FilingInformation		Basic information about a Seller's market-based rate authority (gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
	mbr_filing_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g. eFiling Submission Report)	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
	TestFiling	Indicates whether this is a test submission that will not be inserted into the database.	Option List true false	N	CHARACTER(5)		
	reporting_entity_cid	Company Identifier of the MBR Seller that is making this submission.	Foreign Key (CID	N	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
	eRegEmail	eRegistered email of the MBR Seller making this Submission.		N	CHARACTER VARYING		Must be a valid eRegistered email address, allowed to make the MBR submission on behalf of the reporting_entity_cid

mbr_authorizations			*Basic information about a Seller's market-based rate authority*				
			(gray rows auto-populated by database system)				
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
	mbr_authorization_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g. eFiling Submission Report)	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	

	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the mbr_authorizations_table.
	authorization_docket_number	Docket number of the order first granting the reporting entity market-based rate authorization.		N	CHARACTER VARYING(15)	XXXX-X-XXX; XXXX-XX-XXX; XXXX-XXX-XXX; or XXXX-XXXX-XXX	
	authorization_effective_date	Date the reporting entity's market-based rate authorization initially became effective. If the reporting entity's market-based rate authorization has not yet been accepted, enter the proposed effective date.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
	cancellation_docket_number	Docket number of the order accepting the cancellation of the reporting entity's market-based rate authorization.		Y	CHARACTER VARYING(15)	XXXX-X-XXX; XXXX-XX-XXX; XXXX-XXX-XXX; or XXXX-XXXX-XXX	
	cancellation_effective_date	Effective date of the cancellation of the reporting entity's market-based rate authorization.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Value must be ≥ than authorization_effective_date

mbr_category_status		*The Seller's Category status in all six market-based rate regions*					
		(gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	cat_status_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g. eFiling Submission Report)	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	

8	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the mbr_category_status table.
9	region_cd	Region identifier.	Option List **NW** – Northwest **SW** – Southwest **CE** – Central **SPP** – Southwest Power Pool **NE** – Northeast **SE** - Southeast	N	CHARACTER(3)	NA	Link to ID which are characters in the Region lookup table.
10	cat_status_in_region_fk	Category status in region.	Option List 1 - Category 1 2 - Category 2 3 - No MBR authority in the region	N	INTEGER	NA	Link to ID which is a number in the Cat Status lookup table.
11	cat_status_effective_date	Effective date of tariff where this category status was implemented.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date **Required** if cat_status_in_region_fk is "1" or "2".

mbr_mitigations		Listing of the markets/BAAs where the Seller is mitigated (gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	mbr_mitigations_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	
8	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the mbr_mitigations_table.

9	Balancing_Authority_cd	Identifier for the market/BAA where the reporting entity is mitigated.	Foreign Key (balancing authority areas)	N	CHARACTER VARYING(5)	NA	Must match a valid BAA code from the BAA lookup table.
10	mitigation_narrative	Narrative description of the mitigation specifying type of mitigation, etc.		Y	CHARACTER VARYING(MAX)	NA	
11	mitigation_effective_date	Effective date of tariff where the mitigation was implemented.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
12	mitigation_end_date	Effective date of tariff where the mitigation was removed.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Value must be ≥ than mitigation_effective_date

mbr_self_limitations			*Listing of the regions and/or BAAs where the Seller has limited its own market-based rate authority through its tariff*					
			(gray rows auto-populated by database system)					
#	**Attribute**	**Description**	**Identifier Type**	**Nullable**	**SQL Type**	**Format**	**Validations**	
1	mbr_self_limitations_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA		
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.	
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA		
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)		
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)		
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA		
7	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA		

