

New Views

- SeasonalShutdown_Fatalities
- SeasonalShutdownString_PercentageOfMonth

New Functions

- New scalar-valued function **GetNumDaysInMonth**; returns the number of days in a month. Called by view **SeasonalShutdownString_PercentageOfMonth**.
- New scalar-valued function **GetCalculatedMidpointDeathDate**; calculates the midpoint death date, accounting for the "anomalous" value of -99. Assigns the **FatalityDiscoveryDate** as the midpoint death date for these records. Called by view **AllFatalities**.

New Data Dictionaries

- *DD_SeasonalShutdown.pdf*

Changes to Tables

- Change to view **AllFatalities**; now calls **GetCalculatedMidpointDeathDate** rather than calculating it directly in the SQL query.

Major revisions to tables completed since prior releases

- In **Fatalities**, fields **AddParts**, **Incidental**, and **Injured** moved to the top of the **Fatalities** table.
- In **Fatalities**, new field **FeatherSpot** added.
- All **AddParts** records moved from **Fatalities** table to **FatalitiesAdditionalParts** table.

Changes to Tables

- **Fatalities**
 - **CalculatedDaysDead** values updated for October fatalities. 66 records updated automatically using function **KBBackDateCalc**; 1 record (**RecordID** 5774) updated with custom value).
 - All NULL values changed to 'False' for fields **AddParts**, **Incidental**, and **Injured**. Changed **Allow Nulls** to **Do Not Allow Nulls** for these fields
 - Moved **FatalityNumber** X03-23 from **Fatalities** table to **FatalitiesAdditionalParts** table, changed **AddParts** to 'True,' and documented change in **Notes** field.

Changes to Functions

- **GetCalculatedMidpointDeathDate**: added test for **CalculatedDaysDead** = -99 (a value assigned by the function **KBBackDateCalc** to indicate that a fatality is older than 90 days). In the function **GetCalculatedMidpointDeathDate**, if **CalculatedDaysDead** = -99, the value returned for the **CalculatedMidpointDeathDate** is the **FatalityDiscoveryDate**.

Changes to Tables

- In table **Fatalities**,
 - Changed field **Source** to field **Study**.
 - In new field **Study**, in field **Study**, changed value 'Baseline' to value 'BL.'
 - Changed String for FatalityNumber 20091019-01 from 347.99 to 374.99 based on Shawn Smallwood's email of 11/30/2009.
 - Updated **records** to correct mismatched **FatalityDiscoveryDate** and **dateSearched** dates, **Incidental** and **Injured** fields, and incorrect **TurbineLabel** and **Strings**, data due to mismatches between **dateSearched** and **FatalityDiscoveryDate**.
- Created new table **Studies** to hold data describing the studies such as Baseline, Current Study, etc.
- In table **Searches**,
 - In field **Study**, changed value 'DL' to value 'CS.'
 - Updated **records** to correct mismatched **dateSearched** and **FatalityDiscoveryDate** dates.
 - Imported October and November search data to Searched db.
- In table **Species**,
 - Updated **AvianGroup**, and **Size**, and **Notes** fields.
- In table **MonitoringYears**, changed field **Month** to **DecimalMonth**. Added new field **Month** and populated it with a string with the value of the substring of DecimalMonth, of the last two positions in the string.
- In table **OpGroups**,
 - Standardized values for **Company**, **ProjectSite** (was called Entity), and **TurbineType** (was called Model) using values provided by NextEra in the new Turbines table and in the APWRA Turbine Count table (which shows installed capacity of the Altamont WRA).
 - Deleted old "join" columns created for joining with Turbines_AllStudies table.
 - Split **OperatingGroup** OP-27 into OP-27a and OP-27b because it contains both Danwin and Nordtank turbines.

- In table **OpGroupTurbinesPerYear**,
 - Split **OperatingGroup** OP-27 into OP-27a and OP-27b because it contains both Danwin and Nordtank turbines.
- In table **Turbines_AllStudies**,
 - Imported new turbines data and replaced old Turbines_AllStudies table with new **Turbines_AllStudies** table.

Changes to Views

- Changed view **SearchInterval** so that it mimics views that use **MonitoringYears** in its display of monitoring years etc.
- Created new views
 - **Strings_FromTurbines_AllStudies.**
 - **Strings_TurbineLabelsInStrings_FromTurbines_AllStudies.**
 - **SeasonalShutdownString_PercentageOfMonth_WithYearMonth.**
 - **SeasonalShutdown_YearMonths.**
- Changed views
 - **OpGroup_TurbineNumberYear.**
 - **OpGroupInstalledCap_OpCapacityString.**
 - **OpGroups_Strings.**
 - **OpCapProducedByOpMinutes_OpGroup.**
 - **SeasonalShutdownString_PercentageOfMonth** so that it no longer calculates dates. That instead is done in a subsequent view, **SeasonalShutdownString_PercentageOfMonth_WithYearMonth.**
 - Changed view **SeasonalShutdown_Fatalities** so that it joins with **SeasonalShutdownString_PercentageOfMonth_WithYearMonth** rather than with **SeasonalShutdownString_PercentageOfMonth.**
 - Renamed view to **String_Year_YearMonth** from **String_Year_YearMo** and changed the fields that it includes.
 - Deleted view **ShutdownYearMonths.**

Changes to Functions

- Changed value in scalar function **DateToStudyPeriod** from 'Study' to 'Current Study.'
- Created new functions **YearToStudyYear** and **YearToMonitoringYear** called by view **SearchInterval**.
- Created new scalar-valued functions **GetPredominantTurbineType** and **GetPredominantTurbineRating_kW** which takes a String as the single parameter and returns the TurbineType which occurs the most in that string. This function could be called from several different views, but it is currently used by **Strings_FromTurbines_AllStudies**.
- Created new functions **YearAndMonth_To_YearMonth** and **MonthToSeason**, called by **SeasonalShutdownString_PercentageOfMonth_WithYearMonth**.