

SECTION 2: RESOURCE REGISTRATION GLOSSARY - Effective January 1, 2014							
RARF Tab	Wind	Conventional Generation (Gen)	Combined Cycle (CC)	Load Resources	Notes	Field Name	Definition / Detailed Description
GENERAL_SITE_ESIID_Information - General and Site Information							
General and Site	X	X	X		List	This submittal is for	Select from drop down: New Site, Revision, Addition of unit(s), or Deletion of unit(s).
General and Site	X	X	X		Date	Date Form Completed	Enter date in the format MM/DD/YYYY.
General and Site	X	X	X		Text	Resource Entity Submitting Form	Enter the name of the Resource Entity. This must be the same entity name that filed as a Resource Entity on the Standard Form Agreement. The Protocols require that a Load Resource must also complete and submit an Application.
General and Site	X	X	X		Number	Resource Entity DUNS #	Enter the Market Participant unique identifier as registered with ERCOT for the Resource Entity (DUNS number plus 4 as assigned by ERCOT).
General and Site	X	X	X		Text	Resource Site Name	Resource site or main Facility name (i.e. Cedar Bayou Plant). Determined jointly with ERCOT.
General and Site	X	X	X		Text	Resource Site Code	Code for Resource site (i.e. Cedar Bayou Plant it is CBY). Determined jointly with ERCOT.
General and Site	X	X	X			Street Address	Physical Street Address of the plant site
General and Site	X	X	X			City	City of the site
General and Site	X	X	X			State	State of the site
General and Site	X	X	X			Zipcode	Zipcode of the site
General and Site	X	X	X			County	County of the site
General and Site	X	X	X		Date	Site In-Service Date	Date is the date when site was (or is planned to be) commissioned.
General and Site	X	X	X		Date	Site Stop Service Date	Date is the date when site will be decommissioned. Blank if not known.
General and Site	X	X	X		List	Congestion Management Zone for 2003:	This information can be found in the ERCOT Data Dictionary on the Planning and Operations Information website. For newer units, please contact ERCOT.
General and Site	X	X	X		Y/N	Resource owned by NOIE? (Y/N)	Indicate NOIE Ownership of Resource
General and Site	X	X	X		Y/N	Is Resource behind a NOIE Settlement Meter Point? (Y,N)	For Resources that are connected to the grid behind NOIE Settlement Meter Points
General and Site	X	X	X			Number of EPS Primary meters	Enter the total number of primary ERCOT-Polled Settlement (EPS) Meters associated with this site.
General and Site	X	X	X		Y/N	Is Resource claiming status as a Non-Modeled Generator as defined in ERCOT Protocol Section 2.	Refer to Protocol Section 2, Definitions and Acronyms, for the definition of a Non-Modeled Generator. Required if Resource is claiming Non-Modeled Generator status.
General and Site	X	X	X		Y/N	Is Resource >10 MW?	Indicate if the Resource is greater than 10 MW. Required if Resource is claiming Non-Modeled Generator status.
General and Site	X	X	X		Text	Primary Contact	Enter the Primary Contact person who can address ERCOT questions regarding Resource Registration submittal. Enter the contact's name, title, phone number, email address, and fax number.
General and Site	X	X	X		Text	Title:	Enter the Title of the Primary Contact
General and Site	X	X	X			Phone Number:	Enter the Phone Number for the Primary Contact
General and Site	X	X	X			E-mail Address:	Enter the E-mail Address for the Primary Contact
General and Site	X	X	X			Fax Number:	Enter the Fax Number for the Primary Contact
General and Site	X	X	X		Text	Secondary Contact	Enter the Secondary Contact person who can address ERCOT questions regarding Resource Registration submittal. Enter the contact's name, title, phone number, email address, and fax number.
General and Site	X	X	X		Text	Title:	Enter the Title of the Secondary Contact
General and Site	X	X	X			Phone Number:	Enter the Phone Number for the Secondary Contact
General and Site	X	X	X			E-mail Address:	Enter the E-mail Address for the Secondary Contact
General and Site	X	X	X			Fax Number:	Enter the Fax Number for the Secondary Contact
GENERAL_SITE_ESI ID_Information - Gen Load Split - ESI ID							
Gen Load Split - ESIID	X	X	X		Y/N	Gen. Load Splitting (Y or N)	Indicate if unit(s) represent Split Generation Resources behind the EPS Meter or if Load is split across multiple TDSPs.
Gen Load Split - ESIID	X	X	X		Y/N	ERCOT Read (Y or N)	Indicate if the meter is an EPS Meter.

Gen Load Split - ESIID	X	X	X		Number	ESI ID	Enter the ESI ID. Required unless behind a NOIE Settlement Point.
Gen Load Split - ESIID	X	X	X		List	TDSP Providing Service To Resource	From the drop-down menu, select the name of the TDSP that provides transmission or distribution service to the site for the ESI ID. Required unless behind a NOIE Settlement Point.
Gen Load Split - ESIID	X	X	X		Automatic	TDSP DUNS Number	The TDSP DUNS number is automatically populated based on TDSP selection.
Gen Load Split - ESIID	X	X	X		%	Fixed Load Splitting %	Enter the fixed percentage of Load associated with each ESI ID.
Gen Load Split - ESIID	X	X	X		List	Load Serving Entity	Enter the Load Serving Entity (LSE) associated with that ESI ID.
Gen Load Split - ESIID	X	X	X		Automatic	Load Serving Entity DUNS #	The LSE DUNS number is automatically populated based on LSE selection.
GENERAL SITE ESIID Information - Private Network - Site							
Private Network - Site	X	X	X		Y/N	Private Network?	Indicate if the site is a Private Use Network as defined in the Protocol Section 2.
Private Network - Site	X	X	X		MW	Average Amount of Self-Serve private Load	If the site is a Private Use Network, then enter the amount of the total site generation MW output used for self serve and not available for the grid.
Private Network - Site	X	X	X		MVAr	Average Amount of Self-Serve private reactive Load	If the site is a Private Use Network, then enter the amount of the total site generation MVAr output used for self serve and not available for the grid.
Private Network - Site	X	X	X		MW	Expected Typical Private Network Net Interchange	If the site is a Private Use Network, then enter the MW Net Interchange with ERCOT grid (typically Net=Gen-Load).
Private Network - Site	X	X	X		MVAr	Expected Typical Private Network Net Reactive Interchange	If the site is a Private Use Network, then enter the MVAr Net Interchange with ERCOT grid (typically Net=Gen-Load).
Private Network - Site	X	X	X		MW	Private Network Gross Unit Capability	If the site is a Private Use Network, then enter the MW Gross Generation Capability for the Site
Private Network - Site	X	X	X		MVAr	Private Network Gross Unit Reactive Capability	If the site is a Private Use Network, then enter the MVAr Gross Generation Capability for the Site
Private Network - Site	X	X	X		%	Large Motor, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Private Network - Site	X	X	X		%	Small Motor, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Private Network - Site	X	X	X		%	Resistive (Heating) Load, percent of total MW Load	Enter % of total MW Load per Load type.
Private Network - Site	X	X	X		%	Discharge Lighting, percent of total MW Load	Enter % of total MW Load per Load type.
Private Network - Site	X	X	X		%	Other, percent of total MW Load	Enter % of total MW Load per Load type.
Private Network - Site	X	X	X		%	Large Motor, percent of total MVAr Load	Enter % of total MVAr Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Private Network - Site	X	X	X		%	Small Motor, percent of total MVAr Load	Enter % of total MVAr Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Private Network - Site	X	X	X		%	Discharge Lighting, percent of total MVAr Load	Enter % of total MVAr Load per Load type.
Private Network - Site	X	X	X		%	Other, percent of total MVAr Load	Enter % of total MVAr Load per Load type.
Unit Information							
Unit Information	X	X	X		Text	Resource Site Code	Enter the Site Code established in the General and Site Information tab of the GENERAL_SITE_ESIID_Information workbook.
Unit Information	X	X	X		Text	Unit Name	Enter Unit Code for the generator unit (e.g.. Cedar Bayou Plant Gen 1 is "CBYG1").
Unit Information	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Unit Information	X	X	X		Y/N	Non Modeled Generator	Refer to ERCOT Protocol Section 2 for the definition of a Non-Modeled Generator.
Unit Information	X	X	X		Number	PUC Registration Number	Enter the PUCT registration number.
Unit Information	X	X	X		Number	ERCOT Interconnection Project Number	Enter the ERCOT INR number. Required for new or upgraded units.
Unit Information	X	X	X		Number	NERC Number	Enter NERC NCR number.
Unit Information	X	X	X		Y/N	Qualifying Facility	Refer to ERCOT Protocol Section 2 for the definition of Qualifying Facility.
Unit Information	X	X	X		Date	Transmission Only MRD	Planned Point of Interconnection (POI) substation energization (backfeed) date for new Resources used to plan Resource integration schedule.
Unit Information	X	X	X		Date	Standard Generation Interconnect Agreement (SGIA) Signature Date	Enter the date the Resource signed SGIA. For NOIEs, use MOU date.
Unit Information	X	X	X		Date	Unit Start Date (Model Ready Date)	Planned initial energy production (synchronization) date for a new unit used to plan the resource integration schedule.
Unit Information	X	X	X		Date	Unit Commercial Date	Enter the unit's planned commercial operations date. (used in accordance with paragraph (b) of Protocol Section 4.4.9.4.1 , Mitigated Offer Cap. After commercial operations is declared, this field should be updated with the actual commercial operations date.
Unit Information	X	X	X		Date	Unit Retirement Date	Enter the date of expected or actual retirement. Leave blank if unknown.