8	reference_id	If updating an existing record, provides a link to the existing record.		Y	F		Must match an existing record identifier in the mbr_self_limitations_table.
9	region_cd	Identifier for the region where the reporting entity is authorized to transact at market-based rates. Report a region to indicate that the reporting entity is authorized to transact at market-based rates in all markets/BAAs within the region.	Options List **NW** – Northwest **SW** – Southwest **CE** – Central **SPP** – Southwest Power Pool **NE** – Northeast **SE** - Southeast	Y	CHARACTER VARYING(3)		Link to ID which is character in Region lookup table.
10	Balancing_Authority_cd	Identifier for the market/BAA where the reporting entity is authorized to transact at market-based rates.	Foreign Key (balancing authority areas)	Y	CHARACTER VARYING(5)		Must match a valid BAA code from the BAA lookup table.
11	self_limit_effective_date	Effective date of tariff where the self-limitation was implemented.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
12	self_limit_end_date	Effective date of tariff where the self-limitation was removed.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Value must be ≥ than self_limit_effective_date

mbr_operating_reserves		*Listing of the markets/BAAs where the Seller is authorized to sell operating reserves (excludes RTO/ISOs)*					
		(gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	mbr_operating_reserves_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	
8	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the mbr_operating_reserves_t able.
9	Balancing_Authority_cd	Identifier for the market/BAA where the reporting entity is authorized to sell operating reserves.	Foreign Key (balancing authority areas)	N	CHARACTER VARYING(5)		Must match a valid BAA code from the BAA lookup table.

10	or_authorization_effective_date	Effective date of tariff specifying where seller is authorized to sell operating reserves.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
11	or_authorization_end_date	Effective date of tariff where the operating reserve authorization was removed.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Value must be ≥ than or_authorization_effective _date

entities_to_entities		*Mapping of reporting entities to ultimate upstream affiliates* (gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	entities_entities_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	Valid date
5	inactive_date	Date that this specific record became inactive in the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	Valid date value must be ≥ active_date
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	
8	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the entities_to_entities_table.

9	reportable_entity_ID_type_CD	User selects which one of the three ID types they will provide for these 2 fields. -Company Identifier of the reportable entity. (Required if available.) -Legal Entity Identifier of the reportable entity. (Required if available and CID is not available.) -FERC generated ID of the reportable entity. (Required if CID and LEI are not available.)	Options List CID LEI GID	N	CHARACTER(3)		
10	reportable_entity_ID	CID, LEI, or GID for the entity being reported.	Foreign Key (CID) Foreign Key (LEI) Foreign Key (GID)	N	CHARACTER(7) CHARACTER(20) CHARACTER(10)		Must match an active ID Type Link to CD which is code in ID Type lookup table
11	relationship_start_date	Date reported relationship started.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
12	relationship_end_date	Date reported relationship ended.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date value must be ≥ relationship_start_date

#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
entities_to_genassets			*Mapping of reporting entities to generator assets* (gray rows auto-populated by database system)				
1	entities_genassets_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	EIA_fk	Populated only when the gen_asset_type_fk is "EIA," for internal tracking purposes		Y (auto-populated by database system)	INTEGER	NA	
8	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	
9	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the entities_to_genassets_table.

10	gen_asset_type_fk	User selects whether it will identify the generator using EIA Information or a FERC-generated Asset ID	Options List 1- EIA 2- Asset ID	N	INTEGER		
11	eia_plant_code_cd (eia_plant_cd) EIA data hierarchy: Plant Code ->Gen ->Unit e.g. Plant code = 123	"Plant Code" assigned to the plant as found in the EIA-860 data.	Foreign Key (EIA)	Y	CHARACTER VARYING (MAX of EIA Code)	NA	Required if "gen_asset_type_fk" is EIA. Must provide valid code from EIA lookup table value for Plant Code. Must match a "Plant Code" found in the EIA-860 data EIA data is uploaded into the MBR EIA lookup table annually from the EIA external source.
12	eia_ generator_id EIA data hierarchy: Plant Code ->Gen ->Unit e.g. Plant code = 200 Generator ID = 3	"Generator ID" assigned to the generator as found in the EIA-860 data.	Foreign Key (EIA)	Y	CHARACTER VARYING (MAX of EIA Code)	NA	Required if "gen_asset_type_fk" is EIA. Must provide valid ID from EIA lookup table value for Generators. Must match a valid "Generator" found in the EIA-860 data for the given EIA Plant Code. EIA data is uploaded into the MBR EIA lookup table annually from the EIA external source.

