MBR System Deployment Release Notes by Version Number

Release 1.44

• Introduced a select all checkbox when users are generating new asset appendices in the Asset Appendix Serial Numbers page
• Asset Appendix exports now correctly match all the information shown in both the Latest Asset Appendices and Asset Appendix Repository reports

Release 1.43

• Bug Fixes
  o Submitted data tables now properly display Reference IDs and Updated Record IDs after updating records
  o The Asset Appendix Serial Number page now displays all the companies for which a user is registered
• The Latest Asset Appendices report now includes “Last Updated by and date” to indicate when the last update was made to the report.
  o Ex: Last Updated: Friday, May 6, 2022 by Submission ID: (MBR Test Company1)
• Reports ➔ Asset Appendix Report ➔ Aligned the Export to CSV button with other export options
• Following a submission to the database, the system now displays links to the Submission Summary and Asset Appendix Repository reports
• Minor text updates

Release 1.42

• Bug Fixes
  o Addressed an issue causing some users to experience an error in the Long-Term PPA tab in the Asset Appendix.
  o The Entities to Gen Assets Explanatory notes field now displays in the Asset Appendix when relationship_type_fk=2 (Control).
  o The Self Limitations table no longer produces an error when record_type_cd=Deactivate.
  o The Generator Assets tab in the Asset Appendix should no longer display duplicates in newly-created Asset Appendices.
  o MSS and PSS reports now correctly formats numbers as numeric values for .csv exports.
  o The Asset Appendix Reports now displays the name of the agent who generated the Asset Appendix, if it was manually generated.
• Validation Rules
  o The mbr_self_limitations table should either contain a region_CD or a Balancing_Authority_cd, but not both. If both are submitted, the submission will be rejected. The Data Dictionary was updated to reflect this.
The mbr_category_status table no longer requires a **cat_status_effective_date** when **cat_status_in_region_fk** is 1, or 2. The Data Dictionary was updated to reflect this.

- Relaxed a rule erroneously preventing users from providing a **source_balancing_authority_cd** in the entities_to_ppas table when **ppa_type_fk** = 1 (Purchase).

### Release 1.41

- **Bug Fix:**
  - Asset appendices will now generate when an MBR_Authorization table for an MBR Seller is not in the database
- Modified text in the Acceptance email changing "Asset Appendix ID" to "Asset Appendix Serial Number"
- Modified error message when study parameters in the PSS or MSS tables are not in the proper sequence. Message now reads: "**Study Parameters provided are not in proper sequence**",
- Look Up Tables → Region table → removed Canada, Alaska, Ercot and Mexico from the table.
- Submitted Data → MBR Self Limitations must contain either a region_cd or a Balancing_Authority_cd. If neither exists, the filing is rejected.
- Submitted Data → Explanatory Notes fields width in all tables increased to allow longer text entries.
- Removed LEI and CID search fields from Asset Appendix Reports

### Release 1.40

- Modifications to the landing page table and text to eliminate the third line pertaining to Sellers and to enclose the Text box above the table as well as add a URL to the portal.
- Added verbiage on the landing page detailing the Paperwork Reduction Act.
- New **Asset Appendix Serial Numbers** menu displays under the Documents and Link Menu. This provides a **General AA Serial Numbers** button visible for users logged into the MBR System with the ability to generate new AA Serial Numbers and that are affiliated with the associated CID. The report information is added to the Asset Appendix Repository after the button is clicked and an email is sent to the user that the “request has been received and will be processed”.
- Look Up Tables → Region → Removing Alaska and Canada from the Regions Table.
- MBR Administrators → Manage Lookup Tables → BAA, Administrators are able to select a region and County from the Add new BAA Screen.
- Modification to Reports → Assett Appendix → PPA Tab to add **Entity** Column between the **Filing Entity** and **Counterparty** columns.
- Reports → Asset Appendix Report → Generation Assets → Data Control Transfer field only display relationship start date.

### Release 1.39
Contains updates to the XML Schema

- Submitted Data → Validation for PSS. Sellers can use a different parameter for Western EIM, for Study_Parameter ID=19 (Wholesale Load) and Study Parameter ID=20 (Uncommitted Supply). Parameter 20 is based on (ID=15)-(ID=19).
- MBR Reports → Asset Appendix → if the Docket cancellation_effective_date<=Today then those Dockets are excluded from populating in the asset appendix.
- Submitted Data → Updated text boxes to display as Entities to PPAs, Indicative PSS and Indicative MSS.
- Submitted Data → Entites to PPA adj_rating_options_fk is not required when supply_type_fk is 2 ; amount_adjusted is not required when supply_type= 2
- MBR Reports → Asset Appendix provides ability to search by GID and LEI as a reportable company.
- GID Creation screen allows Special characters to be used in the Legal Entity field for address names.
- MBR Reports → Download General Search → GID download list includes all individual names.
- MBR Administration → Region and Country is no longer required when adding a new record in the the BAA Table.
- Lookup Tables → Region list does not include Alaska, Canada, Ercot or Mexico.

