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| **Texas SET Change Control Request Form** **Change Control Number: 2021 –834** **Implementation Version: Future**  |

**This Section Is Completed by Submitter of Change Control Request Only:**

|  |  |  |
| --- | --- | --- |
| **Submitter Name:** Kathy Scott | **Submitting Company Name:** CenterPoint Energy  | **Phone Number:** 713-582-8654 |
| **Date of Submission:**06-04-2021 | **Affected TX SET Transaction(s):** 650\_01, 650\_02, 650\_04 and 814\_28 | **Submitter’s E-Mail Address:** Kathy.Scott@CenterPointEnergy.com |
| **Texas SET Issue cross-reference number:** N/A | Protocol Impact (Y/N):N |
| **Detailed Description and Reason for Proposed Change(s):**Due to the increased volumes of Complete Unexecutable, also known as Turndowns, that are currently being sent to the market with Complete Unexecutable code of T018 (Other) and majority of these are associated with unapproved Distributed Generation equipment or Auto Transfer Switch and/or no signed Interconnection Agreement received by TDSP. CNP foresees a need for more specific Complete Unexecutable codes to eliminate the numerous email inquiries or calls directly to CNP from Customer(s) and/or CR(s) looking for more detailed explanations than just the “T018” Other with comments type response. To provide the Market with a transactional solution for future, CNP is recommending these additions to the following TX SET Implementation Guide for inclusion into TX SET v5.0 Release: **650\_01 Service Order Request for the REF~8X (Purpose Code)**: **Add**: New Purpose Code “RC008” – “Reconnect Premise after Correction(s) were completed to Customer’s Distributed Generation Equipment, which may include Auto Transfer Switch (ATS) corrections and/or Customer has signed Interconnection Agreement.” **650\_02 Service Order Response Adds the following in the REF~8X (Purpose Code):** **Add**: New Purpose Code “RC008” – “Reconnected Premise after Correction(s) were completed to Customer’s Distributed Generation Equipment, which may include Auto Transfer Switch (ATS) corrections and/or Customer has signed Interconnection Agreement.” **650\_02 Service Order Response Adds the following in the REF~G7 (Complete Unexecutable Reason)** **REF02 – Completed Unexecutable**:**Add**: New Code “J010” – “Auto Transfer Switch (ATS) Not Approved – (Emergency Back-Up Generator(s) (with open transition) that have not received a Design Approval for the installation.)” **Add**: New Code “J011” – “Distributed Generation (DG) Auto Transfer Switch (ATS) Disconnect Not Approved – (For Inverter(s), Synchronous Generator(s) or Induction Generator(s) that parallel with the Utility Grid (that are closed transition) and have not received Design Approval for the installation.)” **650\_04 Planned or Unplanned Outage Notification for the REF~5H (Suspension/Reactivation Code):** **Add**: New Code “DG001” – “Disconnected Premise due to Distributed Generation (DG) Equipment requires Auto Transfer Switch (ATS) and signed Interconnection Agreement. (TDSP requires Automatic Transfer Switch (ATS) Installed and Customer needs to sign TDSP Interconnection Agreement for DG equipment.)” **Add**: New Code “DG002” – “Disconnected Premise due to Auto Transfer Switch (ATS) Not Approved – (Emergency Back-Up Generator(s) (with open transition) that have not received a Design Approval for the installation.)” **Add**: New Code “DG003” – “Disconnected Premise due to Distributed Generation (DG) Auto Transfer Switch (ATS) Disconnect Not Approved – (For Inverter(s), Synchronous Generator(s) or Induction Generator(s) that parallel with the Utility Grid (that are closed transition) and have not received Design Approval for the installation.)” **Add**: New Code “RC008” – “Reconnected Premise after Correction(s) were completed to Distributed Generation Equipment, which may include Auto Transfer Switch corrections and/or Customer signed Interconnection Agreement.” **650\_04 Planned or Unplanned Outage Notification for the DTM~139 Date/Time (Actual Completion or Estimated Restoration Date/Time**: **Add**: “Required when BGN08 = 79 (Reactivate) and REF~5H = RC008 (Reconnected Premise after Correction(s) were completed to Distributed Generation Equipment, which may include Auto Transfer Switch (ATS) corrections and/or Customer signed Interconnection Agreement.” TDSP will provide actual Date/Time when restoration of service to Premise was completed.” **814\_28 Complete Unexecutable or Permit Required Adds the following in the REF~G7 (Complete Unexecutable Reason)** **REF02 – Completed Unexecutable**:**Add**: New Code “J010” – “Auto Transfer Switch (ATS) Not Approved – (Emergency Back-Up Generator(s) (with open transition) that have not received a Design Approval for the installation.)” **Add**: New Code “J011” – “Distributed Generation (DG) Auto Transfer Switch (ATS) Disconnect Not Approved (For Inverter(s), Synchronous Generator(s) or Induction Generator(s) that parallel with the Utility Grid (that are closed transition) and have not received Design Approval for the installation.)”  |
| **NOTE:** Requester must complete above fields and include a redlined example of modifications to each impacted implementation guide. This must be included at the time the request form is submitted.**Please submit this completed form via e-mail to**txsetchangecontrol@ercot.com and RMS Chair***.*** |

**For ERCOT Change Control Manager Use Only:**

|  |  |  |
| --- | --- | --- |
| **Texas SET Recommendation:**Recommend for Approval | **Recommendation for Emergency (Y/N):**N | **Date of TX SET Recommendation:**07/21/2021 |
| **Detailed Description and Reason for Revision:** Recommended for approval for a future Texas SET release. |
| **RMS Decision:**Approved | **Emergency (Y/N):**N | **Date of RMS Decision:**08/03/2021 |
| **Summary of RMS Discussion:** Approved as non-emergency for a future release |