13	eia_unit_code (eia_unit_code)
	
	EIA data hierarchy:
	Plant Code ->Gen ->Unit
	
	e.g. Plant code = 200
	        Generator ID = 3
	          Unit Code = ABC
		"Unit Code" assigned to linked generators (e.g. combined cycle) as found in the EIA-860 data (if applicable).	Foreign Key (EIA)	Y	CHARACTER VARYING(7)		Must provide valid ID from EIA lookup table value for Unit Codes.
							
							Must match a valid "Unit Code" found in the EIA-860 data for the given EIA Plant Code and Generator.
							
							EIA data is uploaded into the MBR EIA lookup table annually from the EIA external source

14	ferc_asset_Gen_code	The FERC Asset ID assigned to the asset. Asset IDs can be obtained by filers for assets that do not have EIA codes.	Foreign Key (Asset ID)	Y	CHARACTER(10)	FAXXXXXXX	Required if "gen_asset_type_fk" is Asset ID. Must match an Asset ID in the Asset Lookup table in the MBR database.
15	entity_ID_type_CD	User selects which one of the three ID types they will provide for these 2 fields. -Company Identifier of the reportable entity. (Required if available.) -Legal Entity Identifier of the reportable entity. (Required if available and CID is not available.) -FERC generated ID of the reportable entity. (Required if CID and LEI are not available.)	Options List CID LEI GID	N	CHARACTER(3)		
16	entity_ID	CID, LEI, or GID for the entity that owns and/or controls the generator being reported.	Foreign Key (CID) Foreign Key (LEI) Foreign Key (GID)	N	CHARACTER(7) CHARACTER(20) CHARACTER(10)		Must match an active ID Type Link to CD which is code in Entity Type lookup table
17	relationship_type_fk	Indicator of whether an ownership or control relationship is being reported.	Option List 1 – Ownership 2 – Control 3 – Both Own and Control	N	INTEGER(1)		Link to ID which is number in the Relationship lookup table
18	relationship_start_date	Date the reported relationship with the generation asset began.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
19	relationship_end_date	Date the reported relationship with the generation asset ended.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date - Value should be ≥ than relationship_start_date.

20	physical_location_ Balancing_Authority_cd	Identifier for the market/BAA where the generator is physically located.	Foreign Key (balancing authority areas)	N	CHARACTER VARYING(5)		Must match an ID on the BAA reference table. Link to baa CD which is code in BAA lookup table
21	telemetered_location_Balancing_Authority_cd	Identifier for the market/BAA that is the destination (sink) market/BAA of remote generation or where a generator is pseudo-tied or committed with long term transmission rights (i.e. where this generation should be studied in an MBR submittal).	Foreign Key (balancing authority areas)	N	CHARACTER VARYING(5)		Must match an ID on the BAA reference table. Link to baa CD which is code in BAA lookup table
22	cap_rating_adjusted	De-rated capacity value for the generator. (See adj_rating_options_cd).		N	NUMERIC(6:2)		Must be a positive number.
23	adj_rating_options_cd	The de-rating methodology used to calculate the value reported in cap_rating_adjusted. (See P 266 of FERC Order No. 816 for more information on the allowed methodologies.)	Option List 1- Nameplate 2- Seasonal 3- 5-yr Unit 4- 5-yr EIA 5- Alternative	N	INTEGER(1)		Link to ID which is link to the Rating Option lookup table
24	alt_methodology_used	If adj_rating_options_cd is "Alternative". Alternative description of the alternative methodology used to calculate the de-rated capacity value. (See FERC Order No. 816 at P 106.)		Y	CHARACTER VARYING(MAX)		Required if adj_rating_options_cd is 5 (Alternative).
25	amount	Capacity (in MW) of the generator that is attributed to the reporting entity or non-MBR affiliate. This can differ from the cap_rating_adjusted field if the reported entity is not entitled to the full output of the facility.		N	NUMERIC(6:2)	NA	Must be a non-negative number.