Release 1.38

- Validation rules changes:
  - indicative_pss table: parameter 24 (Seller's Percent of SIL) now checks to see if it equals parameter 6 (Seller Uncommitted Capacity Imports) divided by parameter 23 (Total Imports)
  - entities_to_ppas table:
    - Now allows Amount equal to zero
    - Amount_Adjusted is required when Adj_Ratings_Options_FK not null or Adj_Ratings_Options_FK is required when Amount_Adjusted is not null (now matches the logic described in the data dictionary)
- Asset Appendix Repository:
  - Updated Search to allow search by LEI and GID
  - Updated to include records when Reportable Entity is also the Reporting Entity
  - No longer displays erroneous, duplicate records
- Added two columns to General Search: Other Legal Name and LEI Upload Date. Other Legal Name is often used as an English translation when an entity’s primary legal name is not in English. The primary source of LEI data has further information on entities, if needed.
- Addressed data display performance issues in the PPA and Other Affiliation pages
- Updated XSD to change maxOccurs season value to 4

Release 1.37

*Contains updates to the XML Schema – submissions to the database must use the latest XML structure*
• **XML Updates** for the `entities_to_entities` and `indicative_mss` tables. The new fields in the `entity_to_entities` table are used in the auto-generation of the asset appendices. The Data Dictionary provides further details.
  - Three data fields were added to the `entities_to_entities` table:
    - `Blanket_Auth_Docket_Number`
    - `Utility_ID_Type_CD`
    - `Utility_ID`
  - Parameters 27 and 28, Seller and non-affiliate percentages of SIL, were commented out of the `indicative_mss` table. These fields should no longer be submitted in the XML. The MSS Reports in the system autocalculate the values based on the data submitted and no longer need to be reported. Parameters 29 and 30 remain numbered as such.

• The Latest Asset Appendices report now provides the ability to search by GID and LEI affiliations.

• When creating a GID
  - An error message now displays when attempting to input an Entity Name that exceeds the 50 character limit.
  - Users reported the address validations were too restrictive and prevented GID creations with legitimate addresses. The validations were loosened to no longer require an address. Adding an address is preferred, and will be validated if an address is provided, but the system will not generate an error if one is not provided.

• In the `Entities_to_PPAs` table, when the `amount_adjusted` field is blank, the `adj_rating_option` is now nullable.

• In the `Entities_to_GenAssets` table, when `relationship_type_fk=1` (Ownership), the `amount` field can now be zero without generating an error.

• Users reported that LEI searches in the General Search page returned non-english characters in the Name field. The system is passing through these characters directly from the primary source of the LEI Database Download.
  - In the instances when the Legal Name in the LEI Database is non-english, it often includes an english translation. This data is now included in the General Search page under “Other Legal Name” and
  - To clarify when LEI data was added to the database, “LEI Upload Date” was also added to the search results.
  - If any ambiguity persists, users are encouraged to directly consult the LEI Database as a primary source of LEI information.

• Bug fixes when exporting asset appendices

**Release 1.36**

• LEI data has been updated to reflect latest entity information
• Users can now download all all CID, GID and LEI data in zipped format, under Download General Search in the MBR Reports page
• Asset Appendix report updated to accurately reflect assets submitted for non-mbr affiliates
• Welcome page updated to reflect latest or on the data collection changes relating to the Entity to Entity table structure
Release 1.35

• If Submitted Data → Entities to Gen Assets → Relationship Type FK column is set to 1, then the amount column can contain $0.00.

Release 1.34

• MBR Reports → Asset Appendix Repository has new columns for Plantcode Generator ID and Unit code in the Asset Appendix Repository.
• MBR Pre-Production Database/Data Cleanup. This includes the deletion of all user submitted MBR table data → This does NOT include any MBR Identification (CID, LEI or GiD) and Generation Asset information.
• Asset Appendices report:
  o Date control transferred is populating relationship_start_date.
  o Cap rating methodology is populating adj_rating_options_fk.