**650\_01 Service Order Request**

**Segment: REF Reference Identification (Purpose Code)**

 **Position:** 030

 **Loop:** HL Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify identifying information

 **Syntax Notes:** **1** At least one of REF02 or REF03 is required.

 **2** If either C04003 or C04004 is present, then the other is required.

 **3** If either C04005 or C04006 is present, then the other is required.

 **Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | HL Parent Loop (Service Order Level Information)Segment contains all of the service orders that are available to request.All service orders must be for known ESI IDs, including service orders for Street Lights and Guard Lights.When requesting action on a specific meter on a multi-metered/un-metered ESI ID you must specify in REF~8X the appropriate purpose for the transaction and provide specific information in the REF~MG for meter service request or REF~ADE for un-metered service request.The following Purpose Codes can only be used when requesting the associatedTransaction Type Code as noted below:Purpose Codes Beginning With:  DC use only when BGN07 = 72 Disconnect FI use only when BGN07 = XZ Facilities Investigation GL use only when BGN07 = AN Lighting SL use only when BGN07 = AN Lighting RC use only when BGN07 = 79 Reconnect ME use only when BGN07 = KH Meter Exchange MT use only when BGN07 = 38 Meter Test MM use only when BGN07 = 13 Meter Maintenance RD use only when BGN07 = RD Read (Out of Cycle) SH use only when BGN07 = SH Switch Hold Indicator TE use only when BGN07 = IN Technical Environmental |
|  |  | Required on all 650\_01 Service Request, if CR does not provide a Purpose Code TDSP will reject the transaction  |
|  |  | REF~8X~DC001 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | 8X |  | Transaction Category or Type |
|  | Purpose Code |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|   | DC001 |  | Disconnect for Non-Pay |
|  | When this purpose code is sent, the Segment YNQ Yes/No Disconnect Premium Location is Required to be sent with a Y(Yes) in the YNQ02 |
|   | DC002 |  | Disconnect for Customer Requested Clearance |
|  | Disconnect for Customer Requested Clearance (DC002) and Reconnect for Customer Requested Clearance (RC002) may be sent to the TDSP at the same time to allow the TDSP to appropriately schedule both Disconnect and Reconnect request. |
|   | DC003 |  | Remove One Specific Meter on a Multi-Meter Premise/ESI-ID. |
|  | This can only be used to Remove One Specific Meter from a Multi-Meter Premise/ESI-ID. Not to be used for Non-Multi-Metered Premises/ESI-ID. This does not close out the Premise/ESI-ID. |
|   | DC004 |  | Disconnect Due to Denial of Access to the Meter |
|  | This code authorizes the TDSP to disconnect service at any location accessible to them, which includes premium disconnect location. |
|   | DC005 |  | Disconnect for Non-Pay for Charges associated to Tampering |
|  | This code authorizes the TDSP to disconnect service at any location accessible to them, which includes premium disconnect location. |
|   | FI001 |  | Relocation of Service/Facilities |
|  | Used when Retail Customer is requesting relocation of Retail Customer and/or TDSP owned equipment for example service pole, drops, metering equipment (meter can, may include breaker box), weatherhead, streetlight/guard light and/or customer owned transformer. |
|   | FI002 |  | Customer Requesting Information Only concerning Relocation of Services/Facilities |
|   | FI003 |  | Plan Review |
|   | FI004 |  | Dead Animal on Facilities |
|   | FI005 |  | Transformer Open |
|   | FI006 |  | Fire Ants in/on TDSP owned equipment |
|   | FI007 |  | Wire |
|   | FI008 |  | Pole |
|   | FI009 |  | Transformer |
|   | FI010 |  | Crossed Meters |
|   | FI011 |  | Possible Meter Damage |
|   | FI012 |  | Customer inquiry or installation of some type of Generation device or equipment at the Premise |
|  | This code is used by the CR to notify the TDSP of Customer's inquiry or installation of some type of Generation (example: wind, solar, micro-turbines, etc.) at the premise. CR will provide in the MTX segment any additional information of the type of generation, Customer and CR contact information (telephone/cell phone numbers, email address, etc.) needed for TDSP to communicate directly with Customer. |
|   | FI013 |  | Electric Vehicle |
|  | Used when Retail Customer and / or Retail Electric Provider is requesting a load analysis of TDSP owned equipment capacity to serve Electric Vehicle that may be present at the customer's premise. |
|   | GL001 |  | Guard Light - Lights Out |
|   | GL002 |  | Guard Light - Dim Light |
|   | GL003 |  | Guard Light - Light Hanging |
|   | GL004 |  | Guard Light - Pole Leaning |
|   | GL005 |  | Guard Light - Light On All Day |
|   | GL006 |  | Guard Light - Light Goes On and Off |
|   | GL007 |  | Guard Light - Install Shield |
|   | GL008 |  | Guard Light - Re-aim |
|   | GL009 |  | Guard Light - Remove a Specific Lamp |
|   | ME001 |  | Exchange with AMR (Automated Meter Read) Meter |
|   | ME002 |  | Exchange with OMR (Off-site Meter Read) Meter |
|   | ME003 |  | Exchange with IDR |
|   | ME004 |  | Exchange with TOU |
|   | ME005 |  | Exchange with Demand Meter |
|   | ME006 |  | Exchange with kVAR Meter |
|   | ME007 |  | Exchange with kWh Meter |
|   | ME008 |  | Exchange with Electrical Pulse Metering |
|   | ME009 |  | Exchange (like for like) |
|   | ME010 |  | Upgrade (Demand Capacity, Scale # of Dials) |
|  | Upgrade is an exchange of a like meter for like meter where there is a need for a change due to increased functionality or customer request. On upgrades, comments will be used for details. |
|   | ME011 |  | Damaged |
|  | A damaged meter purpose code indicates that the customer knows the meter has been damaged. |
|   | ME012 |  | Dead Meter |
|   | ME013 |  | Optional IDR Removal |
|  | ESI ID met threshold requirement for Optional IDR Removal |
|   | ME014 |  | Mandatory IDR Installation |
|  | ESI ID met threshold requirement for Mandatory IDR Installation |
|   | MM001 |  | Install Lock Band |
|   | MM002 |  | Remove Lock Band |
|   | MM003 |  | Meter Based Angle Adapter "elbow" |
|   | MM004 |  | Dual Socket Adapter |
|   | MM005 |  | Verify Meter Data |
|   | MM006 |  | Tampering Suspected |
|   | MM007 |  | Investigate or Verify Premise Type |
|   | MT001 |  | Meter Test |
|   | RC001 |  | Reconnect after Disconnect for Non-Pay |
|   | RC002 |  | Reconnect for Customer Requested Clearance |
|  | Disconnect for Customer Requested Clearance (DC002) and Reconnect for Customer Requested Clearance (RC002) may be sent to the TDSP at the same time to allow the TDSP to appropriately schedule both Disconnect and Reconnect request. |
|   | RC003 |  | Reconnect of Requested Suspension |
|  | Used by CR to Reconnect after Disconnect for Non-Pay, Reconnect for Customer Requested Clearance or for a Reconnect after a Disconnect due to Tampering when the CR did not initiate the 650\_01 Disconnect for Non-Payment or Disconnect for Customer Clearance service request |
|   | RC004 |  | Reconnect after Disconnect for Denial of Access |
|  | Used by the CR to request reconnection after a disconnection for denial of access to the meter. The CR is required to use the MTX to explain what the customer did to address the access issue. |
|   | RC005 |  | Reconnect after Tampering Disconnect |
|  | RC008 |  | Reconnect Premise after Correction(s) were completed to Customer’s Distributed Generation Equipment, which may include Auto Transfer Switch (ATS) corrections and/or Customer has signed Interconnection Agreement. |
|   | RD001 |  | Special Out of Cycle Read |
|   | RD002 |  | Re-Read/Potential Error |
|   | SH001 |  | Add Payment Plan Switch Hold Indicator |
|   | SH002 |  | Remove Payment Plan Switch Hold Indicator |
|   | SH003 |  | Remove Tampering Switch Hold Indicator |
|   | SL001 |  | Street Light - Lights Out |
|   | SL002 |  | Street Light - Dim Light |
|   | SL003 |  | Street Light - Light Hanging |
|   | SL004 |  | Street Light - Pole Leaning |
|   | SL005 |  | Street Light - Light On All Day |
|   | SL006 |  | Street Light - Light Goes On and Off |
|   | SL007 |  | Street Light - Install Shield |
|   | SL008 |  | Street Light - Needs Tag |
|   | SL009 |  | Street Light - Pole Paint |
|   | SL010 |  | Street Light - Remove a Specific Lamp |
|   | TE001 |  | Radio/TV Interference |
|   | TE002 |  | EMF (Electro-Magnetic Field) |
|   | TE003 |  | Investigate Transformer Leaking |
|   | TE004 |  | Audible Interference |
|   | TE005 |  | Power Quality |
|   | TE006 |  | Tree Trimming |
|   | TE007 |  | Right of Way Cut/Brush Clearing |
|   | TE008 |  | Tree Removal or Cut Down Tree(s) |
|   | TE009 |  | Mow Grass in Easement |
|   | TE010 |  | Property Damaged by Tree Crew |
|   | TE011 |  | Customer Complaint concerning Tree Crew work |