26	explanatory_notes	Optional narrative description.		Y	CHARACTER VARYING(MAX)	NA	

entities_to_ppas	*Mapping of reporting entities (or their non-mbr affiliates) to their long-term power purchase agreements*						
		(gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	entities_ppa_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	EIA_fk	Populated only when the gen_asset_type_fk is "EIA," for internal tracking purposes		Y (auto-populated by database system)	INTEGER	NA	
8	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List

New

Update | N | CHARACTER(6) | NA | |
| 9 | reference_id | If updating an existing record, provides a link to the existing record. | | Y | | | Must match an existing record identifier in the entities_to_ppa_table. |
| 10 | entity_id_type_cd | User selects which one of the three ID types they will provide for these 2 fields. | Options List

CID
LEI | N | CHARACTER(3) | | Link to CD which is code in Entity Type lookup table. |

		-Company Identifier of the reportable entity. (Required if available.) -Legal Entity Identifier of the reportable entity. (Required if available and CID is not available.) -FERC generated ID of the reportable entity. (Required if CID and LEI are not available.)	GID				
11	entity _ID	CID, LEI, or GID of the entity for whom the PPA is being reported.	Foreign Key (CID) Foreign Key (LEI) Foreign Key (GID)	N	CHARACTER(7) CHARACTER(20) CHARACTER(10)		Must match an active ID Type Link to CD which is code in Entity Type lookup table.
12	date_of_last_change	(If submission type is "Update") The date the change that is being reported occurred.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Required if record_type_cd is "Update."
13	ppa_agreement_id_fk	An identifier chosen by the reporting entity that can be used to refer to the PPA, if needed. When possible, the reporting entity should use the identifier used in EQR Field 20.		Y	CHARACTER(30)	NA	If record_type_cd is "New", the submitted identifier should not have previously been used by this reporting entity. If record_type_cd is "Update", the submitted identifier must be an identifier previously submitted by this reporting entity.
14	counterparty_ID_type_CD	User selects which one of the three ID types they will provide for these 2 fields. -Company Identifier of the reportable entity. (Required if available). -Legal Entity Identifier of the reportable entity. (Required if available and CID is not available). -FERC generated ID of the reportable entity. (Required	Options List CID LEI GID	N	CHARACTER (3)		

		if CID and LEI are not available).					
15	counterparty_ID	CID, LEI, or GID for the counterparty of the PPA.	Foreign Key (CID) Foreign Key (LEI) Foreign Key (GID)	N	CHARACTER(7) CHARACTER(20) CHARACTER(10)		Must match an active ID Type. Link to CD which is code in ID Type lookup table.
16	ppa_type_fk	Identifies whether the reporting entity or its non-MBR affiliate is the purchaser or seller of energy/capacity.	Option List 1 - Purchase 2 - Sale	N	INTEGER (1)		Link to ID which is link to the PPA Type lookup table.
17	supply_type_fk	The source of supply for the PPA. If "Other" is selected, provide an explanation in the explanatory_notes field.	Option List 1 - Generator Specific 2 - Slice of System 3 - Portfolio 4 - Other	N	INTEGER		Link to ID which is link to the Supply Type lookup table.
18	gen_asset_type_fk	User selects whether it will identify the generator using EIA Information or a FERC-generated Asset ID	Options List 1- EIA 2- Asset ID	N	INTEGER		Required if supply_type_fk is "Generator Specific".
19	eia_plant_code (eia_plant_cd) EIA data hierarchy: Plant Code ->Gen ->Unit e.g., Plant code = 123	"Plant Code" assigned to the plant as found in the EIA-860 data.	Foreign Key (EIA)	Y	CHARACTER VARYING (MAX of EIA Code)		Required if supply_type_fk is "Generator Specific" and gen_asset_type_fk is "EIA." Must provide valid code from EIA lookup table value for Plant Code. Must match a "Plant Code" found in the EIA-860 data EIA data is uploaded into the