Release 1.33

• New record is created for the lkp_EIA Table when XML filing includes plant code value, eid_generator_id, and eia_unit_code are null the system will create a new record in lkp_EIA table.
• If the plant code, eia_generator_id, and eia_unit_code contains data the system will validate per rules.
• The system now validates the submitted XML Zipped Files.
• Updated error messages for XML filings containing; entities_to_ppas, entities_to_genassets, entities_to_entities, and entities_to_vertical_assets when the filing contains an inactive GiD.
• New validation for Submitted Data in the Entities_to_PPA Table for the PPA_Agreement_ID column which adds a unique key to PPA_Agreement_ID to help check for duplicate PPAs.

Release 1.32

• Updated security scan to allow MBR to load in Edge and Chrome browsers.
Release 1.31

**Contains updates to XML**

- MBR Landing page: fixed display issues of text that was cut off from the top right and the gap between Username and Logout buttons.
- FERC main website now opens in the same tab when clicking the FERC emblem.
- Updated missing Page Headers on the Lookup Tables page and the Submitted Data page.
- Updated the Export CSV file name and tab name.
- General search:
  - Removed extra column header in the Export file
  - Correctly matched the Export file column order with the UI (CSV/XML/Json)
  - Updated incorrect message; GID or GID. Full Name are Required
  - Updated Error message for an invalid search
- Gen Assets search:
  - Added an Error message for No record found
  - Added “Inactive Date” column
- EIA:
  - “Nameplate Capacity MW” column now displays correct data
  - EIA search: Added Error message for No record found
  - Operating Year: search results page- pagination is now working
  - Operating Month: search results page- pagination is now working
  - “Unit Code” column data is updated
- Lookup Table:
  - BBA: Export file- Removed incorrect column header and extra column
  - Region: Export file- Updated column header
- Submitted Data:
  - Updated Export file column headers, removed extra columns, matched order of columns to UI, and correctly linked data to appropriate columns for:
    - MBR Authorization
    - MBR Category status
    - MBR Mitigations
    - MBR Self Limitations
    - MBR Operating Reserves
    - Entities to Entities
    - E2Gen A
    - E2Ppas
    - E2VA
    - PSS
    - MSS
  - Added Error message for No record found to:
    - MBR Authorization
    - MBR Category Status
- MBR Mitigations
- MBR Self Limitations
- MBR Operating Reserves
- Entities to Entities
- E2Gen A
- E2Ppas
- E2VA
- PSS
- MSS

- Create New GID: Correct error message now displays when you entering an Invalid state code (more than five digits)

- Reports:
  - AA Repository: Export- Removed extra columns
  - Company Dashboard: Added pop up window
  - MBR Affiliation List: Created additional space on filtered items
  - MBR Reports: FERC Asset Single Submission Summary- Updated Submission status=> N/A

- MBR Administration: Updated pagination to function correctly for:
  - Look up files- BBA
  - E2E
  - E 2 GA
  - Error messages list

- Submission XML:
  - MBR Authorization- Updated XSD to reject when user enters more than 15 characters for <authorization_docket_number>
  - MBR Authorization: “Cancellation effective date” is now system validated and must be greater than or equal to the authorization effective date.
  - MBR Self Limitation: Updated effective_end_date to equal effective_date
  - E2E: System no longer allows an Entities to Entities relationship with an inactive GID
  - E 2 Gen Assets: Updated status upon validation to pass or reject; no longer displays auto processing for <cap_rating_adjusted> (Submission ID# 393406, 393408, 393411 and 393412)
  - E2 Ppas:
    - Updated status upon validation to pass or reject; issue caused by the <cap_rating_adjusted> validation above (Submission ID# 393417, 393418)
    - Updated “schedule end date” value to be ≥ “start_date” instead of only > date (Submission ID# 393426)
    - “Schedule_end_date” and “Actual_end_date” validation is no longer per Data Dictionary
    - Updated system validation for “Amount_adjusted” and now must be less than the nameplate capacity of the corresponding generator
  - Updated system validation for Ppas “source_balancing_authority_hub_cd” when Ppa type=2 and source balancing authority cd= hub
  - Vertical Asset: Updated error message to be greater or equal to
  - Pss: Updated system validation to ensure <pss_study_reference_fk> matches with an existing entry from the “IndicativePss” submitted data table
- Mss: Updated XSD to validate pass or reject status instead of Auto processing when inputing invalid <season Id> (Submission ID# 393459)
- Mss: Updated system validation to ensure <mss_study_reference_fk> matches with an existing entry from Mss submitted table