**650\_02 Service Order Response**

**Segment: REF Reference Identification (Purpose Code)**

 **Position:** 030

 **Loop:** HL Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify identifying information

 **Syntax Notes:** **1** At least one of REF02 or REF03 is required.

 **2** If either C04003 or C04004 is present, then the other is required.

 **3** If either C04005 or C04006 is present, then the other is required.

 **Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | HL Parent Loop (Service Order Level Information)All service orders must be for known ESI IDs, including service orders for Street Lights and Guard Lights.The following Purpose Codes can only be used when requesting the associatedTransaction Type Code as noted below:Purpose Codes Beginning With:  DC use only when BGN07 = 72 Disconnect FI use only when BGN07 = XZ Facilities Investigation GL use only when BGN07 = AN Lighting SL use only when BGN07 = AN Lighting RC use only when BGN07 = 79 Reconnect ME use only when BGN07 = KH Meter Exchange MT use only when BGN07 = 38 Meter Test MM use only when BGN07 = 13 Meter Maintenance RD use only when BGN07 = RD Read (Out of Cycle) SH use only when BGN07 = SH Switch Hold Indicator TE use only when BGN07 = IN Technical Environmental  |
|  |  | Required on 650\_02 Service Request  |
|  |  | REF~8X~DC001 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | 8X |  | Transaction Category or Type |
|  | Purpose Code |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|   | DC001 |  | Disconnect for Non-Pay |
|   | DC002 |  | Disconnect for Customer Requested Clearance |
|  | Disconnect for Customer Requested Clearance (DC002) and Reconnect for Customer Requested Clearance (RC002) may be sent by the CR at the same time to allow the TDSP to appropriately schedule both Disconnect and Reconnect request. |
|   | DC003 |  | Remove One Specific Meter on a Multi-Meter Premise/ESI-ID. |
|  | This can only be used to Remove One Specific Meter from a Multi-Meter Premise/ESI-ID. Not to be used for Non-Multi-Metered Premises/ESI-ID. This does not close out the Premise/ESI-ID. |
|   | DC004 |  | Disconnect Due to Denial of Access to the Meter |
|  | This code authorizes the TDSP to disconnect service at any location accessible to them, which includes premium disconnect location. |
|   | DC005 |  | Disconnect for Non-Pay for Charges associated to Tampering |
|  | This code authorizes the TDSP to disconnect service at any location accessible to them, which includes premium disconnect location. |
|   | FI001 |  | Relocation of Service/Facilities |
|  | Used when Retail Customer is requesting relocation of Retail Customer and/or TDSP owned equipment for example service pole, drops, metering equipment (meter can, may include breaker box), weatherhead, streetlight/guard light and/or customer owned transformer. |
|   | FI002 |  | Customer Requesting Information Only concerning Relocation of Service/Facilities |
|   | FI003 |  | Plan Review |
|   | FI004 |  | Dead Animal on Facilities |
|   | FI005 |  | Transformer Open |
|   | FI006 |  | Fire Ants in/on TDSP owned equipment |
|   | FI007 |  | Wire |
|   | FI008 |  | Pole |
|   | FI009 |  | Transformer |
|   | FI010 |  | Crossed Meters |
|   | FI011 |  | Possible Meter Damage |
|   | FI012 |  | Customer inquiry or installation of some type of Generation device or equipment at the Premise |
|  | This code is an acknowledgement only of TDSPs receipt of Customer's inquiry or installation of some type of Generation (example: wind, solar, micro-turbine, etc.) device or equipment at the premise. TDSP will use information in MTX segment received from CR to communicate directly with Customer concerning Customer's generating equipment |
|   | FI013 |  | Electric Vehicle |
|  | Used when Retail Customer and / or Retail Electric Provider is requesting a load analysis of TDSP owned equipment capacity to serve Electric Vehicle that may be present at the customer premise |
|   | GL001 |  | Guard Light - Lights Out |
|   | GL002 |  | Guard Light - Dim Light |
|   | GL003 |  | Guard Light - Light Hanging |
|   | GL004 |  | Guard Light - Pole Leaning |
|   | GL005 |  | Guard Light - Light On All Day |
|   | GL006 |  | Guard Light - Light Goes On and Off |
|   | GL007 |  | Guard Light - Install Shield |
|   | GL008 |  | Guard Light - Re-aim |
|   | GL009 |  | Guard Light - Remove a Specific Lamp |
|   | ME001 |  | Exchange with AMR (Automated Meter Read) Meter |
|   | ME002 |  | Exchange with OMR (Off-site Meter Read) Meter |
|   | ME003 |  | Exchange with IDR |
|   | ME004 |  | Exchange with TOU |
|   | ME005 |  | Exchange with Demand Meter |
|   | ME006 |  | Exchange with kVAR Meter |
|   | ME007 |  | Exchange with kWh Meter |
|   | ME008 |  | Exchange with Electrical Pulse Metering |
|   | ME009 |  | Exchange (like for like) |
|   | ME010 |  | Upgrade (Demand Capacity, Scale # of Dials) |
|  | Upgrade is an exchange of a like meter for like meter where there is a need for a change due to increased functionality or customer request. On upgrades, comments will be used for details. |
|   | ME011 |  | Damaged |
|  | A damaged meter purpose code indicates that the customer knows the meter has been damaged. |
|   | ME012 |  | Dead Meter |
|   | ME013 |  | Optional IDR Removal |
|  | ESI ID met threshold requirement for Optional IDR Removal |
|   | ME014 |  | Mandatory IDR Installation |
|  | ESI ID met threshold requirement for Mandatory IDR Installation |
|   | MM001 |  | Install Lock Band |
|   | MM002 |  | Remove Lock Band |
|   | MM003 |  | Meter Based Angle Adapter "elbow" |
|   | MM004 |  | Dual Socket Adapter |
|   | MM005 |  | Verify Meter Data |
|   | MM006 |  | Tampering Suspected |
|   | MM007 |  | Investigate or Verify Premise Type |
|   | MT001 |  | Meter Test |
|   | RC001 |  | Reconnect after Disconnect for Non-Pay |
|   | RC002 |  | Reconnect for Customer Requested Clearance |
|  | Disconnect for Customer Requested Clearance (DC002) and Reconnect for Customer Requested Clearance (RC002) may be sent by the CR at the same time to allow the TDSP to appropriately scheduled both Disconnect and Request. |
|   | RC003 |  | Reconnect of Requested Suspension |
|  | Used by CR to Reconnect after Disconnect for Non-Pay, Reconnect for Customer Requested Clearance or for a Reconnect after a Disconnect due to Tampering when the CR did not initiate the 650\_01 Disconnect for Non-Payment or Disconnect for Customer Clearance service request |
|   | RC004 |  | Reconnect after Disconnect for Denial of Access |
|   | RC005 |  | Reconnect after Disconnect due to Tampering |
|  | RC008 |  | Reconnected Premise after Correction(s) were completed to Customer’s Distributed Generation Equipment, which may include Auto Transfer Switch (ATS) corrections and/or Customer has signed Interconnection Agreement |
|   | RD001 |  | Special Out of Cycle Read |
|   | RD002 |  | Re-Read/Potential Error |
|   | SH001 |  | Add Payment Plan Switch Hold Indicator |
|   | SH002 |  | Remove Payment Plan Switch Hold Indicator |
|   | SH003 |  | Remove Tampering Switch Hold Indicator |
|   | SL001 |  | Street Light - Lights Out |
|   | SL002 |  | Street Light - Dim Light |
|   | SL003 |  | Street Light - Light Hanging |
|   | SL004 |  | Street Light - Pole Leaning |
|   | SL005 |  | Street Light - Light On All Day |
|   | SL006 |  | Street Light - Light Goes On and Off |
|   | SL007 |  | Street Light - Install Shield |
|   | SL008 |  | Street Light - Needs Tag |
|   | SL009 |  | Street Light - Pole Paint |
|   | SL010 |  | Street Light - Remove a Specific Lamp |
|   | TE001 |  | Radio/TV Interference |
|   | TE002 |  | EMF (Electro-Magnetic Field) |
|   | TE003 |  | Investigate Transformer Leaking |
|   | TE004 |  | Audible Interference |
|   | TE005 |  | Power Quality |
|   | TE006 |  | Tree Trimming |
|   | TE007 |  | Right of Way Cut/Brush Clearing |
|   | TE008 |  | Tree Removal or Cut Down Tree(s) |
|   | TE009 |  | Mow Grass in Easement |
|   | TE010 |  | Property Damaged by Tree Crew |
|   | TE011 |  | Customer Complaint concerning Tree Crew work |