							MBR EIA lookup table annually from the EIA external source
20	eia_generator_id (eia_generator) EIA data hierarchy: Plant Code -> Gen -> Unit e.g., Plant code = 200 　　　Generator ID = 3	"Generator ID" assigned to the generator as found in the EIA-860 data.	Foreign Key (EIA)	Y		CHARACTER VARYING (MAX of EIA Code)		Required if supply_type_fk is "Generator Specific" and gen_asset_type_fk is "EIA." Must provide valid ID from EIA lookup table value for Generators. Must match a valid "Generator" found in the EIA-860 data for the given EIA Plant Code. EIA data is uploaded into the MBR EIA lookup table annually from the EIA external source
21	eia_unit_code_fk (eia_unit_code) EIA data hierarchy: Plant Code ->Gen ->Unit e.g., Plant code = 200 　　　Generator ID = 3 　　　　Unit Code FK = ABC	"Unit Code" assigned to linked generators (e.g., combined cycle) as found in the EIA-860 data (if applicable).	Foreign Key (EIA)	Y		CHARACTER VARYING (MAX of EIA Code)		Must provide valid ID from EIA lookup table value for Unit Codes. Must match a valid "Unit Code" found in the EIA-860 data for the given EIA Plant Code and Generator. EIA data is uploaded into the MBR EIA lookup table annually from the EIA external source

22	ferc_asset_Gen_code	(If supply_type_fk is "1"; and gen_asset_type is "1"). The FERC Asset ID assigned to the asset. Asset IDs can be obtained by filers for assets that do not have EIA codes.	Foreign Key (Asset ID)	Y	INTEGER (10)		Required if supply_type_fk is "Generator Specific" and gen_asset_type_fk is "Asset ID" Must provide (eia_plant_code AND eia_generator_id) OR ferc_asset_id). Must match an Asset ID in the Asset Lookup table in the MBR database.
23	start_date	The contractual start date of the PPA.		N	DATE	YYYY-MM-DD (ANSI)	Valid date
24	scheduled_end_date	The date the PPA is scheduled to end (if known).		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Value must be ≥ start_date
25	actual_end_date	If the PPA has ended, the date the PPA ended.		Y	DATE	YYYY-MM-DD (ANSI)	Valid date Value must be ≥ start_date
26	amount	The megawatt (MW) amount of the PPA. If the PPA is for capacity, provide the specified amount, in MW. For energy-only PPAs, convert the units into MW equivalents using the formula set forth in Order No. 816 at PP 140-144, and FN 178.		N	NUMERIC(6:2)		Must be a non-negative number.

27	amount_adjusted	De-rated capacity value of the PPA. (See adj_rating_options_cd.) (If supply_type_fk is "1" (generator specific) and you want to provide a de-rated capacity amount) De-rated capacity value of the PPA. (See adj_rating_options_cd.)		Y	NUMERIC(6:2)		Null if supply_type_fk is not "Generator Specific". Must be a positive number less than the nameplate capacity of the corresponding generator.
28	adj_rating_options_cd	The de-rating methodology used to calculate the de-rated capacity value reported in the amount_adjusted field. (See P266 of FERC Order No. 816 for more information on the allowed methodologies.)	Option List 1 – Nameplate 2 - Seasonal 3 - 5-yr Unit 4 - 5-yr EIA 5 - Alternative	Y	INTEGER(1)		Null if supply_type_fk is not "Generator Specific". Link to ID for Rating Options look up table.
29	alt_methodology_used	If adj_rating_options_cd is '4' (Alternative): Narrative description of the alternative methodology used to calculate the de-rated capacity value. (See FERC Order No. 816 at P 106.)		Y	CHARACTER VARYING(MAX)		Null if supply_type_fk is not "Generator Specific". Required if adj_rating_options_cd is "Alternative".
30	source_balancing_authority_cd	Identifier for the market/BAA where the energy/capacity is sourced. If the energy/capacity is sourced at a hub, provide the identifier corresponding to "Hub" and provide a value for source_balancing_authority_hub_cd. May be the point of receipt BAA (PORBA) in a contract.	Foreign Key (balancing authority areas)	Y	CHARACTER VARYING(5)		Required if ppa_type is "Sale". Must match an ID on the BAA reference table. Link to baa CD which is code in BAA lookup table
31	source_balancing_authority_hub_cd	(If source_balancing_authority_cd	Foreign Key (Hubs)	Y	CHARACTER VARYING(11)		Required if ppa_type_fk is sale and source_baa is "Hub".