**Release 1.30**

- **BETA TESTING** [in mbr_authorizations table only]: Introduced functionality to “Deactivate” previously-submitted, active records
  - **Intended Purpose:**
    - If a user accidentally submits a record for a table, the user will now be able to inactivate / remove / delete that specific record. For backward traceability, the record will remain in the database with an indication of the Submission which Deactivated it.
  - **Theoretical Example:**
    - A filer accidentally submits a second authorization into the database and realizes this was a mistake. Previously, Updating that record would necessitate submitting all the data in the table and would retain an active association to that record. With Deactivate, the filer submits an mbr_authorizations table with a record type of “Deactivate” and the Reference ID to that record to inactivate the association with that record.
    - Note: Neither Inactive, nor Active records with relationship end dates in the past, are used to populate asset appendices.
  - This is not intended to be used as the primary mechanism for changing records – Update should always be used when modifying details of previously-submitted records.
  - **Steps to Deactivate:**
    - Only two fields should be submitted when Deactivating a record
      1) Record_type_cd = “Deactivate”
      2) Reference_id = [id of the record to-be Deactivated]

- **Added API parameter values for the MSS and PSS.record_type_cd**
- **Updated various MBR Web API items:**
  - Provided a sample SOAP response to find missing parameters
  - **Updated API endpoints:**
    - LT PPA Purchase & Sale
    - Vertical Assets
    - Pivotal Supplier Screen
    - Market Share Screen
  - Updated Data Dictionary indicative_mss to include row 5, study_amended_reference_fk
  - When MSS submissions occur, a second validation email will be sent that contains the validation. Previously, only a first email was sent and data was not successfully posting to MBR which could also not be retrieved when searched.
  - Updated missing EIA 2019 data on the MBR portal.
• Enhanced XSD for MSS and PSS:
  o Implemented validations to prevent the submission of either duplicate study parameters (or seasons within the same parameter). Validations also prevent the submission of either more or fewer parameters than expected.

Release 1.29

• Updated a rule for triggering the creation of a new Asset Appendix. Submissions containing `entities_to_vertical_assets` tables without any of the other “`entities_to_`” tables now result in a new AA.
• Implemented new rules for rounding calculations. The system now accommodates whole numbers, and rounded decimals to the tenths and hundredths place. For example a system calculation of 4.1 can be accepted as 4, 4.1, or 4.10; 4.11 as 4.1 or 4.11; or 4.111 as 4.11.
• Loosened restrictions in MSS/PSS calculations:
  o Values less than ten no longer require leading zeroes.
  o System Calculations and associated validations now prevent negative numbers in calculations, and instead will necessitate zeroes.
• Updated various MBR Web API Downloads:
  o MSS/PSS: the `Study_Parameter_ID` replaces the `study_param` attribute
  o MSS/PSS: data return is now structured as arrays by `Study_Parameter_ID` and `season_fk` (Season for MSS only)
  o `entities_to_PPAs`: added `scheduled_end_date`
  o `entities_to_vertical_assets`: added `relationship_start_date` and `relationship_end_date`
• Updated the Latest Asset Appendices landing page to contain an example row of data when clicking through the various tabs, with a blank search
• Fixed an Auto Processing bug when an `entity_ID_type_CD` didn’t match the type of `entity_ID` submitted (ex: `entity_ID`: CXXXXXX  `entity_ID_type_CD`: LEI). The system now returns an error.

Release 1.28

• MBR Reports → Asset Appendix (AA) updated in the Draft Reports Table to “Asset Appendix Repository”.
• MBR Reports → MBR users now have a unified interface for reporting and can download MSS reports by company name as well as click “Ultimate Upstream Affiliate” for an AA pop-up window.
• WCF/API correctly navigates to uploaded MBR XML file.
Release 1.27

**Contains major update to Asset Appendix functionality**

- The Asset Appendix Repository is a new functionality of the system that creates a history of generated Asset Appendices (Gen Assets, Vertical Assets, and PPAs)
  - The history of these Asset Appendices is tracked and referenceable by the “Asset Appendix Serial Number” on the Repository report (the furthest left column)
    - For background on the Asset Appendix Serial Number, please see paragraphs 16, 56, and 315 of Order 860
  - The “Get Report” link on the far right of the page links to that specific Asset Appendix, showing metadata of the report at the top of the page
  - Anytime a new Asset Appendix is generated by a successful submitting, a Serial Number is sent in the Acceptance email and link to the report of that
  - A new Asset Appendix is generated for an entity and its affiliates when any of the following tables are submitted:
    - entities_to_entities
    - entities_to_genassets
    - entities_to_vertical_assets
    - entities_to_ppas
- Updated XML Submission Page language, in addition to the blank XML example, an XML example was added with sample data. This new file includes examples of filing both New and Updated data for every table.
- Redline and Excel versions of the Data Dictionary were uploaded
**Release 1.26**