**Segment: REF Reference Identification (Complete Unexecutable Reason)**

 **Position:** 030

 **Loop:** HL Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify identifying information

 **Syntax Notes:** **1** At least one of REF02 or REF03 is required.

 **2** If either C04003 or C04004 is present, then the other is required.

 **3** If either C04005 or C04006 is present, then the other is required.

 **Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required when complete unexecutable (BGN08 = 9) otherwise not used. If codes containing "000" are used, an explanation is required in REF03. |
|  |  | REF~G7~A000~OTHER WEATHERHEAD REASONREF~G7~B003~NONE INSTALLED |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | G7 |  | Resubmission Reason Code |
|  | Completed Unexecuted |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|   | A000 |  | ===== WEATHERHEAD (SERVICE OUTLET) ===== |
|   | A001 |  | Need Meter Loop and Outlet Installed |
|   | A002 |  | Need fiber spacer for service entrance conductors |
|   | A003 |  | Need weatherhead on conduit above meter base |
|   | A004 |  | Fiber wire spacer protector broken in weatherhead |
|   | A005 |  | Screws holding head in place broken off or threads stripped |
|   | A006 |  | Exceeds 25' above finished grade |
|   | A007 |  | Damaged Meter Loop |
|   | A008 |  | Needs clamps at Weatherhead |
|   | B000 |  | ===== POINT OF ATTACHMENT ===== |
|   | B001 |  | Too close to window, door or porch, needs to be 3' away |
|   | B002 |  | Point of attachment over 3' above roof without guy or bracing |
|   | B003 |  | None Installed |
|   | B004 |  | Drop attachment. Too far from service outlet, should be within 18" of drop |
|   | B005 |  | Anchorage not sufficient to support drop cable - 300 lb pull of service drops |
|   | B006 |  | Need penta or creosote treated pole, or a 4" x 6" timber for permanent service |
|   | B007 |  | Temporary meter pole needs bracing to withstand 300 lb. pull of service drops |
|   | B008 |  | Meter pole not set deep enough to support drops and withstand 300 lb pull of service drops |
|   | B009 |  | Pole not of proper height over driveway. Need 12' vertical clearance above finished grade, over residential driveways |
|   | B010 |  | Service attachment needs to be higher for driveway, alleys, roads and streets |
|   | B011 |  | Unable to get drop attachment high enough to get clearance from low point of sag in service cable, over sidewalk, porch or platform |
|   | B012 |  | Need bracket on the service mast for attaching service rack |
|   | B013 |  | Requires secondary rack |
|   | B014 |  | Exceeds service drop distance |
|   | B015 |  | No Meter Pole |
|   | B016 |  | Does not have 12" clearance from SWBT, Cable TV, etc. cables |
|   | C000 |  | ===== LINE CONDUIT ===== |
|   | C001 |  | Should not be water pipe fittings |
|   | C002 |  | Water pipe not allowed for service outlet conduit |
|   | C003 |  | Service outlet conduit not sufficiently clamped to building |
|   | C004 |  | Two inch G.I. or I.M.C. or three inch aluminum conduit required for mast head |
|   | C005 |  | Electrical junction boxes not sealable type |
|   | D000 |  | ===== LINE OF CONDUCTORS ===== |
|   | D001 |  | Service entrance conductors not identified |
|   | D002 |  | Line wire of wrong type insulation |
|   | D003 |  | Line wires too short to reach lugs in meter can |
|   | D004 |  | Wires from service outlet too short for TDSP to connect drops |
|   | D005 |  | No line wires in service outlet |
|   | D006 |  | Bare aluminum neutral conductor in meter loop |
|   | E000 |  | ===== METER BASE ===== |
|   | E001 |  | Improperly mounted on pole. Too low or too high. |
|   | E002 |  | Un-used holes in meter base not close up or covered |
|   | E003 |  | No neutral connector in meter base |
|   | E004 |  | Meter base improperly mounted. Upside down. |
|   | E005 |  | Need 125 amp meter base to match customers wire size |
|   | E006 |  | Need 200 amp meter base to match customers wire size |
|   | E007 |  | Customer wired for current transformer installation. Refer to primary meter man. |
|   | E008 |  | Foreign type of meter base, TDSP does not have equipment to fit it |
|   | E009 |  | Gang type meter socket base not completely wired |
|   | E010 |  | No cover on meter base |
|   | E011 |  | Meter base mounted too high above finished grade ground level, should be 5' to 6' |
|   | E012 |  | Residential meter socket, need commercial |
|   | E013 |  | Meter socket base not level |
|   | E014 |  | Ground in meter can |
|   | E015 |  | Meter base needs to be replaced |
|   | E016 |  | Customer not ready |
|   | E017 |  | Faceplate need Tamper Proof lid |
|   | F000 |  | ===== CUSTOMER'S NEUTRAL WIRE ===== |
|   | F001 |  | Must be electronically continuous inside socket base |
|   | F002 |  | Conductors unidentified in service entrance conductors. Must be white, bare or gray. |
|   | F003 |  | All 3 phase wires must be identified |
|   | F004 |  | Uninsulated aluminum conductor |
|   | F005 |  | Bonding conductor for 480 volt, 3 wire service must be a minimum of #6 copper or equivalent and must be insulated |
|   | G000 |  | ===== LOAD CONDUIT ===== |
|   | G001 |  | Customer used water pipe nipple going to switch box. Need water tight conduit. |
|   | G002 |  | No bushing on conduit from meter base. Weather proof entrance fitting. |
|   | H000 |  | ===== CUSTOMER'S LOAD CONDUCTORS ====== |
|   | H001 |  | Exceeds ampacity of meter socket |
|   | H002 |  | Has the wrong type of insulation |
|   | H003 |  | No wires in load side of meter box |
|   | J000 |  | ===== SWITCH BOX ===== |
|   | J001 |  | Holes in customers switch box not used or closed. Bare wires and connections exposed. |
|   | J002 |  | No ground connector attached to box |
|   | J003 |  | Inside main switch box mounted outside. Must have water tight connections between meter base and switch box |
|   | J004 |  | No cover on breaker box. Lighted connections exposed to public. |
|   | J005 |  | Load wires still energized from backfeed. |
|   | J006 |  | Neutral connection must be electrically continuous and not fused |
|   | J007 |  | Main switch inside premises are unable to relieve load from loop |
|   | J008 |  | Need main breaker if over 6 breakers |
|  | J010 |  | Auto Transfer Switch (ATS) Not Approved  |
|  |  |  | Emergency Back-Up Generator(s) (with open transition) that have not received a Design Approval for the installation. |