Unit Information	X	X	X		All Caps	SubStation Code/SubStation Mnemonic (POI)	Enter the interconnecting transmission station code. If you need assistance in determining the corresponding ERCOT Substation Code\Substation Mnemonic, please work with your TDSP or ERCOT.
Unit Information	X	X	X		kV	Voltage Level (POI)	Enter the nominal voltage level at the Point of Interconnection. If you need assistance in determining the corresponding Voltage Level, please work with your TDSP or ERCOT.
Unit Information	X	X	X		Number	PTI Bus Number (POI)	Enter the PTI Bus Number at the Point of Interconnection in the planning model. If you need assistance in determining the corresponding PTI Bus Number, please work with your TDSP or ERCOT.
Unit Information	X	X	X		List	Primary Fuel Type	AB -- Agriculture Byproducts (bagasse, straw, energy crops) BFG -- Blast-Furnace Gas BIT -- Bituminous Coal BL -- Black liquor DFO -- Distillate Fuel Oil (diesel, No1 fuel oil, No 2 fuel oil, No 4 fuel oil) GEO -- Geothermal JF -- Jet Fuel KER -- Kerosene LFG -- Landfill Gas LIG -- Lignite MSW -- Municipal Solid Waste (refuse) NA -- Not Applicable NG -- Natural Gas NUC -- Nuclear (uranium, plutonium, thorium) OBG -- Other - Biomass Gas (methane, digester gas) OBL -- Other - Biomass Liquids (ethanol, fish oil, waste alcohol, other gases) OBS -- Other - Biomass Solids (animal manure/waster, medical waste, paper pellets, paper derived fuel) OG -- Other - Gas (butane, coal processes, coke-oven coal, methanol, refinery gas) OO -- Other - Oil (butane, crude, liquid byproducts, oil waste, propane) OTH -- Other (batteries, chemicals, hydrogen pitch sulfur, misc technologies) PC -- Petroleum Coke PG -- Propane RFO -- Residual Fuel Oil (No 5 and No 6 fuel oil) STM -- Steam from other units SLW -- Sludge Waste SUB -- Sub-bituminous Coal SUN -- Solar (photovoltaic, thermal) TDF -- Tires T -- Tidal WAT -- Water (conventional, pumped storage) WDL -- Wood/Wood Waste - Liquids (red liquor, sludge wood spent sulfite liquor, other liquors) WDS -- Wood/Wood Waste - Solids (peat, railroad ties, utility poles, wood chips, other solids) WH -- Waste heat WND -- Wind WOC -- Waste / Other Coal
Unit Information	X	X	X		List	Secondary Fuel Type	Same data entry elements as primary fuel type, but for secondary or start-up fuel.
Unit Information	X	X	X		List	Fuel Transportation Type	CV -- Conveyor PL -- Pipeline RR -- Railroad TK -- Truck NA -- Not Applicable
Unit Information	X	X	X		List	Resource Category	Nuclear Hydro Coal and Lignite Combined Cycle ≤ 90 MW* Combined Cycle > 90 MW* Gas Steam - Supercritical Boiler Gas Steam - Reheat Boiler Gas Steam - Non-reheat or Boiler without air-preheater Simple Cycle ≤ 90 MW Simple Cycle > 90 MW Diesel Renewable
Unit Information	X	X	X		Y/N	Renewable	Indicate if the unit is a Renewable Energy Credit (REC) generator, as certified with the PUCT.
Unit Information	X	X	X		Y/N	Renewable/Offset	REC offset generators that produce generation to cover offsets they have been approved to provide, as certified with the PUCT.

Unit Information	X	X	X		List	Physical Unit Type	CA -- Combined cycle steam turbine part (includes steam part of integrated coal gasification combined cycle) CC -- Combined cycle total unit (use only for plants/generators that are in planning stage, for which specific generator details cannot be provided) CE -- Compressed air energy storage CS -- Combined cycle single shaft (combustion turbine and steam turbine share a single generator) CT -- Combined cycle combustion/gas turbine part (includes comb. turbine part of integrated coal gasification combined cycle) FC -- Fuel Cell GT -- Simple-cycle Combustion (gas) turbine (includes jet engine design) HY -- Hydraulic turbine (includes turbines associated with delivery of water by pipeline) IC -- Internal combustion (diesel, piston) engine NA -- Unknown at this time (planned units only) OT -- Other PS -- Hydraulic Turbine - Reversible (pumped storage) PV -- Photovoltaic ST -- Steam Turbine including nuclear, geothermal and solar. Does not include combined cycle. WT -- Wind Turbine
Unit Information	X	X	X		MVA	Name Plate Rating	Name Plate MVA Rating of this unit at its rated power factor.
Unit Information	X	X	X		MW	Real Power Rating	Maximum rated MW at rated power factor.
Unit Information	X	X	X		MVAr	Reactive Power Rating	Maximum MVAr at rated power factor
Unit Information	X	X	X		MW	Turbine Rating	Maximum gross designed MW of the turbine
Unit Information	X	X	X		kV	Unit Generating Voltage	Terminal voltage of generating unit
Unit Information	X	X	X		%	Governor Droop Settings	The percent change in nominal frequency that will cause generator output to change from no Load to full Load.
Unit Information	X	X	X		Hz	Governor Dead-band	The Hz deviation of system frequency (+/-) that produces no turbine Governor response, and therefore, no frequency (speed) regulation.
Unit Information	X	X	X		degree F	Design Max Ambient Temperature	This is the plant design maximum (high) air temperature.
Unit Information	X	X	X		degree F	Design Min Ambient Temperature	This is the plant design minimum (low) air temperature.
Unit Information	X				degree F	Maximum Operating Temperature	The highest ambient temperature at which individual turbines may cease operating due to procedural requirements or equipment limitations. (Most limiting condition)
Unit Information	X				degree F	Minimum Operating Temperature	The lowest ambient temperature at which individual turbines may cease operating due to procedural requirements or equipment limitations. (Most limiting condition)
Unit Information	X				degree F	Min Ambient Temperature Trip	Temperature at which the plant will trip due to low ambient temperatures
Unit Information	X				degree F	Min Ambient Temperature Trip Reset	Temperature at which the plant will reset after a low temperature trip
Unit Information	X				m/s	High Wind Speed Cut-Out	Sustained wind speed in meters per second at which the turbine will cease operations due to high wind speed
					minutes	High Wind Speed Cut-Out time	The amount of time associated with the high wind speed cut-out value. (The time used to determine if it is a sustained value, instead of a gust value)
Unit Information	X				m/s	High Wind Speed Cut-Out Reset	The wind speed at which a turbine will begin operating following a cut-out event
					minutes	High Wind Speed Cut-Out Reset Time	The amount of time associated with the high wind speed cut-out reset value. (The amount of time at or below the reset value following a high wind speed cut-out event before the turbine will begin operating)
Unit Information	X				Y/N	Cold weather package	Does the WGR have a Cold Weather package
Unit Information	X				Y/N	Hot weather package	Does the WGR have a Hot Weather package
Unit Information	X	X	X		decimal degrees	Latitude of Center of Plant	The geographic coordinate that specifies the north-south position of the plant provided in decimal degrees
Unit Information	X	X	X		decimal degrees	Longitude of Center of Plant	The geographic coordinate that specifies the east-west position of the plant provided in decimal degrees
Unit Information - Train							
Unit Info - TRAIN			X		List	Train Name	Train name assigned by ERCOT
Unit Info - TRAIN			X		Automatic	Train Code	A sitecode and train code concatenation
Unit Info - TRAIN			X		Date	Train Unit Commercial Date	Train Unit Commercial Operations Date. It is the date on which Generator declares that the construction of the plant has been substantially completed, trial operation of the plant has been completed, and commercial operations has been declared. Format is MM/DD/YYYY
Unit Info - TRAIN			X		Date	Train Unit Retirement Date	Train Unit Retirement Date in MM/DD/YYYY format. Leave blank if unknown.