**Both the Data Dictionary, and the XSD have been updated with this release**

- An updated Data Dictionary was published under Documents and Links.
  - [Redline and Excel versions will be published this week.]
- The XSD now requires each season when submitting MSS tables. Related Auto Processing issues were resolved by adding these attributes to the XML.
- The validation rules now limit MBR data updates to the filing CID for which the filer is an agent in FERC Online Registration.

**Release 1.25**

- MBR Reports → Updated Asset Appendix - Vertical Asset table so that the “Filing Entity and its Energy Affiliates” column is visible and pulls data from the correct table.
- Renamed column to “Capacity Rating Methodology Used:(N)ameplate, (S)easonal, 5-yr(U)nit, 5-yr (E)IA, (A)lternative”.
- Data now correctly displays in the "Capacity Rating Methodology Used: (N)ameplate, (S)easonal, 5-yr(U)nit, 5-yr (E)IA, (A)lternative" column.
- MBR Reports → Asset Appendix – Capacity Rating Used in Filing (MW) column now pulls data from the correct table.
- Update to XML file – PSS Only – for validation rules and pre-validation that will prevent submission of duplicated tables within the same file.
- Added placeholder link for future Excel format of Data Dictionary.
- Users now able to input International zip codes.
- MBR UI data format update for MSS/GIS/PSS - Commas are now included in all numeric fields.
- Reports/Views/UI → AA Connection and Field Updates - AA Gen/PPA/vertical assets all affected. Affiliation views corrected for CID/GID/LEI data.
- Search → End to end queries are now able to be conducted in relationship end and inactive dates searches.
- MBR Reports → GIS Report for PSS Screens, where no screen data exists, now display as blank instead of auto-populating with zeros.
- MBR Reports → GIS Report now displays PSS-Net Uncommitted Supply data.
- MBR Reports → GIS Report now displays MSS-Market Share Results (%).
- Blank spaces, before and after all submitted data, will now be removed from the XML source prior to database entry.
- MBR Reports → Updated Asset Appendix - Affiliations through GID/LEI now correctly populate assets/PPAs.
Release 1.24

- MBR Reports → MBR Affiliations list is viewable and provides Search and Export to CSV.
- Adding EIA business validation rules to add the <eia_generator_id> and <eia_unit_code> to the validation for tables entities_to_genassets and entities_to_ppas.
- Validation added that if a record does not exist in the MBR system, the same XML user is not allowed to submit the same MSS Submission within the XML.
- MBR Reports → Asset Appendix Report now contain search fields for LEI and GID.

Release 1.23

- MBR Reports → FERC Asset Single Submission Summary link opens to the Single Submission Summary Report and provides search and export capability.
- MBR Report → Submission Summary Report displays Submission Summary table in descending Order to ensure latest submission displays at the top of the list.
- MBR Reports → Submission Summary Report modified to remove 6 columns from the report located on the far right to improve data display.
- Log In screen now displays the MBR Order Schedule initially until Log In.
- Submit Data → Indicative PSS and Indicative MSS reports now display the correct report under the Action column field for the selected company record.
- MBR Reports → MSS and PSS Reports → Report Link now displays the Sil Limit Exceeded Column and the Result column data as one digit, instead of decimal places, (0, vs. 0.00)
- MBR Reports → GIS Report now displays Data for Fall as well as Winter, Spring and Summer data.
- Update to the validation rules to ensure that All MBR XML Submission data is only submitted or updated by the original CID or submitting entities who are authorized to file on behalf of the CID.
- Update to the validation rules to ensure that duplicated data is not submitted through the XML filing that already exists in the database. An error message will indicate that duplicate data has been submitted.

Release 1.22
• MBR Reports ➔ Global Information Report (GIS) is now available in the User Interface. This report provides a regional summary of Market Power Studies and allows the user to analyze the power studies for MSS/PSS for a selected region and study year.