		is "Hub") Identifier for the hub where the energy/capacity will source.					Must match an ID on the Hub reference table. Link to baa CD which is code in BAA lookup table
32	sink_balancing_authority_cd	Identifier for the market/BAA where the energy/capacity will sink. If the energy/capacity will sink at a hub, provide the identifier corresponding to "Hub" and provide a value for sink_balancing_authority_hub_cd . May be the point of delivery (PODBA) in a contract.	Foreign Key (balancing authority areas)	Y	CHARACTER VARYING(5)		Required if ppa_type_fk is "Purchase". Must match an ID on the BAA reference table. Link to baa CD which is code in BAA lookup table
33	sink_balancing_authority_hub_cd	(If sink_balancing_authority_cd is "Hub"). Identifier for the hub where the energy/capacity will sink.	Foreign Key (Hubs)	Y	CHARACTER VARYING(11)		Required if ppa_type_fk is purchase and sink_baa_fk is Hub. Must match an ID on the Hub reference table. Link to baa CD which is code in BAA lookup table.
34	explanatory_notes	Optional narrative description of any unique qualities of this PPA not captured elsewhere.		Y	CHARACTER VARYING(MAX)		Required if supply_type_fk is "Other".

entities_to_vertical_assets		Mapping of reporting entities (or their non-mbr affiliates) to their vertical assets (gray rows auto-populated by database system)					
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	Entities_to_vertical_assets_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	active_date	Date that this specific record became active within the database.		N (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
5	inactive_date	Date that this specific record became inactive in the database.		Y (auto-populated by database system)	DATE	YYYY-MM-DD (ANSI)	
6	updated_record_id	If record has been updated, the identifier of the succeeding record.		Y (auto-populated by database system)	INTEGER	NA	
7	record_type_cd	Indicates whether this is a new submission or a submission to update an existing record.	Option List New Update	N	CHARACTER(6)	NA	

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8	reference_id	If updating an existing record, provides a link to the existing record.		Y			Must match an existing record identifier in the entities to vertical assets table.
9	entity _ID	User selects which one of the three ID types they will provide for these 2 fields. -Company Identifier of the reportable entity. (Required if available.) -Legal Entity Identifier of the reportable entity. (Required if available and CID is not available.) -FERC generated ID of the reportable entity. (Required if CID and LEI are not available.)	Foreign Key (CID) Foreign Key (LEI) Foreign Key (GID)	N	CHARACTER(7) CHARACTER(20) CHARACTER(10)		
10	entity_ID_type_CD	CID, LEI, or GID that owns, operates, or controls the vertical asset.	Options List CID LEI GID	N	CHARACTER(3)		Must match an active ID Type. Link to CD which is code in ID Type lookup table.
11	vertical_asset_type_fk	The type of vertical asset being reported.	Option List 1 - Transmission Asset 2 - Intrastate Pipeline 3 - Gas Storage 4 - Gas Distribution 5 - Other Input	N	INTEGER		Link to ID which is a code in Asset Type lookup table.
12	Balancing_Authority_cd	Identifier for the market/BAA where the vertical asset is located.	Foreign Key (balancing authority areas)	N	CHARACTER VARYING(5)		Link to balancing au thority which is code in BAA lookup table.
13	explanatory_notes	Optional narrative description.		Y	CHARACTER VARYING(MAX)		