Unit Info - TRAIN			X		Y/N	Is train augmented with Duct Burner(s)?	Indicate whether Duct Burner(s) augmentation is available for use
Unit Info - TRAIN			X		Y/N	Is train augmented with Evap Cooler(s)?	Indicate whether Evap Cooler(s) augmentation is available for use
Unit Info - TRAIN			X		Y/N	Is train augmented with Chiller(s)?	Indicate whether Chiller(s) augmentation is available for use
Unit Info - TRAIN			X		Y/N	Other augmentation?	Indicate whether other augmentation is available for use
Unit Info - Wind - Additional Wind Unit Information							
Unit Info - Wind	X				meters	Average Height above ground of Turbine Hub	Used for Wind Generation Forecasting
Unit Info - Wind	X				decimal degrees	Latitude of Meteorological Tower	Used for Wind Generation Forecasting
Unit Info - Wind	X				decimal degrees	Longitude of Meteorological Tower	Used for Wind Generation Forecasting
Unit Info - Wind	X				meters	Height of Meteorological Instrumentation - Wind speed	Used for Wind Generation Forecasting
Unit Info - Wind	X				meters	Height of Meteorological Instrumentation - Wind direction	Used for Wind Generation Forecasting
Unit Info - Wind	X				meters	Height of Meteorological Instrumentation - Barometric pressure	Used for Wind Generation Forecasting
Unit Info - Wind	X				meters	Height of Meteorological Instrumentation - Temperature	Used for Wind Generation Forecasting
Unit Info - Turbine Details							
Turbine Details	X				Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Turbine Details	X				Number	WGR Group	WGR Group # 1,2,3... only if grouping two or more WGRs. Leave blank if not grouping.
Turbine Details	X				Automatic	Site_Group	Automatic field
Turbine Details	X				Number	Total Number of Turbines	Count total of wind turbines
Turbine Details	X				All Caps	Turbine Manufacturer and Model	From name-plate or manufacturer data sheet
Turbine Details	X				MW	MW Rating for this model of Turbine	From name-plate or manufacturer data sheet
Turbine Details	X				Number	Number of Turbine Manufacturer/Model	Count of wind turbines in this group
Turbine Details	X				Number	Turbine Type	Indicate the electrical type of Turbine (eg. Type 1, 2, 3, 4)
Turbine Details	X				MVA	What is the MVA base that the following data is based on?	The MVA Base for stated impedances.
Turbine Details	X				KV	What is the kV base that the following data is based on?	The KV Base for stated impedances.
Turbine Details	X				p.u.	Subtransient Reactance X'',(Instantaneous Fault Current Period) (unsaturated)	Enter the instantaneous subtransient reactance (unsaturated) for the fault.
Turbine Details	X				p.u.	Transient Reactance, X' (First 2-3 cycles of the Fault) (unsaturated)	Enter the transient reactance (unsaturated) for the first 2-3 cycles of the fault.
Turbine Details	X				R in p.u.	Negative Sequence Z (unsaturated)	Enter the negative sequence resistance (unsaturated) for system models.
Turbine Details	X				X in p.u.	Negative Sequence Z (unsaturated)	Enter the negative sequence reactance (unsaturated) for system models.
Turbine Details	X				R in p.u.	Zero Sequence Z (unsaturated)	Enter the zero sequence resistance (unsaturated) for system models.
Turbine Details	X				X in p.u.	Zero Sequence Z (unsaturated)	Enter the zero sequence reactance (unsaturated) for system models.
Turbine Details	X				p.u.	Subtransient Reactance X'',(Instantaneous Fault Current Period) (saturated)	Enter the instantaneous subtransient reactance (saturated) for the fault.
Turbine Details	X				p.u.	Transient Reactance, X' (First 2-3 cycles of the Fault) (saturated)	Enter the transient reactance (saturated) for the first 2-3 cycles of the fault.
Turbine Details	X				R in p.u.	Positive Sequence Resistance (saturated)	Enter the positive sequence resistance (saturated) for system models.
Turbine Details	X				X in p.u.	Synchronous Reactance X (After 4 cycles of the fault) (saturated)	Enter the synchronous reactance (saturated) after 4 cycles of the fault.
Turbine Details	X				R in p.u.	Negative Sequence Z (saturated)	Enter the negative sequence resistance (saturated) for system models.
Turbine Details	X				X in p.u.	Negative Sequence Z (saturated)	Enter the negative sequence reactance (saturated) for system models.
Turbine Details	X				R in p.u.	Zero Sequence Z (saturated)	Enter the zero sequence resistance (saturated) for system models.
Turbine Details	X				X in p.u.	Zero Sequence Z (saturated)	Enter the zero sequence reactance (saturated) for system models.
Turbine Details	X				p.u.	Grounding Resistance For An Impedance Grounded Generator In p.u. (100 MVA Base)	Zero sequence resistance value of the generator grounding impedance is required. The value must be specified on a 100 MVA base.
Turbine Details	X				p.u.	Grounding Reactance For An Impedance Grounded Generator In p.u. (100 MVA Base)	Zero sequence reactance value of the generator grounding impedance is required. The value must be specified on a 100 MVA base.
Turbine Details	X				p.u.	Instantaneous Controlled Fault Current Magnitude (Multiple of full Load current) for Turbine Types 3 & 4	Wind turbine instantaneous fault current magnitude for Type 4 and Type 3, if the controls operate (no crowbar operation) as a percent of full Load current, expressed in per unit.
Turbine Details	X				p.u.	Controlled Fault Current Magnitude At 2 to 3 cycles after fault (Multiple of full Load current) for Turbine Types 3 & 4	Wind turbine fault current magnitude at 2 – 3 cycles after a fault for Type 4 and Type 3, if the controls operate (no crowbar operation) as a percent of full Load current, expressed in per unit.
Turbine Details	X				p.u.	Controlled Fault Current Magnitude At 4 plus cycles after fault (Multiple of full Load current) for Turbine Types 3 & 4	Wind turbine fault current magnitude at 4+ cycles after a fault for Type 4 and Type 3, if the controls operate (no crowbar operation) as a percent of full Load current, expressed in per unit.
Turbine Details	X				kV	High Side Voltage Level (nominal)	Enter the voltage level (in kV) on the high-voltage side of the wind generator pad-mount transformer.
Turbine Details	X				kV	Low Side Voltage Level (nominal)	Enter the voltage level (in kV) on the low-voltage side of the wind generator pad-mount transformer.

Turbine Details	X				List	High Side Voltage Connection	Identify the type of connection used for the windings (Wye/Delta and Neutral Grounding) on the high-voltage side of the transformer.
Turbine Details	X				List	Low Side Voltage Connection	Identify the type of connection used for the windings (Wye/Delta and Neutral Grounding) on the low-voltage side of the transformer.
Turbine Details	X				p.u.	Impedance Z	Enter the impedance of the transformer.
Turbine Details	X					X/R Ratio	Enter the ratio of the reactance to the resistance of the transformer.
Turbine Details	X				p.u.	Zero Sequence Z	Enter the zero sequence impedance of the transformer.
Turbine Details	X					Zero Sequence X/R Ratio	Enter the ratio of the zero sequence reactance to the zero sequence resistance of the transformer.
Turbine Details	X				MVA	Base MVA for Transformer Data	Enter the base MVA upon which the per unit transformer data is provided.
Ownership							
Ownership	X	X			List	Unit Name	Code for name of generator unit, as provided on the Unit Information Train tab.
Ownership			X		List	Train Name	Code for name of Train, as provided on the Unit Information Train tab.
Ownership	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Ownership	X	X			Y/N	Joint Ownership	Does unit have multiple owners? (does not apply to CC Units, as they must have a single owner for each Train.)
Ownership	X	X	X		Text	Resource Entity Name	Enter the name of the Resource Entity who owns all or a portion of this unit.
Ownership	X	X	X		Number	Resource Duns Number	Enter the name of the Resource Entity DUNS # who owns all or a portion of this unit (or Train).
Ownership	X	X	X		%	Fixed Ownership	Percentage of ownership for this unit that this Resource Entity owns in decimal format. (Does not apply to CC Units, as they must have a single owner for each Train.)
Ownership	X	X	X		Y/N	Master Owner	Is this Resource Entity the Master Owner of the unit? (does not apply to CC Units, as they must have a single owner for each Train.)
Ownership	X	X	X		Date	Ownership Start Date	Date this Resource Entity ownership was started
Ownership	X	X	X		Date	Ownership Stop Date	Date this Resource Entity ownership was stopped
Parameters							
Parameters	X	X	X		List	Unit Name	Code for name of generator unit, as provided on the Unit Information tab.
Parameters	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Parameters	X	X	X		MW	High Reasonability Limit	An "Out-of-Bounds" value chosen by RE and used by ERCOT to alarm/reject data exceeding this value. Per Protocol 3.7.1, Resource Parameter Criteria, also used to validate reactive capability curves
Parameters	X	X	X		MW	Low Reasonability Limit	An "Out-of-Bounds" value chosen by Resource Entity and used by ERCOT to alarm/reject data below this value. Per Protocol Section 3.7.1, also used to validate reactive capability curves.
Parameters	X	X	X		MW/min	High Reasonability Ramp Rate Limit	An "Out-of-Bounds" value chosen by Resource Entity and used by ERCOT to alarm/reject data exceeding this value, SCED is also bounded by this value.
Parameters	X	X	X		MW/min	Low Reasonability Ramp Rate Limit	An "Out-of-Bounds" value chosen by Resource Entity and used by ERCOT to alarm/reject data below this value, SCED is also bounded by this value.
Parameters	X	X	X		MW	Seasonal Net Max Sustainable Rating - Spring	Spring months are March, April, and May. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Sustainable Rating - Spring	Spring months are March, April, and May. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Max Emergency Rating - Spring	Spring months are March, April, and May. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Emergency Rating - Spring	Spring months are March, April, and May. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Max Sustainable Rating - Summer	Summer months are June, July, and August. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Sustainable Rating - Summer	Summer months are June, July, and August. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Max Emergency Rating - Summer	Summer months are June, July, and August. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Emergency Rating - Summer	Summer months are June, July, and August. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Max Sustainable Rating - Fall	Fall months are September, October, and November. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Sustainable Rating - Fall	Fall months are September, October, and November. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.

