example 2 – REP file to ERCOT with format error and a duplicate row**

File 1 - From REP to ERCOT

HDR|DRDataCollection|200608300001|123456789

DET|1|123456789|1001001001001|PR|Y|0701|

DET|2|123456789|1001001001023|PR|Y|20120715|

DET|3|123456789|1001001001023|PR|Y|20120715|

DET|4|123456789|1001001001045|TOU|Y|20130201|

DET|5|123456789|1001001001045|BI|Y|20130201|

SUM|5|

File 2 - From ERCOT to REP

HDR|DRDataCollectionERCOTResponse|200608300001|123456789

ER2|1|1001001001001|DET|1|StartDate|InvalidValue

SUM|5|4|1|

File 3 - From ERCOT to REP

HDR|DRDataCollectionERCOTValidation|200608300001|123456789

ER3|1|1001001001001|DET|3|Duplicate-Row|Duplicate-Row

SUM|5|4|1|

**Example 3 – REP file to ERCOT with data validation errors**

File 1 - From REP to ERCOT

HDR|DRDataCollection|200608300001|123456789

DET|1|123456789|1001001001234|PR|Y|20120715|

DET|2|123456789|1001001005678|PR|Y|20120715|

DET|3|123456789|1001001004321|TOU|Y|20130201|

DET|4|123456789|1001001008765|BI|Y|20130201|

SUM|4|

File 2 - From ERCOT to REP

HDR|DRDataCollectionERCOTResponse|200608300001|123456789

SUM|4|0|

File 3 - From ERCOT to REP

HDR|DRDataCollectionERCOTValidation|200608300001|123456789

ER3|2|1001001004321|DET|3|ESIID|Not-ROR

SUM|5|4|1|

**APPENDIX A – Category Definitions**

**4-Coincident Peak (4CP) Advise-Control** – The Retail Electric Provider (REP) or Non-Opt-In Entity (NOIE) advises Customers to curtail or directly controls Customer Load on expected 4-Coincident Peak (4CP) days. In the case of NOIEs, a rate incentive may also be provided to the Customer to reduce load; in such cases the Customer should be reported only in this category, and not reported in the 4CP Incentive category.

**4-Coincident Peak (4CP) Incentive** – Applicable only to NOIEs. Rate incentives provided to Customers to encourage or cause them to reduce Load during actual or potential 4CP intervals during summer months (June through September). Reducing Load during such intervals lowers transmission charges. Customer determines when to curtail Load without advice or control from a NOIE.

**Conservation Voltage Reduction (CVR)** – Applicable only to NOIEs. The NOIE Transmission and/or Distribution Service Provider (TDSP) reduces voltage at selected substations to reduce Load when conservation is needed.

**Critical Peak Pricing (CPP)** – Customer prices that rise for limited duration periods of time identified by the REP/NOIE. These periods usually correlate to high prices occurring in the Day-Ahead or anticipated to occur in the Real-Time wholesale market. Critical peak events usually occur a limited number of times per year and typically are communicated a day in advance.

**Free Days and/or Time Periods (FDH)** – Customer is not charged for consumption on specified days of week, holidays, and/or time periods of the day. For example: free nights and weekends. Alternatively, Customer is allowed to designate days during a billing period for which consumption is not charged.

**Indexed Day-Ahead (IDA)** – May or may not include fixed pricing for a defined volume of usage, but does include pricing for some or all usage, indexed to the Day-Ahead Settlement Point Prices for the premise Load Zone. Charges are based on Customer's actual interval data.

**Indexed Other (IOT)** – May or may not include fixed pricing for a defined volume of usage, but does include pricing for some or all usage, indexed to a market price for the premise Load Zone, other than the Real-Time or Day-Ahead Settlement Point Prices e.g., Ancillary Services Pricing. Charges are based on Customer's actual interval data.

**Indexed Real-Time (IRT)** – May or may not include fixed pricing for a defined volume of usage, but does include pricing for some or all usage, indexed to the Real-Time Settlement Point Prices. Charges are based on Customer's actual interval data.

**Other Direct Load Control (OLC)** – Agreements that allow the REP/NOIE or a third party to control the Customer’s Load remotely for economic or grid reliability purposes. This category applies to Direct Load Control (DLC) not associated with the Customer’s energy price, and with different deployment criteria than described elsewhere. (Avoid double counting if DLC data was reported in other categories.) Customer incentive is predefined and does not vary based upon the response.

* OLC Example - OLC (always has DLC) REP identifies a day on which high prices have, or are about to, materialize. The REP sends a signal to the Customer’s web-enabled thermostat to increase its set point by 3 degrees. The REP agrees to pay the Customer $10 / month for each summer month, and the Customer agrees to allow the thermostat to be set higher 10 times during the summer for periods up to 2 hours long. If the Customer overrides the REP thermostat setting during a month, the Customer’s payment is reduced by $3.

**Other Voluntary Demand Response Program (OTH)** – Any retail program not covered in the other categories that includes a Demand response incentive or signal. General conservation messages to all or a majority of a REP’s or a NOIE’s Customers are not applicable.  
  **Peak Rebates (PR)** – A retail offering in which the Customer is eligible for a financial incentive paid for Load reductions taken during periods of time identified by the Load Serving Entity (LSE) and communicated to the Customer during the prior day or the event day or both. LSE has defined a method to identify whether a Customer has responded and to quantify the response amount. Payment (rebate) to Customer is based upon the magnitude of the Customer’s response.

Peak Rebate examples:

* No DLC: The REP sends an email one day prior if high prices are forecasted, and sends a reminder text/tweet the morning of the following day. The REP identifies responding Customers using a recent similar weather day as a baseline to estimate what the Customer’s Load would have been. If the Customer’s actual Load during the predicted intervals was lower than the baseline, the REP agrees to pay the Customer $X / kWh of reduction.
* DLC: REP sends email one day prior if high prices are forecasted, and sends a reminder text/tweet the morning of the following day. When high prices materialize, the REP sends a signal to the Customer’s web-enabled thermostat to increase its set point by 3 degrees. The REP establishes a baseline for the Customer to estimate what the Customer’s Load would have been. If the Customer’s actual Load during the predicted intervals was lower than the baseline, the REP agrees to pay the Customer $X / kWh of reduction.

**Time of Use (TOU)** — Prices that vary across defined blocks of hours, with predefined prices and schedules. (As used here, does not apply to seasonal adjustments.)