• MBR Reports ➔ Asset Appendices ➔ Long-Term PPA include column name updates; seller name changed to Counterparty Name, Unit or system changed to Type of PPA. Also, the organization name under the “Counterparty Name” should always (Sale or Purchase) refer to the organization in the “counterparty_id” database column and the values under the “Filing Entity and its Energy Affiliates” should always (Sale or Purchase) refer to the organization in the “entity_cid_cd” database column (or affiliates related to this organization)

Release 1.21

• MBR Reports ➔ Submission Summary Link opens to the Submission Summary Report
• Updates to the XML file that validates in the entities_to_PPA table the field should be null when supply_type_fk is not 1, but when supply_type_fk=1, the entities_to_PPA table is not nullable.

Release 1.20

• Update to the MBR Reports ➔ Asset Appendices: users can now export the 3 Asset Appendix tabs (Generation, PPAs, and Vertical) in CSV format to a ZIP file.

• The lkp_supply_type lookup table is now downloadable on the MBR Web API Help Page.

• Submissions to the entities_to_entities table no longer accepts a reportable_entity_ID that is the same as the CID of the reporting_entity_cid established in the FilingInformation table.
• Submissions to the entities_to_entities table now validates that the relationship_start_date value should not be null when the data is submitted in the reportable_entity_ID_type_CD and reportable_entity_ID fields.

Release 1.19

• Update to the XML file for validations that will prevent duplicated data based on table rules in the file.

• Search ➔ Submitted Data tables currently display all company names when an CSV Export is performed.

Release 1.18

• Critical Update: Modification to the XML structure to match the order of the tables and attributes of the data dictionary. As such, subsequent submissions must conform to the latest XML.

• File submission errors now specify the attribute name associated with the error.

• Further refinements to the validation rules and associate notifications.

Release 1.17

• XML code structure change to modify EIA entities_to_genassets and entities_to_ppas.
• Modification to the sample XML file to improve usability when opening the file as a new tab. This allows easier editing without modifying the original structure of the XML.
• Error messages for MSS and PSS can be managed through the Admin Module.
• Asset Appendix screen provides a search functionality for Organization and CID name.
• Admin Module ➔ Manage GID Records ➔ Name Search Parameter 2 field allows an additional name to be added to a company association.
• Admin Module ➔ Manage GID Records ➔ GID Relationship Group Search field for group numbers.
• Admin Module ➔ Manage GID Records modification of columns for better viewing.

Release 1.16
• Admin staff can now select any email template from the user interface to edit and save changes to the email.
• Look up Tables and MBR Submitted tables all list active and inactive dates for each item on every table.
• MBR Reports → Asset Appendix Report → displays Generation Assets Report on screen as a default display.
• MBR Reports → Asset Appendix Report → replaced Transmission & Natural Gas sub menu with Vertical Assets sub menu.

Release 1.15

• MBR Administrative menu now available on the User Interface.
• MBR Administrative screen allows upload and download options for Release Notes and Data Dictionary.
• MBR Administrative screen provides ability to modify Look-up tables data and review audit history.
• MBR Administrator → Manage GID Records link, now provides the following features on the GID Administration screen:
  o Display ability to search GID records by GID name
  o Ability to initiate LINK function
  o Ability to select a record as lead
  o Ability to select from a list of records all records to be included in the relationship
  o Ability to indicate relationship/Group ID for all records who are a member of a relationship
  o Ability to indicate the relationship/Group Leader

Release 1.14

• MBR Data Tables → Expanded search function to include Submission FK data field.
• Lookup Tables → Addition of three tables: lkp_mss_indicative_study_param, lkp_pss_indicative_study_param and lkp_supply_type.
• Lookup Tables → Data cleanup Active Date fields default to 1/1/2020 and Inactive dates default set to null.
• MBR Authorization → Internal users only - MBR Administration screen security authorization implemented per MBR Admin group membership.
• Documents and Links → Addition of WCF Service Link.
• MBR XML update to rename the PK column from vertical_assets_id to entities_to_vertical_assets_id.
Release 1.13

- **Major revision to the Data Dictionary** – every table affected – Redline and Standard versions are available in [Documents and Links](#)
- [MBR Reports link](#) from the User Interface screen link to the new MBR reports screen
- MBR Reports section of the website is the primary source for finding Reports and future Data Views
- Reports for MSS and PSS are available online and as CSV downloads
- Every Report contains a unique URL to the online report format
- Added the Action column in the MSS and PSS reports in the Submitted Data section of the website