Parameters	X	X	X		MW	Seasonal Net Max Emergency Rating - Fall	Fall months are September, October, and November. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Emergency Rating - Fall	Fall months are September, October, and November. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Max Sustainable Rating - Winter	Winter months are December, January, and February. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Sustainable Rating - Winter	Winter months are December, January, and February. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Max Emergency Rating - Winter	Winter months are December, January, and February. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	Seasonal Net Min Emergency Rating - Winter	Winter months are December, January, and February. These are not the HSL/LSL or HEL/LEL values that are submitted in the COP.
Parameters	X	X	X		MW	0°F - 120°F	Unit Do rating MW values for different temperatures. Each temperature value is a separate field.
Operational Parameters							
Operational Parameters	X	X	X		List	Unit Name	Code for name of generator unit, as provided on the Unit Information tab.
Operational Parameters	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Operational Parameters	X	X	X		hours	Minimum On Line Time	The minimum number of consecutive hours the Resource must be On-Line before being shut down. For Combined Cycle Generation Resources, this value applies to the configuration, and not the subcomponent (e.g. GT, steamer)
Operational Parameters	X	X	X		hours	Minimum Off Line Time	The minimum number of consecutive hours the Resource must be Off-Line before being restarted.
Operational Parameters	X	X	X		hours	Hot Start Time	The time, in hours, from the ERCOT startup notice to LSL, for a Resource in its hot-temperature state. New nodal value from Protocol Section 3.7.1 Criteria Hot, Cold, Intermediate start times are not additive.
Operational Parameters	X	X	X		hours	Intermediate Start Time	The time interval, in hours, from the ERCOT startup notice to LSL, for a Resource in its intermediate temperature state. New nodal value from Protocol Section 3.7.1. Hot, Cold, Intermediate start times are not additive.
Operational Parameters	X	X	X		hours	Cold Start Time	The time interval, in hours, from the ERCOT startup notice to LSL, for a Resource in its cold-temperature state. New nodal value from Protocol Section 3.7.1. Hot, Cold, Intermediate start times are not additive.
Operational Parameters	X	X	X			Max Weekly Starts	The maximum number of times a Resource can be started in seven consecutive days under normal operating conditions. New nodal value from Protocols Section 3.7. For Combined Cycle Generation Resources, this value applies to the configuration, and not the subcomponent (e.g. GT, steamer)
Operational Parameters	X	X	X		hours	Max On Line Time	The maximum number of consecutive hours a Resource can run before it needs to be shut down. New nodal value from Protocol Section 3.7.1. For Combined Cycle Generation Resources, this value applies to the configuration, and not the subcomponent (e.g. GT, steamer)
Operational Parameters	X	X	X			Max Daily Starts	The maximum number of times a Resource can be started in a 24 hour period under normal operating conditions. New nodal value from Protocol Section 3.7.1. For Combined Cycle Generation Resources, this value applies to the configuration, and not the subcomponent (e.g. GT, steamer)
Operational Parameters	X	X	X		MWh	Max Weekly Energy	The maximum amount of energy, in MWh, a Resource can produce in seven consecutive days.
Operational Parameters	X	X	X		hours	Hot-to-Intermediate Time	The time, in hours, after shutdown that a hot-temperature-state Resource takes to cool down to intermediate-temperature state.
Operational Parameters	X	X	X		hours	Intermediate-to-Cold Time	The time, in hours, after shutdown that an intermediate-temperature-state Resource takes to cool down to cold-temperature state.
Operational Parameters - NRRC (Normal Ramp Rate Curve)							
Operational Parameters - NRRC	X	X	X		List	Unit Name	Code for name of generator unit, as provided on the Unit Information tab.
Operational Parameters - NRRC	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Operational Parameters - NRRC	X	X	X		List	MW Number	Select MW1- MW10 from list
Operational Parameters - NRRC	X	X	X		Automatic	NRRC Code	Concatenated code of the Unit Code, MW Number and the Ramp Rate type
Operational Parameters - NRRC	X	X	X		MW	NRRC MW	Normal Ramp Rate curve as defined by the Protocols spans from Low Sustainable Limit (LSL) to High Sustainable Limit (HSL). As LSL/HSL are subject to change, it is recommended to establish this curve from the Low Reasonability Limit (LRL) to the High Reasonability Limit (HRL)for registration purposes. The curve is reflected in ERCOT systems as steps. The curve is not interpolated between points.

Operational Parameters - NRRC	X	X	X		MW/min	Normal Upward RampRate1	Enter Normal Ramp Rate for each NRRC MW value. This is the rate at which the Resource can increase MW output in MW/minute for the given output level.
Operational Parameters - NRRC	X	X	X		MW/min	Normal Downward RampRate1	Enter Normal Ramp Rate for each NRRC MW value. This is the rate at which the Resource can decrease MW output in MW/minute for the given output level.
Operational Parameters - ERRC (Emergency Ramp Rate Curve)							
Operational Parameters - ERRC	X	X	X		List	Unit Name	Code for name of generator unit, as provided on the Unit Information tab.
Operational Parameters - ERRC	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Operational Parameters - ERRC	X	X	X		List	MW Number	Select MW1- MW10 from list.
Operational Parameters - ERRC	X	X	X		Automatic	ERRC Code	Concatenated code of the Unit Code, MW Number and the Ramp Rate type
Operational Parameters - ERRC	X	X	X		MW	ERRC MW	Eemrgency Ramp Rate curve as defined by the Protocols spans from Low Sustainable Limit LSL to High Sustainable Limit HSL. As LSL/HSL are subject to change, it is recommended to establish this curve from the Low Reasonability Limit LRLto the High Reasonability Limit HRL for registration purposes. The curve is reflected in ERCOT systems as steps. The curve is not interpolated between points.
Operational Parameters - ERRC	X	X	X		MW/min	Upward RampRate1	Enter Emergency Ramp Rate for each ERRC MW value. This is the rate at which the Resource can increase MW output in MW/minute for the given output level.
Operational Parameters - ERRC	X	X	X		MW/min	Downward RampRate1	Enter Emergency Ramp Rate for each ERRC MW value. This is the rate at which the Resource can decrease MW output in MW/minute for the given output level.
CC Configurations							
CC Configurations			X		List	Train Code	Train Code as provided on the Unit Information Train tab.
CC Configurations			X		Automatic	Site Code	Site Code as provided on the General and Site Information tab.
CC Configurations			X		List	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name as provided on the Unit Info tab.
CC Configurations			X		Number	Configuration #	Number of this configuration,. The onfiguration numbers should increase based on increasing capability, not necessarily by increasing number of components.
CC Configurations			X		Automatic	Configuration Code	Concatenated code of the Train Code and the Configuration Number
CC Configurations			X		List	Configuration Type	Register all operationally unique configurations. Additional background to assist with this step can be obtained from the Combined Cycle Whitepaper.
CC Transitions							
CC Configurations			X		List	Site Code	Site Code as provided on the General and Site Information tab.
CC Configurations			X		List	Train Code	A sitecode and train code concatenation
CC Configurations			X		List	Configuration Code From	Additional background to assist with this step can be obtained from the Combined Cycle Whitepaper
CC Configurations			X		List	Configuration Code To	Additional background to assist with this step can be obtained from the Combined Cycle Whitepaper
Private Network - Unit							
Private Network - Unit	X	X	X		List	Unit Name	Unit Code as provided on the Unit Info tab.
Private Network - Unit	X	X	X		Automatic	Site Code	Site Code as provided on the General and Site Information tab.
Private Network - Unit	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Resource name as provided on the General and Site Information tab.
Private Network - Unit	X	X	X		MW	Average Amount of Self-Serve private Load	Amount of the total site generation MW output used for self serve and not available for the grid.
Private Network - Unit	X	X	X		MVAr	Average Amount of Self-Serve private reactive Load	Amount of the total site generation MVAr output used for self serve and not available for the grid.
Private Network - Unit	X	X	X		MW	Expected Typical Private Network Net Interchange	MW Net Interchange with ERCOT grid (typical Net=Gen-Load)
Private Network - Unit	X	X	X		MVAr	Expected Typical Private Network Net Reactive Interchange	MVAr Net Interchange with ERCOT grid (typical Net=Gen-Load)
Private Network - Unit	X	X	X		MW	Private Network Gross Unit Capability	MW Gross Generation Capability for the Site
Private Network - Unit	X	X	X		MVAr	Private Network Gross Unit Reactive Capability	MVAr Gross Generation Capability for the Site
Private Network - Unit	X	X	X		Y/N	If Unit trips, does Load trip?	This is necessary to determine how much Load will appear on the ERCOT grid if the unit trips.
Private Network - Unit	X	X	X		%	If yes, approximate percentage of Load that will trip?	If unit trips what percentage of Load associated with this unit is tripped? Enter % (ex. 70% is entered as 70.0)
Reactive Capability							
Reactive Capability	X	X	X		List	Unit Name	Unit Code as provided on the Unit Info tab.
Reactive Capability	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Reactive Capability	X	X	X		List	Reactive Capability Provided is Gross/Net Values?	Select whether the Reactive data is based on Gross or Net values.
Reactive Capability	X	X	X		List	Reactive Capability Data Provided is from NDCRC Test Data	Indicate (Y/N) if the reactive capability data is from test data
Reactive Capability	X	X	X		Date	Reactive Test Date	Include the Reactive Test Date, if the Reactive Capability Data Provided is from NDCRC test data