|  | J011 |  | Distributed Generation (DG) Auto Transfer Switch (ATS) Disconnect Not Approved  |
|  |  |  | For Inverter(s), Synchronous Generator(s) or Induction Generator(s) that parallel with the Utility Grid (that are closed transition) and have not received Design Approval for the installation. |
|   | K000 |  | ===== GROUNDING ELECTRODE CONDUCTORS ===== |
|   | K001 |  | Grounding electrode conductor not sized in accordance with table 250-94 of NEC |
|   | K002 |  | Where used outside, aluminum or copper clad aluminum conductors shall not be installed within 18" of earth. |
|   | K003 |  | Grounding electrode conductor not securely fastened to the premises below the meter can |
|   | K004 |  | No grounding electrode conductor installed |
|   | K005 |  | Grounding electrode conductor not attached to ground rod with approved clamp |
|   | K006 |  | Has aluminum grounding electrode conductor in direct contact with a masonry or earth |
|   | K007 |  | Grounding electrode conductor must go from switch box to ground rod |
|   | L000 |  | ===== GROUND CONDUIT OR ARMORED CABLE ===== |
|   | L001 |  | Not attached to switch box with water tight connector |
|   | L002 |  | Not bonded to ground rod |
|   | L003 |  | Not attached to switch box |
|   | L004 |  | Not secure to building or pole |
|   | M000 |  | ===== GROUND CLAMP ===== |
|   | M001 |  | Unapproved ground clamp |
|   | M002 |  | No ground clamp |
|   | N000 |  | ===== GROUND ROD ===== |
|   | N001 |  | Must be at least 3/4" galvanized pipe |
|   | N002 |  | Steel rod must be 5/8" minimum diameter |
|   | N003 |  | Rod or pipe must be 8' deep |
|   | N004 |  | No Ground Rod |
|   | P000 |  | ===== PERMITS ===== |
|   | P001 |  | No permit |
|   | P002 |  | Needs city inspection |
|   | Q000 |  | ===== CONSTRUCTION ===== |
|   | Q001 |  | TDSP construction required |
|   | Q002 |  | Customer needs to meet electrician |
|   | Q003 |  | Need house or apartment numbers permanently identified |
|   | Q004 |  | Corrections not made from previous turndown |
|   | Q005 |  | Drops would trespass other's property |
|   | Q006 |  | Unable to determine meter base location |
|   | Q007 |  | Customer needs to bore (driveway, sidewalk, etc....) |
|   | Q008 |  | Service path obstructed (building materials, dirt, fence, etc....) |
|   | Q009 |  | No equipment access (need 5' to 10' wide path) |
|   | Q010 |  | Needs grade work |
|   | Q011 |  | Customer owned utilities not located (water, sewer, gas, etc...) |
|   | Q012 |  | Customer installed conduit insufficient, does not meet TDSP specifications |
|   | R000 |  | ===== UNDERGROUND SERVICE DROPS OWNED BY CUSTOMER ===== |
|   | R001 |  | Service drop not installed |
|   | R002 |  | URD drops too short |
|   | R003 |  | URD ditch not covered |
|   | R004 |  | URD drops not run to the proper point (small notch "V" of the transformer pad) |
|   | R005 |  | Wrong type of URD meter can |
|   | R006 |  | Unapproved wire for underground |
|   | R007 |  | URD service conductors not deep enough |
|   | R008 |  | Drops need to be dug within 12" of transformer on pad. Must be clear to open transformer. |
|   | R009 |  | Underground drops cut in two |
|   | R010 |  | T-Saw pole not 4 feet from front of transformer on pad. Must be clear to open transformer. |
|   | R011 |  | T-Saw pole not 3 feet from rear of transformer |
|   | R012 |  | P.V.C. or conduit elbow not deep enough |
|   | R013 |  | No P.V.C. or conduit elbow |
|   | R014 |  | No line conduit installed |
|   | R015 |  | Meter pole set in easement |
|   | S000 |  | ===== CUT-INS/CUT-OUTS ===== |
|   | S001 |  | Inside trouble on customer side |
|   | S002 |  | Weatherhead pulled from house or broken |
|   | S003 |  | Cannot cut-out at pole, MD, Weatherhead, or remove meter and drops |
|   | T000 |  | ===== MISCELLANEOUS ===== |
|   | T001 |  | Business Closed/Customer not home |
|   | T002 |  | Meter inside, building locked |
|   | T003 |  | Bad Dog |
|   | T004 |  | High fence, locked gate |
|   | T005 |  | Electrician needs to meet with TDSP meter man |
|   | T006 |  | Customer needs to trim trees |
|   | T007 |  | No breakers |
|   | T008 |  | Customer's facilities under secondary and primary |
|   | T009 |  | Meter blocked |
|   | T010 |  | Meter in wall |
|   | T011 |  | Voided per customer |
|  | Cannot be used for Disconnect Non-Pay |
|   | T012 |  | Re-schedule per customer |
|  | Cannot be used for Disconnect Non-Pay |
|   | T013 |  | Meter Damaged |
|   | T014 |  | No Meter |
|   | T015 |  | Muddy Road |
|   | T016 |  | High Water |
|   | T017 |  | Customer Requested Clearance - Unable to do work on date requested |
|   | T018 |  | Other |
|  | Requires explanation in REF03 |
|   | T019 |  | Tampering |
|  | Tampering |
|   | T020 |  | Received service order cancel prior to working service order original. |
|  | Code should be used to respond to the service order original. |
|   | T021 |  | Competitive Retailer in Default |
|   | T022 |  | Force Majeure Event |
|   | T025 |  | Competing Transaction Scheduled for the Same Date |
|   | U000 |  | ===== UNSAFE CONDITIONS ===== |
|   | U001 |  | Exposed wires |
|   | U002 |  | Jumpers in breaker box |
|   | U003 |  | Insects |
|   | U004 |  | Excessive debris |
|   | U005 |  | Irate Customer |
|   | U006 |  | Backfeed on load side jaws |
|   | V000 |  | ===== DISCONNECTS FOR NON-PAY ===== |
|   | V001 |  | Weather Advisory or Moratorium |
|   | V002 |  | Life Support/Critical Care Customer |
|   | V003 |  | Disconnect Non-Pay: Unable to disconnect standard |
|   | V004 |  | Disconnect Non-Pay: Work estimate required, call TDSP |
|   | V005 |  | Received reconnect for non-pay or reconnect after tampering disconnect prior to working the disconnect for non-pay or disconnect due to tampering service order request. |
|  | Code should be used to respond to both the: 1. Disconnect for non-pay and the reconnect  for non-pay original service order requests or 2. Disconnect due to tampering and reconnect  after tampering disconnect original service  order requests. |
|   | V006 |  | Critical Load Premise/Location |
| **Dep** | **REF03** | **352** | **Description** | **X** |  | **AN 1/80** |
|  | A free-form description to clarify the related data elements and their content |
|  | Used to further describe the status reason code sent in REF02. Required when REF02 = "T018" or when the code contains "000". Otherwise, optional. |