| indicative_pss | | | | *Market-based rate pivotal supplier screen inputs* | | |
				(gray rows auto-populated by database system)		
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	indicative_pss_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	study_type_fk	Flag indicating whether the entity is submitting this screen for the first time or amending/replacing a previously submitted screen.	Option List 1 - New (entity is submitting this screen for the first time) 2 - Update (entity is revising its own previously submitted screen)	N	INTEGER		Link to ID for Study Type lookup table.
5	study_amended_reference_cd	(If study_type is "Update") The serial number of the study (from the PSS) to be amended/replaced.	Foreign Key (PSS)	Y	INTEGER *Will be supplied later*	NA	Null if study_type is "New". Required if study_type is "Update". If study_type is "Update" must be a valid, existing serial number for a pivotal supplier screen

							previously submitted by the reporting entity. Link to ID for PSS lookup table. *** This should match a PSS which belongs to the filing company CID **
6	pss_study_reference_fk	If the submitted screen relies on a previously submitted screen, provide the serial number of the screen that it relies on.	Foreign Key (PSS)	Y	INTEGER *Will be supplied later*	NA	If not null, must match an existing serial number for a pivotal supplier screen. Link to ID for PSS lookup table.
7	study_end_year	The year that the data year of the submitted screen ends. For example, if your study uses the data year December 1, 2015 to November 30, 2016, the study_end_year is "2016."		N	CHARACTER(4)	YYYY	Must be a current or historical year.
8	Study_area_balancing_authority _cd	Identifier for the market/BAA or submarket that is being studied.	Foreign Key (balancing authority areas)	N	CHARACTER VARYING(5)	NA	Must match an ID on the BAA reference table. Link to ID for PSS lookup table.
9	scenario_type_fk	Indicator of whether the submitted screen is a base case scenario or a sensitivity analysis.	Option List 1 - Base Case 2 - Sensitivity Analysis	N	CHARACTER VARYING(2)	NA	Link to ID for Scenario Type lookup table.

| 10 | study_parameter_fk | 1 - Seller Installed Capacity 2 - Seller Remote Capacity 3 - Seller LT Firm Purchases from Inside 4 - Seller LT Firm Purchases from Outside 5 - Seller LT Firm Sales 6 - Seller Uncommitted Capacity Imports 7 - Non-Affiliate Installed Capacity 8 - Non-Affiliate Remote Capacity 9 - Non-Affiliate LT Firm Purchases from Inside 10 - Non-Affiliate LT Firm Purchases from Outside 11 - Non-Affiliate LT Firm Sales 12- Non-Affiliate Uncommitted Capacity Imports 13 - Study Area Reserve Requirement 14 - Reserve Requirement Attributable to Seller 15 - Total Uncommitted Supply 16 - Study Area Annual Peak Load 17 - Average Daily Peak Native Load in Peak Month 18 - Amount of Average Daily Peak Native Load Attributable to Seller | Option List | N | INTEGER | NA | Must provide a value for each study parameter.

Link to ID for Study Parameter lookup table. |
|----|--------------------|------|------|---|---------|----|----|

		19 - Wholesale Load 20 - Net Uncommitted Supply 21 - Seller Uncommitted Capacity 22 - Result (0 for Fail, 1 for Pass) 23 - Total Imports 24 - Seller Percent of SIL 25 - Non-Affiliate Percent of SIL 26 - SIL Value 27 - SIL Limit Exceeded (0 for No, 1 for Yes)					
11	study_parameter_value			N	NUMERIC (8:2)	NA	Validations will check that the values provided are consistent.
12	study_parameter_reference	(Optional) Narrative description of the data source used to		Y	CHARACTER VARYING(MAX)	NA	

		determine study parameter value.					

indicative_mss			Market-based rate market share screen inputs (gray rows auto-populated by database system)				
#	Attribute	Description	Identifier Type	Nullable	SQL Type	Format	Validations
1	indicative_mss_id	Unique, table-specific, record identifier autogenerated by the database system on submission. Functions to uniquely identify each row in a given table.	Primary Key	N (auto-populated by database system)	INTEGER	NA	
2	reporting_entity_cid_cd	Company Identifier of the reporting entity.	Foreign Key (CID)	N (auto-populated by database system)	CHARACTER(7)	CXXXXXX	Must match an active Company Identifier registered with FERC.
3	mbr_submission_fk	The unique identifier for the submission integrated with the FOL application (e.g., eFiling Submission Report).	Foreign Key (submissions)	N (auto-populated by database system)	INTEGER	NA	
4	study_type_fk	Flag indicating whether the entity is submitting this screen for the first time or amending/replacing a previously submitted screen.	Option List 1 - New (entity is submitting this screen for the first time) 2 - Replace (entity is	N	INTEGER	NA	Link to ID for Study Type lookup table.