Reactive Capability	X	X	X		MW	MW1	Reactive Capability curve - point on curve of MW output for this unit, MW1. This should equal the Resource LRL.
Reactive Capability	X	X	X		MVAr	Lagging MVAr limit associated with MW1 output	Unit's Lagging Reactive Power output capability associated with its MW1 output, in MVAr.
Reactive Capability	X	X	X		MVAr	Leading MVAr limit associated with MW1 output	Unit's Leading Reactive Power output capability associated with its MW1 output, in MVAr; input as negative number
Reactive Capability	X	X	X		MW	MW2	Reactive Capability curve - point on curve of MW output for this unit, MW2
Reactive Capability	X	X	X		MVAr	Lagging MVAr limit associated with MW2 output	Unit's Lagging Reactive Power output capability associated with its MW2 output, in MVAr.
Reactive Capability	X	X	X		MVAr	Leading MVAr limit associated with MW2 output	Unit's Leading Reactive Power output capability associated with its MW2 output, in MVAr; input as negative number
Reactive Capability	X	X	X		MW	MW3	Reactive Capability curve - point on curve of MW output for this unit, MW3
Reactive Capability	X	X	X		MVAr	Lagging MVAr limit associated with MW3 output	Unit's Lagging Reactive Power output capability associated with its MW3 output, in MVAr.
Reactive Capability	X	X	X		MVAr	Leading MVAr limit associated with MW3 output	Unit's Leading Reactive Power output capability associated with its MW3 output, in MVAr; input as negative number
Reactive Capability	X	X	X		MW	MW4	Reactive Capability curve - point on curve of MW output for this unit, MW4. This should equal the Resource High Reasonability Limit.
Reactive Capability	X	X	X		MVAr	Lagging MVAr limit associated with MW4 output	Unit's Lagging Reactive Power output capability associated with its MW4 output, in MVAr.
Reactive Capability	X	X	X		MVAr	Leading MVAr limit associated with MW4 output	Unit's Leading Reactive Power output capability associated with its MW4 output, in MVAr; input as negative number
Reactive Capability		X	X		MW	MW5 - Unity Power Factor	From the Reactive Capability curve - the MW output at Unity power factor (zero MVAr)
Reactive Capability		X	X		PSI	If hydrogen cooled, indicate hydrogen pressure (psi) associated with your Reactive Curve submitted for ERCOT studies	From manufacturer Reactive Capability Curve or data sheet.
Reactive Capability	X	X	X		MVAr	Maximum Leading Operating Capability (MVAr)	Enter the maximum lagging MVAr's that can be produced. Input as negative number
Reactive Capability	X	X	X		MVAr	Maximum Lagging Operating Capability (MVAr)	Enter the maximum leading MVAr's that can be produced. Input as positive number
Reactive Capability	X	X	X		Y/N	Manufacturer's Capability Curve submitted?	Has the most recent curve been submitted to ERCOT? If not, please attach.
Planning							
Planning		X	X		List	Unit Name	Unit Code as provided on the Unit Info tab.
Planning	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Planning		X	X		MVA	What is the MVA base that the following data is based on?	The MVA Base for stated impedances.
Planning		X	X		KV	What is the kV base that the following data is based on?	The KV Base for stated impedances.
Planning		X	X		p.u.	Direct Axis Subtransient reactance, X"di (unsaturated)	Enter the direct axis subtransient reactance (unsaturated) for the fault.
Planning		X	X		p.u.	Direct Axis Transient reactance, X'di (unsaturated)	Enter the direct axis transient reactance (unsaturated) for the first 2-3 cycles of the fault.
Planning		X	X		R in p.u.	Positive Sequence Z (unsaturated)	Enter the positive sequence resistance (unsaturated) for system models.
Planning		X	X		X in p.u.	Positive Sequence Z (unsaturated)	Enter the positive sequence reactance (unsaturated) for system models.
Planning		X	X		R in p.u.	Negative Sequence Z (unsaturated)	Enter the negative sequence resistance (unsaturated) for system models.
Planning		X	X		X in p.u.	Negative Sequence Z (unsaturated)	Enter the negative sequence reactance (unsaturated) for system models.
Planning		X	X		Y/N	Does Zero Sequence Z exist?	Select whether the generator has Zero Sequence Z data. If no, then the zero sequence data fields will not be required.
Planning		X	X		R in p.u.	Zero Sequence Z (unsaturated)	Enter the zero sequence resistance (unsaturated) for system models.
Planning		X	X		X in p.u.	Zero Sequence Z (unsaturated)	Enter the zero sequence reactance (unsaturated) for system models.
Planning		X	X		p.u.	Direct Axis Subtransient reactance, X"di (saturated)	Enter the direct axis subtransient reactance (saturated) for the fault.
Planning		X	X		p.u.	Direct Axis Transient reactance, X"di (saturated)	Enter the direct axis transient reactance (saturated) for the first 2-3 cycles of the fault.
Planning		X	X		R in p.u.	Positive Sequence Z (saturated)	Enter the positive sequence resistance (saturated) for system models.
Planning		X	X		X in p.u.	Positive Sequence Z (saturated)	Enter the positive sequence reactance (saturated) for system models.
Planning		X	X		R in p.u.	Negative Sequence Z (saturated)	Enter the negative sequence resistance (saturated) for system models.
Planning		X	X		X in p.u.	Negative Sequence Z (saturated)	Enter the negative sequence reactance (saturated) for system models.
Planning		X	X		R in p.u.	Zero Sequence Z (saturated)	Enter the zero sequence resistance (saturated) for system models.
Planning		X	X		X in p.u.	Zero Sequence Z (saturated)	Enter the zero sequence reactance (saturated) for system models.
Planning		X	X		p.u.	Zero Sequence Grounding Resistance For An Impedance Grounded Generator in p.u. (100 MVA Base)	Zero Sequence Grounding Resistance value of the Generator Grounding Inpedance is required. The value must be specified on a 100 MVA base.
Planning		X	X		p.u.	Zero Sequence Grounding Reactance For An Impedance Grounded Generator in p.u. (100 MVA Base)	Zero Sequence Grounding Reactance value of the Generator Grounding Inpedance is required. The value must be specified on a 100 MVA base.
Planning	X	X	X		MW	Average Amount of Auxiliary Real Power	Enter average MW for auxiliary Load
Planning	X	X	X		MVAr	Average Amount of Auxiliary Reactive Power	Enter average MVAr for auxiliary Load
Planning	X	X	X			Auxiliary Load Power Factor	Enter power factor for auxiliary Load
Planning	X	X	X		%	Large Motor, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.