Release 1.12

- Filing period information is no longer included in the validation and acceptance emails sent to the filer.
- Search → Gen Assets will display a validation error if there is no End Date in the Active Date field when there is Start Date in the Active Date field
- Placeholders are no longer displayed in the General Search, Gen Asset and the EIA data fields.
- Search → General now provides export options for XML, CSV, and JSON
- Search → General screen modifications for the Search, Clear and Print button to align with the XML, CSV, and JSON export buttons
- Search → Look Up Tables; BAA, Category Status in Region, Entity Type, PPA Type, Record Type, Region, Relationship Type, Scenario Type, Seasons, Study Type and Vertical Asset Type now have Active Dates as 1/1/2020
- Search → EIA and Gen Asset now allow partial search in the name field (3 characters minimum)
- Implemented XML data submittal validation functionality for the MSS Indicative Screen table in accordance to the latest published Data Dictionary and Data Validation rules document

Release 1.11

- Following the new ferc.gov update, **XML/XSD Namespace was updated to reflect MBR server vs. FERC.GOV location.** [Sample files for all XML and XSD files have been updated accordingly](#).
- The [Latest Table Updates](#) table (pictured above) replaces the prior visual. The goal is to show the last release in which each specific table was updated. If you would like to, please submit feedback on this visual to MBRDatabase@ferc.gov
- The validation rules for MSS/PSS table submissions were relaxed to allow multiple MSS / PSS submissions by filer
- Search → Submitted Data tables now provide a search filter radio button for Active, Inactive, and All Records
- Search → Gen Assets screen now provides capabilities to search Gen Asset data "Search" the same as (CID/LEI/GID) screen with all functionalities (e.g. print and export)
- Search → EIA Screen now provides capability to search an export EIA data
- All searches now display 50 records on the screen per page
- The BAA and HUB lookup tables were updated to properly show the Codes of the locations, for use in submitting data
- Remove the MBRSubmissionType and DateofReport element in the FilingInformation Table
• Documents and Links → FERC.GOV URL updates.
• Enhanced the validation for entities_to_ppas: added/modify the rules for the columns(alt_methodology_used, source_balancing_authority_cd, source_balancing_authority_hub_cd, sink_balancing_authority_cd, sink_balancing_authority_hub_cd) to match the data dictionary

**Release 1.10**

• Search → Look Up Tables and Submitted Data now provide export functions for CSV and JSON format in addition to XML.
• Search → Gen Assets → now provide export functions for CSV and JSON format in addition to XML.
• Active and Inactive date columns are now visible on the right side of Search → Submitted Data tables.
• Search → Submitted Data → Searching will display validation message of “End range is missing” when there is no End Date in the End Range field.
• MBR Tables (e.g. 13 primary tables) now allow basic search and downloading functions as well as sorting, exporting and filter criteria by data type.
• Update of pparef_ID to entity_id and pparef_ID_type_CD to ppared_id_type for validation.
• Search → Submitted Data → MBR Tables now provide the ability to see data results, sort data and export XML data on the screen.
• New MBR reports available in the Reports portal for Filing Confirmation and Analytics.

**Release 1.9**

• Expansion of search and export capability of 5 of the 11 MBR Submitted Data tables (XML Format)
• Export function implemented for all MBR Lookup Tables (XML Format)
• Validation enhancement on study_parameter_value for recordtype=update, values to be in “1-9504” range.
• In the search → Submitted Data → MBR Lookup tables now all contain data and are exportable.

**Release 1.8**

• The MBR Authorization Screen record type field now provides an option to select a Record type of 1. New or 2. Update, from the drop-down box and provides an export button to export the record to an XML schema format
• Combined the Document Links and Useful Links screens into one page
• Updated the search tree layout to simplify searches in the Lookup Tables and Submitted Data
• Acceptance email for a GiD XML submission now contains the newly created GiD number(s)
• Acceptance email for a FERC Asset XML submission, now contains newly created FERC Asset ID number(s)
• Introduced the Web API page, currently available for Lookup Table data.
• Improved indexing capabilities with web API on the Search interface Look-up Table screen for the Balancing Authority table
• New report in the reports portal to display generation asset submission information
• New report in the reports portal to display GID submission summary information
• Company Name column was added to the MBR Authorization Table
• In the Search → Submitted Data screen→ entities_to_genassets and entities_to_ppa tables, added gen_asset_type_fk column and removed gen_asset_id column from entities_to_genassets table
• Updated the XML Submission file to validate all tables data when the record_type_cd is null to avoid errors in the filing