					revising its own previously submitted screen).		
5	study_amended_reference_cd	(If study_type_fk is "Replace") The serial number of the study to be amended/replaced.	Foreign Key (MSS)	Y	INTEGER *Will be supplied later*	NA	Null if study_type_fk is "New". Required if study_type_fk is "Update". If study_type_fk is amended, must be a valid, existing serial number for a wholesale market share screen previously submitted by the reporting entity. Link to the MSS table where ID of the MSS record is reflected in this field.
6	mss_study_reference_fk	If the submitted screen relies on a previously submitted screen, provide the serial number of the screen that it relies on.	Foreign Key (MSS)	Y	INTEGER *Will be supplied later*	NA	If not null, must match an existing serial number for a wholesale market share screen. Link to the MSS table where ID of the MSS record is reflected in this field.
7	study_end_year	The year that the data year of the submitted screen ends. For example, if your study uses the data year December 1, 2015 to November 30, 2016, the study_end_year is "2016").		N	CHARACTER (4)	YYYY	Must be a current or historical year.
8	study_area_balancing_authority_cd	Identifier for the market/BAA or submarket that is being studied.	Foreign Key (balancing authority areas)	N	INTEGER		Must match an ID on the BAA reference table. Link to the BAA table where ID of the BAA record is reflected in this field.

9	scenario_type_fk	Indicator of whether the submitted screen is a base case scenario or a sensitivity analysis.	Option List 0 – Base Case 1 – Sensitivity Analysis	N	INTEGER)		Link to the Scenario Type lookup table where ID of the Scenario Type is reflected in this field.
10	Season_fk	The relevant season.	Option List 1 – Winter 2 – Spring 3 – Summer 4 – Fall	N	INTEGER		Link to the ID for season from the Season Lookup table.
11	study_parameter_fk	1 - Seller Installed Capacity 2 - Seller Remote Capacity 3 - Seller LT Firm Purchases from Inside 4 - Seller LT Firm Purchases from Outside 5 - Seller LT Firm Sales 6 – Seller Seasonal Planned Outages 7 - Seller Uncommitted Capacity Imports 8 – Average Peak Native Load in the Season 9 – Average Peak Native Load Attributable to Seller 10 – Average Peak Native Load Attributable to Non-Affiliates 11 – Study Area Reserve Requirement 12 – Study Area Reserve Requirement Attributable to Seller 13 – Study Area Reserve Requirement Attributable to Non-Affiliates 14 - Non-Affiliate Installed Capacity 15 - Non-Affiliate Remote Capacity 16 - Non-Affiliate LT Firm Purchases from Inside	Option List	N	INTEGER		Must provide a value for each study parameter, for each season. Link to ID for Study Parameter lookup table.

		17 - Non-Affiliate LT Firm Purchases from Outside 18 - Non-Affiliate LT Firm Sales 19 – Non-Affiliate Seasonal Planned Outages 20 - Non-Affiliate Uncommitted Capacity Imports 21 - Total Competing Supply 22 - Seller Uncommitted Capacity 23 – Total Seasonal Uncommitted Capacity 24 – Seller's Market Share 25 - Result (0 for Fail, 1 for Pass) 26 - Total Imports 27 - Seller Percent of SIL 28 - Non-Affiliate Percent of SIL 29 - SIL Value 30 - SIL Limit Exceeded (0 for No, 1 for Yes)					
12	study_parameter_value			N	NUMERIC (8:2)		Validations will check that the values provided are consistent.
13	study_parameter_reference	(Optional) Narrative description of the data source used to determine study parameter value.		Y	CHARACTER VARYING(MAX)		