**650\_04 Planned or Unplanned Outage Notification**

**Segment: REF Reference Identification (Suspension/Reactivation Code)**

 **Position:** 030

 **Loop:** HL Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify identifying information

 **Syntax Notes:** **1** At least one of REF02 or REF03 is required.

 **2** If either C04003 or C04004 is present, then the other is required.

 **3** If either C04005 or C04006 is present, then the other is required.

 **Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | HL Parent Loop (Suspension/Reactivation of Delivery Services)All Suspensions/Reactivations of Delivery Service must be for known ESI IDs.Note: REF~5H is used for informational purposes only. CR should only reference the BGN08 to determine if an 814\_24 Move Out transaction should be sent. |
|  |  | Required  |
|  |  | REF~5H~DC001 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | 5H |  | Incident |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|   | CR001 |  | Customer Requested |
|  | Used to indicate work that is necessary to perform at the customer's request. |
|  | Example: Retail customer request temporary clearance directly to the TDSP. |
|   | CR002 |  | Customer Requested Permanent Disconnect |
|  | For MOU/EC TDSP use only: Used to indicate that customer has requested a disconnect/final bill from the MOU/EC TDSP. MOU/EC TDSP has permanently disconnected this ESI ID for specified customer and CR must submit an 814\_24 move-out request for the ESI ID. |
|  | Example: Retail customer requests final bill directly from the MOU/EC TDSP. |
|   | DC001 |  | Dangerous Conditions Exist on Customer's Electrical Installation |
|  | Service has been suspended to mitigate a dangerous condition that exists on a customer's electrical installation. |
|  | Example: Meter loop is pulled away from retail customer's structure and/or retail customer's inability to provide point of attachment for adequate overhead line clearance. |
|  | DG001 |  | Disconnected Premise due to Distributed Generation (DG) Equipment requires Auto Transfer Switch (ATS) and signed Interconnection Agreement.  |
|  |  |  | TDSP requires Automatic Transfer Switch (ATS) Installed and Customer needs to sign TDSP Interconnection Agreement for DG equipment. |
|  | DG002 |  | Disconnected Premise due to Auto Transfer Switch (ATS) Not Approved |
|  |  |  | Emergency Back-Up Generator(s) (with open transition) that have not received a Design Approval for the installation. |
|  | DG003 |  | Disconnected Premise due to Distributed Generation (DG) Auto Transfer Switch (ATS) Disconnect Not Approved |
|  |  |  | For Inverter(s), Synchronous Generator(s) or Induction Generator(s) that parallel with the Utility Grid (that are closed transition) and have not received Design Approval for the installation.  |
|   | DP001 |  | Disconnect Non-Payment |
|  | For MOU/EC TDSP use only: Used to indicate that disconnection for non-payment is necessary. |
|  | Example: MOU/EC TDSP is notifying current CR that customer is being disconnected for non-payment.NOTE: In order to avoid ongoing liability following a Disconnect for Non-Payment, a CR must submit an 814\_24 Move-Out transaction to terminate service no earlier than five (5) days after receipt of a 650\_04 transaction indicating successful completion of the Disconnect for Non-Payment (DP001) request. |
|   | EM001 |  | Emergency Threatens System |
|  | Service has been suspended to protect the integrity of the electrical network. |
|  | Examples: This may include; switching, load shedding, or other emergency construction necessary to maintain long-term network stability, network reliability, or delivery service. The Independent System Operator can issue orders to perform work of this nature. Replacing equipment due to damage or potential failure. |
|   | FA001 |  | Facilities have been removed |
|  | Facilities have been removed from ESI ID |
|  | Examples: Customer instructed the TDSP remove the temporary meter from a location once construction has been completed. TDSP found facilities had been physically removed when performing scheduled meter reading. |
|   | GA001 |  | Customer's Failure to Grant Access to Premises |
|  | Service has been suspended due to lack of access to the customer's premise. |
|  | Examples: TDSP equipment located on retail customer facilities needs maintenance or repair to improve delivery service reliability of multiple retail customers. TDSP needs to perform delivery system maintenance, such as tree trimming, to improve the delivery service reliability to all retail customers served. |
|   | IN001 |  | Inspection, Test, Repair or Change |
|  | Used to indicate all ordinary Distribution work. Construction work including modifications, maintenance, or additions to the electrical network fall into this category. |
|  | Examples: Tree trimming. Changing out equipment such as transformers, poles, underground conductors etc... |
|   | LA001 |  | Authorized by Legal Authorities |
|  | Service has been suspended at the direction provided by an applicable legal authority (County, City, Fire Department, Police, FBI etc...). |
|  | Examples: Fire Call, non-compliance with city inspections, or non-compliance with certification requirements of county or city. |
|   | RC001 |  | Reconnect after Disconnect for Non-Pay |
|  | For MOU/EC TDSP use only: Used to indicate that reconnect has been made after disconnect for non-payment was issued. |
|  | Example: MOU/EC TDSP is notifying current CR that customer is being reconnected after disconnect for non-payment. |
|   | RC004 |  | Reconnect after Disconnect for Denial of Access |
|  | The TDSP resolved the Denial of Access issue with the customer and has re-energized the premise |
|  | RC008 |  | Reconnected Premise after Correction(s) were completed to Distributed Generation Equipment, which may include Auto Transfer Switch corrections and/or Customer signed Interconnection Agreement. |
|   | RS001 |  | Restoration of Service to Others |
|  | Service has been suspended while restoring delivery service to other retail customers. |
|  | Examples: Interruption of delivery service to other retail customers is necessary to restore service to a specific retail customer. Repair of secondary that is shared by multiple retail customers. |
|   | TM001 |  | Bypassing or Tampering with Company Equipment |
|  | Service has been suspended due to the detection of tampering or bypassing company equipment or metering. |
|  | Example: The retail customer bypasses TDSP metering. |
|   | UU001 |  | Unauthorized Use |
|  | Service has been suspended due to unauthorized reconnection of a retail customer. |
|  | Example: Retail customer removes the sleeves from their meter after a TDSP initiated disconnect has been performed (Note: The retail customer is still associated with a CR). |
|   | VT001 |  | Violation of Tariff or Other Written Agreement  |
|  | Service has been suspended due to the violation of a written agreement. |
|  | Examples: Interfering with delivery service of others. Non-standard equipment that is out of compliance with TDSP tariff or other written agreement. |