**Release 1.7**

• Correction to XML/XSD validation to allow submission of multiple records for given MRB Submission table.
• Modification to MBR lookup tables and removal of redundant table/data such as the replacement of Asset Table with Vertical Asset table.
• Modification of LEI search in the General Search screen to require a minimum of 5 characters to help facilitate more responsive search results.
• Modification MBR menu modification - Search menu now displays additional sub menus on the user interface:
  o General opens the general search
  o General Assets-Lookup Table displays a list of look-up tables selectable from the menu
  o General Assets-Submission Data displays a list of submission data selectable from the menu
• Initial implementation of search and export functionality for MBR Submission’s MBR Authorization table to allow users the ability to search and filter data by table data and export result set to XML format.
• Search menu → Submission Data → MBR Authorization screen now provides entry fields to enter the Start and End Range for dates, number fields and drop-down values for records types.
• Reports Menu in the interface has been removed and data now displays under the General Menu, and sub-menus.
• Expansion of Generation Asset submission recording to now log submitters of Gen_Asset identification to allow reporting of Gen Asset information by submitter.

**Release 1.6**

• Updates to the following lookup tables for BAA, BAA_Region, Cat_Status_in_Region, Region, Relationship_Type in support of validation processes.
• Look-up Table drop down menu list in the Reports screen updated to reflect lookup table changes.
• Company Registration, users should be able to assign and remove delegated agents for the MBR form submissions. This feature is visible in the Company Registration application only.
• Minor updates to user interface (e.g. release number display format)
Release 1.5

- Added New entries in the Generation Assets and XML schema files for FERCASSET or EIA to the `entities_to_genassets` and `entities_to_ppas` tables, for validation and database updates.
- Updated to general assets XML file for operating month validated as “1-12” and operating year validated as “1890-2050”.
- Updated Generation Assets XML file with country information for United States, Canada or Mexico for validation.
- Expanded email notification for XML file submissions to include emails for receipt, validation, and acceptance/rejection. Validation emails contain a link to the XML file that confirm either an acceptance of the filing or a rejection (failed) message. The rejection notification now contains the error(s) that caused the rejection.

Release 1.4

- Add new record types to the XML Schema and database for the following items: `entities_to_genassets, mbr_operating_reserves, mbr_authorizations, entities_to_vertical_assets, entities_to_entities, indicative_pss, indicative_mss`.
- Update the following MBR Tables in support of MBR XML submission process: indicative_pss, and indicative_mss for validation and processing.

Release 1.3

- Updated the following MBR tables in support of MBR XML submission process: `entities_to_vertical_assets, mbr_operating_reserves, indicative_mss`.
- Update to MBR support documents to include matching version numbers (e.g. GID, Generation Assets, MBR XML and MBR XSD).
- Updated MBR XML submission tables in accordance with data dictionary updates. This includes Record Type for filers to identify records as New or Update.
- Updated FERC_GEN_ASSET country lookup table to include all states for USA and all province and territories linked to Mexico and Canada.
- Addressed security vulnerabilities remediation per security scan reports.

Release 1.2

- Added the following MBR tables in support of MBR XML submission process: `entities_to_vertical_assets, mbr_operating_reserves, indicative_mss`.
- Update to MBR support documents to include matching version numbers (e.g. GID, Generation Assets, MBR XML and MBR XSD).
- Updated MBR XML submission tables in accordance with data dictionary updates. This includes Record Type for filers to identify records as New or Update.
- Addressed security vulnerabilities remediation per security scan reports.

Release 1.1

- Added the following MBR tables in support of MBR XML submission process: `entities_to_genassets, entities_to_ppas, mbr_self_limitations`
• Clickable page number grids now display at the bottom of the search screen to advance to subsequent pages.
• Footer contact and release number information now displays at the bottom of every screen in the MBR system.
• Modifications have been made to validate the following tables: mbr_authorizations, mbr_category_status, mbr_mitigations and entities_to_entities.
• The search screen now allows individual selected and GID first and last name entered as a search option.
• The text for the radio box; “Are you requesting a GID for an individual” was modified and is located at the top of the create new GID screen.
• In the search page, there is now a clear button located next to the search button to clear the fields for another search.
• In the search option, the search input data is no longer case sensitive.
• In the search results the display of rows is increased to 50.
• Search results print button now prints all rows in the search results.
• All countries for companies throughout the world are now listed on the GID Screen.
• Search, reports and FERC on-line links are now available to the public without logging in or registering.
• In the Create New Generation assets screen, the year field will allow dates entered only between 1890 and 2050.
• IT-support center@ferc.gov has been replaced by MBRDatabase@ferc.gov in the banner for support contact.
• GID request email now displays, Entity name instead of Organization name.
• FERC asset email now displays, Assist ID instead of plant code.
• Registration email now displays, “Thank you for using the GID Service”