Planning	X	X	X		%	Small Motor, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Resistive (Heating) Load, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Discharge Lighting, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Other, percent of total MW Load	Enter % of total MW Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Large Motor, percent of total MVar Load	Enter % of total MVar Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Small Motor, percent of total MVar Load	Enter % of total MVar Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Discharge Lighting, percent of total MVar Load	Enter % of total MVar Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Planning	X	X	X		%	Other, percent of total MVar Load	Enter % of total MVar Load per Load type. The split between large and small motor should be along voltage lines - where motors connected at 2400/4160V and above should be considered large, and below 2400/4160V should be considered small.
Protection							
Protection	X	X	X		List	Unit Name	Unit Code as provided on the Unit Info tab.
Protection	X	X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Protection	X	X	X		cycles	Breaker Interruption Time	Time taken (in cycles) between the breaker receiving the trip signal, and the breaker contacts opening to interrupt the flow of current.
Protection	X	X	X		p.u.	Instantaneous Undervoltage Trip	The per unit value (below nominal) of the undervoltage relay instantaneous set point.
Protection	X	X	X		p.u.	Undervoltage 1	Enter the first level undervoltage relay set point in per unit.
Protection	X	X	X		sec	Time 1	Enter the first level undervoltage time delay set point.
Protection	X	X	X		p.u.	Undervoltage 2	Enter the second level undervoltage relay set point in per unit.
Protection	X	X	X		sec	Time 2	Enter the second level undervoltage time delay set point.
Protection	X	X	X		p.u.	Undervoltage 3	Enter the third level undervoltage relay set point in per unit.
Protection	X	X	X		sec	Time 3	Enter the third level undervoltage time delay set point.
Protection	X	X	X		p.u.	Undervoltage 4	Enter the fourth level undervoltage relay set point in per unit.
Protection	X	X	X		sec	Time 4	Enter the fourth level undervoltage time delay set point.
Protection	X	X	X		p.u.	Instantaneous Overvoltage Trip	The per unit value (above nominal) of the overvoltage relay instantaneous set point.
Protection	X	X	X		p.u.	Overvoltage 1	Enter the first level overvoltage relay set point in per unit.
Protection	X	X	X		sec	Time 1	Enter the first level overvoltage relay time delay set point.
Protection	X	X	X		p.u.	Overvoltage 2	Enter the second level overvoltage relay set point in per unit.
Protection	X	X	X		sec	Time 2	Enter the second level overvoltage relay time delay set point.
Protection	X	X	X		p.u.	Ovrvoltage 3	Enter the third level overvoltage relay set point in per unit.
Protection	X	X	X		sec	Time 3	Enter the third level overvoltage relay time delay set point.
Protection	X	X	X		p.u.	Overvoltage 4	Enter the fourth level overvoltage relay set point in per unit.
Protection	X	X	X		sec	Time 4	Enter the fourth level overvoltage relay time delay set point.
Protection	X	X	X		Hz	Instantaneous Underfrequency Trip	The per unit value (below 60Hz) of the underfrequency relay instantaneous set point.
Protection	X	X	X		Hz	Underfrequency 1	Enter the first level underfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 1	Enter the first level underfrequency relay time delay set point.
Protection	X	X	X		Hz	Underfrequency 2	Enter the second level underfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 2	Enter the second level underfrequency relay time delay set point.
Protection	X	X	X		Hz	Underfrequency 3	Enter the third level underfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 3	Enter the third level underfrequency relay time delay set point.
Protection	X	X	X		Hz	Underfrequency 4	Enter the fourth level underfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 4	Enter the fourth level underfrequency relay time delay set point.
Protection	X	X	X		Hz	Instantaneous Overfrequency Trip	The per unit value (above 60Hz) of the overfrequency relay instantaneous set point.
Protection	X	X	X		Hz	Overfrequency 1	Enter the first level overfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 1	Enter the first level overfrequency relay time delay set point.

Protection	X	X	X		Hz	Overfrequency 2	Enter the second level overfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 2	Enter the second level overfrequency relay time delay set point.
Protection	X	X	X		Hz	Overfrequency 3	Enter the third level overfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 3	Enter the third level overfrequency relay time delay set point.
Protection	X	X	X		Hz	Overfrequency 4	Enter the fourth level overfrequency relay set point in Hz.
Protection	X	X	X		sec	Time 4	Enter the fourth level overfrequency relay time delay set point.
Subsynchronous Information (if requested by ERCOT)							
Subsync		X	X		List	Unit Name	Unit Code as provided on the Unit Info tab.
Subsync		X	X		Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Subsync		X	X		List	Mass Number	Select a unique number for each mass.
Subsync		X	X		Automatic	Mass Code	Concatenated code automatically provided of the Resource Name and Mass Number
Subsync		X	X		Automatic	Name	Identification of the masses- HP, IP, LP1, LP2, EXC, etc.
Subsync		X	X			Mass Inertia	H-value. The inertia constant of each mass, either in MW's, MVA, or lbm.ft²
Subsync		X	X			Inertia units	MW's, MVA, or lbm.ft²
Subsync		X	X			Associated damping	The damping associated with each mass either in p.u. torque/p.u. speed deviation, or lbf.ft.sec/rad
Subsync		X	X			Damping units	p.u. torque/p.u. speed or lbf.ft.sec/rad
Subsync		X	X			Stiffness between Masses	The stiffness (spring constant) between each two mass, either in p.u. torque/rad, or lbf.ft/rad (coupling).
Subsync		X	X			Stiffness units	p.u. torque/rad or lbf.ft/rad
Collector System - WIND							
Collector System - WIND	X				Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Collector System - WIND	X					Cable Type	Enter the type(s) of conductor(s) used in the collector system.
Collector System - WIND	X				kV	Voltage Level kV	Enter the voltage level (in kV) of the collector system. Used when calculating Positive and Zero Sequence resistance and reactance.
Collector System - WIND	X				p.u.	Positive Sequence R/kft (p.u. on 100 MVA base)	Enter in per unit, the positive sequence resistance per kilo-foot of the collector system calculated on a 100 MVA base.
Collector System - WIND	X				p.u.	Positive Sequence X/kft (p.u. on 100 MVA base)	Enter in per unit, the positive sequence reactance per kilo-foot of the collector system calculated on a 100 MVA base.
Collector System - WIND	X				p.u.	Positive Charging Bc/kft (p.u. on 100 MVA base)	Enter in per unit, the positive sequence line charging reactance per kilo-foot of the collector system calculated on a 100 MVA base.
Collector System - WIND	X				p.u.	Zero Sequence R0/kft (p.u. on 100 MVA base)	Enter in per unit, the zero sequence resistance per kilo-foot of the collector system calculated on a 100 MVA base.
Collector System - WIND	X				p.u.	Zero Sequence X0/kft (p.u. on 100 MVA base)	Enter in per unit, the zero sequence reactance per kilo-foot of the collector system calculated on a 100 MVA base.
Collector System - Wind Segment Data							
Collector System - Wind Segment Data	X				Automatic	Resource Name (Unit Code/Mnemonic)	Concatenated mnemonic of Resource Site Code and Unit name (e.g. CBY_CBYG1).
Collector System - Wind Segment Data	X				List	Cable Type	Cable Type as provided on the Collector System - Wind tab
Collector System - Wind Segment Data	X				Integer	From	Enter the bus number for the sending end or "from" bus of the cable segment.
Collector System - Wind Segment Data	X				Integer	To	Enter the bus number for the receiving end or "to" bus of the cable segment.
Collector System - Wind Segment Data	X				Integer	Circuit Number	Enter the circuit number for the cable segment.
Collector System - Wind Segment Data	X				kV	Voltage Level	Enter the voltage level of the cable segment in kV.
Collector System - Wind Segment Data	X				kft	Cable Segment Length	Enter the length of the cable segment in kilo-feet.
Collector System - Wind Segment Data	X				Integer	Number of Turbines On Cable Segment	Enter the number of turbines connected to the cable segment.
General Information - Load Resource							
General Information - Load Resource				X	List	This submittal is for	Select from drop down list of reason for this submittal - New Resource Entity, Revisions, Additions, Deletions
General Information - Load Resource				X	mm/dd/yyyy	Date Form Completed	Enter date in the format MM/DD/YYYY.
General Information - Load Resource				X		Resource Entity Submitting Form	Enter the name of the Resource Entity. This must be the same entity name that filed as a Resource Entity on the Standard Form Agreement. The Protocols require that a Load Acting as a Resource must also complete and submit an Application.
General Information - Load Resource				X	Number	Resource Entity DUNS #	Enter the Market Participant unique identifier as registered with ERCOT for the Resource Entity (DUNS number plus 4 as assigned by ERCOT).
General Information - Load Resource				X	Text	Primary Contact	Enter the Primary Contact person who can address ERCOT questions regarding Resource Registration submittal. Enter the contact's name, title, phone number, email address, and fax number.
General Information - Load Resource				X	Text	Title:	Enter the Title of the Primary Contact
General Information - Load Resource				X		Phone Number:	Enter the Phone Number for the Primary Contact