**Segment: DTM Date/Time Reference (Actual Completion or Estimated Restoration Date/Time)**

 **Position:** 050

 **Loop:** HL Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify pertinent dates and times

 **Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

 **2** If DTM04 is present, then DTM03 is required.

 **3** If either DTM05 or DTM06 is present, then the other is required.

 **Semantic Notes:**

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | HL Parent Loop (Suspension of Delivery Services) |
|  |  | Required when BGN08 = S2 (Suspended) if TDSP can estimate the restoration Date/Time.Required for MOU/EC ESI ID when reconnected after disconnect for non-payment where BGN08 = 79 (Reactivate) and REF~5H = RC001(Reconnect after Disconnect for Non-Pay)Required when BGN08 = 79 (Reactivate) and REF~5H = RC008 (Reconnected Premise after Correction(s) were completed to Distributed Generation Equipment may include Auto Transfer Switch corrections and/or Customer signed Interconnection Agreement. TDSP will provide actual Date/Time when restoration of service to Premise was completed. Not used when BGN08 = C (Cancelled)Not used when BGN08 = R8 (Terminate) |
|  |  | DTM~139~20010601~1645 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** |  | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|   | 139 |  | Actual Completion or Estimated Restoration |
| **Must Use** | **DTM02** | **373** | **Date** | **X** |  | **DT 8/8** |
|  | Date expressed as CCYYMMDD |
| **Must Use** | **DTM03** | **337** | **Time** | **X** |  | **TM 4/8** |
|  | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) |
|  | Time expressed in 24-hour clock time as follows: HHMMCentral Prevailing Time |