General Information - Load Resource				X		E-mail Address:	Enter the E-mail Address for the Primary Contact
General Information - Load Resource				X		Fax Number:	Enter the Fax Number for the Primary Contact
General Information - Load Resource				X	Text	Secondary Contact	Enter the Secondary Contact person who can address ERCOT questions regarding Resource Registration submittal. Enter the contact's name, title, phone number, email address, and fax number.
General Information - Load Resource				X	Text	Title:	Enter the Title of the Secondary Contact
General Information - Load Resource				X		Phone Number:	Enter the Phone Number for the Secondary Contact
General Information - Load Resource				X		E-mail Address:	Enter the E-mail Address for the Secondary Contact
General Information - Load Resource				X		Fax Number:	Enter the Fax Number for the Secondary Contact
Load Resource Information							
Load Resource Information				X		Common Name for Load Resource	Enter the common name of the Load that will be acting as a resource. (e.g.. South Gulf Refinery, etc.)
Load Resource Information				X		Dispatch Asset Code (provided by ERCOT)	Enter the Dispatch Asset Code (this code will be provided by ERCOT)
Load Resource Information				X		Physical Street Address for Point of Delivery (POD)	Physical street address
Load Resource Information				X		Name of City for Point of Delivery (POD)	Name of city
Load Resource Information				X	Y/N	Is Load Netted From Generation at ERCOT Read Gensite?	Select whether Load is netted from generation
Load Resource Information				X	Y/N	Is Load Behind a NOIE Settlement Meter Point?	Select whether Load is behind a NOIE Settlement Meter
Load Resource Information				X	List	Load Resource Type (CLR/UFR/Interruptible)	Select from drop down list the Load Resource Type - CLR, UFR or Interruptible
Load Resource Information				X	Y/N	If CLR, will CLR be Dynamically Scheduling?	Select only if this Load Resource is a Controllable Load Resource
Load Resource Information				X	Y/N	If CLR, ability to operate as a UFR type Resource?	Select only if this Load Resource is a Controllable Load Resource
Load Resource Information				X	mm/dd/yyyy	Load Resource Effective Date	Enter the date the Load became a Load Resource.
Load Resource Information				X	mm/dd/yyyy	Load Resource Expiration Date	Enter the date the Load ceased being a Load Resource.
Load Resource Information				X	All Caps	Substation Name for POD	Enter the name of the substation that supplies service to the Point of Delivery of the Load Resource.
Load Resource Information				X	All Caps	Substation Code for POD	Enter the TDSP substation code.
Load Resource Information				X		Transmission Bus POD (PTI Bus No)	Enter the transmission bus location by bus number or by specifying the transmission line. (Luling to Gonzales 138KV, etc.)
Load Resource Information				X	KV	Transmission Station Voltage	Enter the voltage level of the station. Normally this will be between 2.4 and 138 KV.
Load Resource Information				X	All Caps	Transmission Station Load Name in Network Operations Model	Enter the Load Name as listed in the ERCOT model
Load Resource Information				X	List	Meter Reading Entity (TDSP)	Enter who reads the meter.
Load Resource Information				X	Automatic	Meter Reading Entity Duns Number	Enter the Duns number for the entity above.
Load Resource Information				X		ESIID assigned to meter	ESI ID number assigned to the meter
Load Resource Information				X	Y/N	Wholesale Delivery Point?	Enter Y or N, if the point of delivery is a wholesale delivery point.
Load Resource Information				X	List	Load Resource Control Device	Select the type of interrupting device. (Control Technology / Interruptible Switch / Circuit Breaker)
Load Resource Information				X	List	ERCOT Load Zone	Select the ERCOT Load Zone from the drop down list
Load Resource Information				X	MW	Maximum POD Total Load	Maximum MW Load total
Load Resource Information				X	MW	Maximum Interruptible Load MW	Maximum MW Interruptible Load total
Load Resource Information				X	MW	High Reasonability Limit	The High "Out-of-Bounds" value chosen by the Resource Entity and used by ERCOT for validation purposes
Load Resource Information				X	MW	Low Reasonability Limit	The Low "Out-of-Bounds" value chosen by the Resource Entity and used by ERCOT for validation purposes
Load Resource Information				X	MW/min	CLR High Reasonability Ramp Rate Limit	The High "Out-of-Bounds" ramp rate value chosen by the Resource Entity and used by ERCOT for validation purposes. Applies to Controllable Load Resources only
Load Resource Information				X	MW/min	CLR Low Reasonability Ramp Rate Limit	The Low "Out-of-Bounds" ramp rate value chosen by the Resource Entity and used by ERCOT for validation purposes. Applies to Controllable Load Resources only
Load Resource Information				X	Y/N	Private Use Network?	Select whether Load is part of a Private Use Network
Load Resource Parameters							
Load Resource Parameters				X	List	Dispatch Asset Code	Select the Dispatch Asset Code as provided from the Load Resources Information tab
Load Resource Parameters				X	hours	Minimum Interruption Time (Non-CLR)	The minimum number of consecutive hours the Resource can be deployed (between breaker open to breaker close).
Load Resource Parameters				X	hours	Minimum Restoration Time (Non-CLR)	The minimum number of consecutive hours the Resource must remain energized (not deployed), from the time the Resource is restored from interruption and available for the next potential interruption.
Load Resource Parameters				X		Max WEEKLY Deployments (Non-CLR)	The maximum number of times the Resource can be deployed in seven consecutive days under normal operating conditions;
Load Resource Parameters				X	hours	Max Interruption Time (Non-CLR)	The maximum number of consecutive hours the Resource can remain deployed before it needs to be energized.

Load Resource Parameters				X		Max DAILY Deployments (Non-CLR)	The maximum number of times the Resource can be deployed in a day under normal operating conditions.
Load Resource Parameters				X	MWh	Max Weekly Energy (Non-CLR)	The maximum amount of energy, in MWh, a for which the Resource can be deployed in seven consecutive days
Load Resource Parameters				X	minutes	Minimum Notice Time (Non-CLR)	The notice time that the Resource requires before deployment (e.g., instantaneous, 30 minutes, etc.).
Load Resource Parameters				X	hours	Max Deployment Time (CLR)	The maximum amount of time a Controllable Load Resource can be deployed before it must return to normal operating conditions.
Load Resource Parameters				X	MWh	Max Weekly Energy (CLR)	The maximum amount of energy a Controllable Load Resource can be deployed in seven consecutive days.
Load Resource Parameters				X	MW	MW1 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate1 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate1 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW2 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate2 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate2 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW3 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate3 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate3 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW4 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate4 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate4 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW5 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate5 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate5 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW6 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate6 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate6 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW7 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate7 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate7 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW8 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate8 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate8 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW9 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate9 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate9 (CLR NRRC)	Enter Normal Rate at which resource can decrease MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW	MW10 (CLR NRRC)	Normal Ramp Rate curve is a pairing (MW Output vs. Ramp Rate), enter MW value here
Load Resource Parameters				X	MW/min	Upward RampRate10 (CLR NRRC)	Enter Normal Rate at which resource can increase MW output in MW/minute for the given output level .

Load Resource Parameters				X	MW/min	Upward RampRate10 (CLR ERRC)	Enter Emergency Rate at which resource can increase MW output in MW/minute for the given output level .
Load Resource Parameters				X	MW/min	Downward RampRate10 (CLR ERRC)	Enter Emergency Rate at which resource can decrease MW output in MW/minute for the given output level .
Line Data (as applicable)							
Line Data	X	X	X		List	Description of Change	Select: description of change from drop down list: Add, Change or Delete
Line Data	X	X	X		All Caps	Line Name	Line names as listed in the ERCOT model, which must meet the character limitation of the system.
Line Data	X	X	X		kV	Line Voltage Level	Line Voltage Level
Line Data	X	X	X		p.u.	Resistance in p.u. (100 MVA Base)	Resistance in p.u. (100 MVA Base)
Line Data	X	X	X		p.u.	Reactance in p.u. (100 MVA Base)	Reactance in p.u. (100 MVA Base)
Line Data	X	X	X		p.u.	Charging Susceptance in p.y. (100 MVA Base)	Charging Susceptance in p.y. (100 MVA Base)
Line Data	X	X	X		p.u.	Zero Sequence Line Resistance in p.u. (100 MVA Base)	Zero Sequence Line Resistance in p.u. (100 MVA Base)
Line Data	X	X	X		p.u.	Zero Sequence Line Reactance in p.u. (100 MVA Base)	Zero Sequence Line Reactance in p.u. (100 MVA Base)
Line Data	X	X	X		p.u.	Zero Sequence Charging Susceptance in p.y. (100 MVA Base)	Zero Sequence Charging Susceptance in p.y. (100 MVA Base)
Line Data	X	X	X		List	Type	Select line type from drop down list: Overhead, Underground or Both
Line Data	X	X	X		miles	Segment Length	Length of this line segment
Line Data	X	X	X		All Caps	ERCOT TO Station Code Mnemonic	Enter the station code mnemonic of the TO station for this Line
Line Data	X	X	X		Y/N	Internal Line?	Is this line internal to the station (i.e. not directly connected to the TDSP)?
Line Data	X	X	X		List	TSP Name	Select TSP Name from the drop down list
Line Data	X	X	X		All Caps	Connected Device 1	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 2	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 3	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 4	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 5	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 6	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 7	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 8	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 9	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 10	Enter device connected to this line in the TO station (can provide up to 10)
Line Data	X	X	X		Number	Bus Number (PTI Bus Number)	Enter PTI Bus number connecting this line in the TO station
Line Data	X	X	X		List	Weather Zone / Weather Station (used for Dynamic Ratings)	Select Weather zone or station from the drop down list
Line Data	X	X	X		All Caps	ERCOT FROM Station Code Mnemonic	Enter the station code mnemonic of the FROM station for this Line
Line Data	X	X	X		All Caps	Connected Device 1	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 2	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 3	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 4	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 5	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 6	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 7	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 8	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 9	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		All Caps	Connected Device 10	Enter device connected to this line in the FROM station (can provide up to 10)
Line Data	X	X	X		Number	Bus Number (PTI Bus Number)	Enter PTI Bus number connecting this line in the FROM station
Line Data	X	X	X		List	Weather Zone / Weather Station (used for Dynamic Ratings)	Select Weather zone or station from the drop down list
Line Data	X	X	X		Automatic	Line Code	Concatenated code automatically provided
Line Data	X	X	X			Comments	Enter any comments regarding this Line data
Line Data	X	X	X		mm/dd/yyyy	Effective Date	Date this line was added, removed or updated in the model
Line Temperature (as applicable)							
Line Temperature	X	X	X		Automatic	Line Name	Automatically provided based on lines listed in the Line data tab
Line Temperature	X	X	X		Automatic	Line Code	Automatically provided based on line codes listed in the Line data tab
Line Temperature	X	X	X		List	Line Rating	Select Static or Dynamic line rating
Line Temperature	X	X	X		MVA	Continuous Rating	Rating that line can operate at indefinitely without damage, or violation fo NESC clearances.
Line Temperature	X	X	X		MVA	2-hr Emergency Rating	Rating that line can operate at this rating for two hours without violation of NESC clearances or equipment failure
Line Temperature	X	X	X		MVA	15-min Rating	Rating that line can operate at this rating for fifteen minutes without violation of NESC clearances or equipment failure

Line Temperature	X	X	X		MVA	Planning Rate C	Represents the two hour MVA rating of the conductor or transformer only,excluding substation terminal equipment in series with a conductor or transformer, at the applicable ambient temperature without violation of NESC clearances or equipment failure.
Line Temperature	X	X	X		MVA	20 °F - Continuous Rating - 115 °F Continuous Rating	Rating that line can operate at indefinitely without damage, or violation fo NESC clearances at the stated temperature.
Line Temperature	X	X	X		MVA	20 °F - 2-hr Emergency Rating - 115 °F 2-hr Emergency Rating	Rating that line can operate at this rating for two hours without violation of NESC clearances or equipment failure at the stated temperature.
Line Temperature	X	X	X		MVA	20 °F - 15-min Rating - 115 °F 15-min Rating	Rating that line can operate at this rating for fifteen minutes without violation of NESC clearances or equipment failure at the stated temperature.
Line Temperature	X	X	X		MVA	20 °F - Planning Rate C - 115 °F - Planning Rate C	Represents the two hour MVA rating of the conductor or transformer only,excluding substation terminal equipment in series with a conductor or transformer, at the stated ambient temperature without violation of NESC clearances or equipment failure.
Breaker Switch Data (as applicable)							
Breaker Switch Data	X	X	X		List	Description of Change	Select: description of change from drop down list: Add, Change or Delete
Breaker Switch Data	X	X	X		All Caps	Switch Name	Breaker or Switch name as provided in the ERCOT model, which must meet the character limitation of the system.
Breaker Switch Data	X	X	X		All Caps	ERCOT Station Name (Station Code or Station Mnemonic)	ERCOT Station Code Mnemonic that the breaker or switch is located, as listed in the model
Breaker Switch Data	X	X	X		Automatic	Switch Code	Concatenated code automatically provided
Breaker Switch Data	X	X	X		Y/N	Is This A Fault Islating Device (e.g. Circuit Breaker)	Select Y if device is Breaker, or N if device is a Switch
Breaker Switch Data	X	X	X		List	Normal Operating Status (when in service)	Select whether Open or Closed during normal operations
Breaker Switch Data	X	X	X		kV	Voltage Level	Enter voltage level of this breaker or switch
Breaker Switch Data	X	X	X		MVA	Continuous Rating	Rating that device can operate at indefinitely without damage, or violation fo NESC clearances.
Breaker Switch Data	X	X	X		MVA	2-hr Emergency Rating	Rating that device can operate at this rating for two hours without violation of NESC clearances or equipment failure
Breaker Switch Data	X	X	X		MVA	15-min Rating	Rating that device can operate at this rating for fifteen minutes without violation of NESC clearances or equipment failure
Breaker Switch Data	X	X	X		All Caps	Connected Device 1	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 2	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 3	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 4	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 5	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 6	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 7	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 8	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 9	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 10	Enter device connected to this breaker or switch on Side 1 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 1	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 2	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 3	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 4	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 5	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 6	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 7	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 8	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 9	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X		All Caps	Connected Device 10	Enter device connected to this breaker or switch on Side 2 (can provide up to 10)
Breaker Switch Data	X	X	X			Comments	Enter any comments regarding this breaker-switch data
Breaker Switch Data	X	X	X		mm/dd/yyyy	Effective Date	Date this breaker or switch was added, removed or updated in the model
Capacitor and Reactor Data (as applicable)							
Capacitor and Reactor Data	X	X	X		List	Description of Change	Select: description of change from drop down list: Add, Change or Delete

Resource Registration Glossary Workbook Contents

Workbooks	Tabs --->		
General Site ESIID	Instructions	General and Site Information	GEN Load Split - ESIID
Generation	Instructions	Unit Info - GEN	Unit Info - AGR
Wind	Instructions	Unit Info - WIND	Turbine Details
Combined Cycle	Instructions	Unit Info - TRAIN	Unit Info - CC
Transmission	Instructions	Line Data	Line Temperature
Non-Modeled Gen	Instructions	Unit Info - DG	

Zero Sequence Data - Winding Connection Code (Current)

Zero Sequence Data - Winding Connection Code (1-9)

FIS Only

1. Reduced from original 1-9 to 1-5
2. Test Report needed for Code 5

Transformer Connection Codes	
2 Winding Transformers (in order of voltage highest first)	
1	Wye - Wye Bank Both Neutrals Grounded
2	Wye - Delta Bank Grounded Y
3	Delta - Wye Bank Grounded Wye
	Delta - Delta Bank
	Wye - Delta Bank Ungrounded Wye
	Delta - Wye Bank Ungrounded Wye
4	Wye - Wye Bank Either Wye Ungrounded
5	Three Winding only

Private Network - Site		
Ownership - GEN	Parameters - GEN	Operational Parameters - GEN
Ownership - WIND	Parameters - WIND	Operational Parameters - WIND
Ownership - CC	Parameters - CC	CC Configurations
Breaker Switch Data	Capacitor and Reactor Data	Transformer Data

Operational Parameters - NRRC	Operational Parameters - ERRC	Private Network - Unit
Operational Parameters - NRRC	Operational Parameters - ERRC	Private Network - Unit
CC Transitions	Parameters - CFG	Operational Parameters - CFG
Transformer Tap Settings	Static Var Compensator Data	Series Device Data

Reactive Capability - GEN	Planning - GEN	Protection - GEN
Reactive Capability - WIND	Planning - WIND	Protection - WIND
Operational Parameters - NRRC	Operational Parameters - ERRC	Private Network - Unit
Load Data	PUN Load	One Line

SubSync - GEN	Stability Study Model	PSCAD Model	Dynamic Data
Collector System - WIND	Collector System - Wind Seg Data	Stability Study Model	PSCAD Model
Reactive Capability - CC	Planning - CC	Protection - CC	SubSync - CC
Transformer Test Data			

Dynamic Data		
Stability Study Model	PSCAD Model	Dynamic Data