**814\_28 Complete Unexecutable or Permit Required**

**Segment: REF Reference Identification (Complete Unexecutable Reason)**

 **Position:** 030

 **Loop:** LIN Optional

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify identifying information

 **Syntax Notes:** **1** At least one of REF02 or REF03 is required.

 **2** If either C04003 or C04004 is present, then the other is required.

 **3** If either C04005 or C04006 is present, then the other is required.

 **Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required when ASI01 = 9 (Completed Unexecutable), otherwise not used.If codes containing "T018" or "000" are used, an explanation is required in REF03. Otherwise, the REF03 is optional. |
|  |  | REF~G7~A000~OTHER WEATHERHEAD REASONREF~G7~B003~NONE INSTALLEDREF~G7~B003 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | G7 |  | Resubmission Reason Code |
|  | Completed Unexecutable |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|   | A000 |  | ===== WEATHERHEAD (SERVICE OUTLET) ===== |
|   | A001 |  | Need Meter Loop and Outlet Installed |
|   | A002 |  | Need fiber spacer for service entrance conductors |
|   | A003 |  | Need weatherhead on conduit above meter base |
|   | A004 |  | Fiber wire spacer protector broken in weatherhead |
|   | A005 |  | Screws holding head in place broken off or threads stripped |
|   | A006 |  | Exceeds 25' above finished grade |
|   | A007 |  | Damaged Meter Loop |
|   | A008 |  | Needs clamps at Weatherhead |
|   | B000 |  | ===== POINT OF ATTACHMENT ===== |
|   | B001 |  | Too close to window, door or porch, needs to be 3' away |
|   | B002 |  | Point of attachment over 3' above roof without guy or bracing |
|   | B003 |  | None Installed |
|   | B004 |  | Drop attachment. Too far from service outlet, should be within 18" of drop |
|   | B005 |  | Anchorage not sufficient to support drop cable - 300 lb pull of service drops |
|   | B006 |  | Need penta or creosote treated pole, or a 4" x 6" timber for permanent service |
|   | B007 |  | Temporary meter pole needs bracing to withstand 300 lb. pull of service drops |
|   | B008 |  | Meter pole not set deep enough to support drops and withstand 300 lb pull of service drops |
|   | B009 |  | Pole not of proper height over driveway. Need 12' vertical clearance above finished grade, over residential driveways |
|   | B010 |  | Service attachment needs to be higher for driveway, alleys, roads and streets |
|   | B011 |  | Unable to get drop attachment high enough to get clearance from low point of sag in service cable, over sidewalk, porch or platform |
|   | B012 |  | Need bracket on the service mast for attaching service rack |
|   | B013 |  | Requires secondary rack |
|   | B014 |  | Exceeds service drop distance |
|   | B015 |  | No Meter Pole |
|   | B016 |  | Does not have 12" clearance from SWBT, Cable TV, etc. cables |
|   | C000 |  | ===== LINE CONDUIT ===== |
|   | C001 |  | Should not be water pipe fittings |
|   | C002 |  | Water pipe not allowed for service outlet conduit |
|   | C003 |  | Service outlet conduit not sufficiently clamped to building |
|   | C004 |  | Two inch G.I. or I.M.C. or three inch aluminum conduit required for mast head |
|   | C005 |  | Electrical junction boxes not sealable type |
|   | D000 |  | ===== LINE OF CONDUCTORS ===== |
|   | D001 |  | Service entrance conductors not identified |
|   | D002 |  | Line wire of wrong type insulation |
|   | D003 |  | Line wires too short to reach lugs in meter can |
|   | D004 |  | Wires from service outlet too short for TDSP to connect drops |
|   | D005 |  | No line wires in service outlet |
|   | D006 |  | Bare aluminum neutral conductor in meter loop |
|   | E000 |  | ===== METER BASE ===== |
|   | E001 |  | Improperly mounted on pole. Too low or too high. |
|   | E002 |  | Un-used holes in meter base not close up or covered |
|   | E003 |  | No neutral connector in meter base |
|   | E004 |  | Meter base improperly mounted. Upside down. |
|   | E005 |  | Need 125 amp meter base to match customers wire size |
|   | E006 |  | Need 200 amp meter base to match customers wire size |
|   | E007 |  | Customer wired for current transformer installation. Refer to primary meter man. |
|   | E008 |  | Foreign type of meter base, TDSP does not have equipment to fit it |
|   | E009 |  | Gang type meter socket base not completely wired |
|   | E010 |  | No cover on meter base |
|   | E011 |  | Meter base mounted too high above finished grade ground level, should be 5' to 6' |
|   | E012 |  | Residential meter socket, need commercial |
|   | E013 |  | Meter socket base not level |
|   | E014 |  | Ground in meter can |
|   | E015 |  | Meter base needs to be replaced |
|   | E016 |  | Customer not ready |
|   | E017 |  | Faceplate need Tamper Proof lid |
|   | F000 |  | ===== CUSTOMER'S NEUTRAL WIRE ===== |
|   | F001 |  | Must be electronically continuous inside socket base |
|   | F002 |  | Conductors unidentified in service entrance conductors. Must be white, bare or gray. |
|   | F003 |  | All 3 phase wires must be identified |
|   | F004 |  | Uninsulated aluminum conductor |
|   | F005 |  | Bonding conductor for 480 volt, 3 wire service must be a minimum of #6 copper or equivalent and must be insulated |
|   | G000 |  | ===== LOAD CONDUIT ===== |
|   | G001 |  | Customer used water pipe nipple going to switch box. Need water tight conduit. |
|   | G002 |  | No bushing on conduit from meter base. Weather proof entrance fitting. |
|   | H000 |  | ===== CUSTOMER'S LOAD CONDUCTORS ====== |
|   | H001 |  | Exceeds ampacity of meter socket |
|   | H002 |  | Has the wrong type of insulation |
|   | H003 |  | No wires in load side of meter box |
|   | J000 |  | ===== SWITCH BOX ===== |
|   | J001 |  | Holes in customers switch box not used or closed. Bare wires and connections exposed. |
|   | J002 |  | No ground connector attached to box |
|   | J003 |  | Inside main switch box mounted outside. Must have water tight connections between meter base and switch box |
|   | J004 |  | No cover on breaker box. Lighted connections exposed to public. |
|   | J005 |  | Load wires still energized from backfeed. |
|   | J006 |  | Neutral connection must be electrically continuous and not fused |
|   | J007 |  | Main switch inside premises are unable to relieve load from loop |
|   | J008 |  | Need main breaker if over 6 breakers |
|  | J010 |  | Auto Transfer Switch (ATS) Not Approved  |
|  |  |  | Emergency Back-Up Generator(s) (with open transition) that have not received a Design Approval for the installation. |
|  | J011 |  | Distributed Generation (DG) Auto Transfer Switch (ATS) Disconnect Not Approved  |
|  |  |  | For Inverter(s), Synchronous Generator(s) or Induction Generator(s) that parallel with the Utility Grid (that are closed transition) and have not received Design Approval for the installation. |
|   | K000 |  | ===== GROUNDING ELECTRODE CONDUCTORS ===== |
|   | K001 |  | Grounding electrode conductor not sized in accordance with table 250-94 of NEC |
|   | K002 |  | Where used outside, aluminum or copper clad aluminum conductors shall not be installed within 18" of earth. |
|   | K003 |  | Grounding electrode conductor not securely fastened to the premises below the meter can |
|   | K004 |  | No grounding electrode conductor installed |
|   | K005 |  | Grounding electrode conductor not attached to ground rod with approved clamp |
|   | K006 |  | Has aluminum grounding electrode conductor in direct contact with a masonry or earth |
|   | K007 |  | Grounding electrode conductor must go from switch box to ground rod |
|   | L000 |  | ===== GROUND CONDUIT OR ARMORED CABLE ===== |
|   | L001 |  | Not attached to switch box with water tight connector |
|   | L002 |  | Not bonded to ground rod |
|   | L003 |  | Not attached to switch box |
|   | L004 |  | Not secure to building or pole |
|   | M000 |  | ===== GROUND CLAMP ===== |
|   | M001 |  | Unapproved ground clamp |
|   | M002 |  | No ground clamp |
|   | N000 |  | ===== GROUND ROD ===== |
|   | N001 |  | Must be at least 3/4" galvanized pipe |
|   | N002 |  | Steel rod must be 5/8" minimum diameter |
|   | N003 |  | Rod or pipe must be 8' deep |
|   | N004 |  | No Ground Rod |
|   | P000 |  | ===== PERMITS ===== |
|   | P001 |  | No permit |
|   | P002 |  | Needs city inspection |
|   | Q000 |  | ===== CONSTRUCTION ===== |
|   | Q001 |  | TDSP construction required |
|   | Q002 |  | Customer needs to meet electrician |
|   | Q003 |  | Need house or apartment numbers permanently identified |
|   | Q004 |  | Corrections not made from previous turndown |
|   | Q005 |  | Drops would trespass other's property |
|   | Q006 |  | Unable to determine meter base location |
|   | Q007 |  | Customer needs to bore (ex. driveway, sidewalk, etc....) |
|   | Q008 |  | Service path obstructed (ex. building materials, dirt, fence, etc....) |
|   | Q009 |  | No equipment access (ex. need 5' to 10' wide path) |
|   | Q010 |  | Needs grade work |
|   | Q011 |  | Customer owned utilities not located (ex. water, sewer, gas, etc...) |
|   | Q012 |  | Customer installed conduit insufficient, does not meet TDSP specifications |
|   | R000 |  | ===== UNDERGROUND SERVICE DROPS OWNED BY CUSTOMER ===== |
|   | R001 |  | Service drop not installed |
|   | R002 |  | URD drops too short |
|   | R003 |  | URD ditch not covered |
|   | R004 |  | URD drops not run to the proper point (small notch "V" of the transformer pad) |
|   | R005 |  | Wrong type of URD meter can |
|   | R006 |  | Unapproved wire for underground |
|   | R007 |  | URD service conductors not deep enough |
|   | R008 |  | Drops need to be dug within 12" of transformer on pad. Must be clear to open transformer. |
|   | R009 |  | Underground drops cut in two |
|   | R010 |  | T-Saw pole not 4 feet from front of transformer on pad. Must be clear to open transformer. |
|   | R011 |  | T-Saw pole not 3 feet from rear of transformer |
|   | R012 |  | P.V.C. or conduit elbow not deep enough |
|   | R013 |  | No P.V.C. or conduit elbow |
|   | R014 |  | No line conduit installed |
|   | R015 |  | Meter pole set in easement |
|   | S000 |  | ===== CUT-INS/CUT-OUTS ===== |
|   | S001 |  | Inside trouble on customer side |
|   | S002 |  | Weatherhead pulled from house or broken |
|   | S003 |  | Cannot cut-out at pole, MD, Weatherhead, or remove meter and drops |
|   | T000 |  | ===== MISCELLANEOUS ===== |
|   | T001 |  | Business Closed/Customer not home |
|   | T002 |  | Meter inside, building locked |
|   | T003 |  | Bad Dog |
|   | T004 |  | High fence, locked gate |
|   | T005 |  | Electrician needs to meet with TDSP meter man |
|   | T006 |  | Customer needs to trim trees |
|   | T007 |  | No breakers |
|   | T008 |  | Customer's facilities under secondary and primary |
|   | T009 |  | Meter blocked |
|   | T010 |  | Meter in wall |
|   | T011 |  | Voided per customer |
|  | Cannot be used for Disconnect Non-Pay |
|   | T012 |  | Re-schedule per customer |
|  | Cannot be used for Disconnect Non-Pay |
|   | T013 |  | Meter Damaged |
|   | T014 |  | No Meter |
|   | T015 |  | Muddy Road |
|   | T016 |  | High Water |
|   | T017 |  | Customer Requested Clearance - Unable to do work on date requested |
|   | T018 |  | Other |
|  | Requires explanation in REF03 |
|   | T019 |  | Tampering |
|   | T021 |  | Competitive Retailer in Default |
|   | T022 |  | Force Majeure Event |
|   | T023 |  | Move-Out transaction (814\_24) was treated as a force off since (814\_03) Move-In transaction received by the TDSP was scheduled for the same date. |
|   | T024 |  | Switch or Move-In Request cannot be completed due to Switch Hold recently applied to this ESI ID |
|   | T025 |  | Competing Transaction Scheduled for Same Date |
|   | U000 |  | ===== UNSAFE CONDITIONS ===== |
|   | U001 |  | Exposed wires |
|   | U002 |  | Jumpers in breaker box |
|   | U003 |  | Insects |
|   | U004 |  | Excessive debris |
|   | U005 |  | Irate Customer |
|   | U006 |  | Backfeed on load side jaws |
| **Dep** | **REF03** | **352** | **Description** | **X** |  | **AN 1/80** |
|  | A free-form description to clarify the related data elements and their content |
|  | Used to further describe the status reason code sent in REF02. Required when REF02 = "T018" or when the code contains "000". Otherwise, optional. |