

The table below describes the fields that appear in the **SeasonalShutdown** table of the ALTAMONTPASS database. The data in the SeasonalShutdown table come from several data sources: field data collection to report on scheduled shutdowns by the MTeam, reports on anomalous shutdowns from AES SeaWest for the Altech I, Venture Winds, Taxvest (AC/GB), Viking '83, and Santa Clara project sites, from Babcock & Brown for the Tres Vaqueros project site, and from NextEra for the Diablo project site.

There were two shutdown experiments during the 2005–2009 timeframe, the **Crossover** experiment in winter periods for 2005–2006 and 2006–2007, and the **Universal Phased** experiment in winter periods for 2007–2008 and 2008–2009.

In the Crossover experiment the APWRA was divided in half into the North and South districts. For the first half of each winter period the North area was shut down, leaving the South area operational; halfway through the winter periods this was switched, shutting down the South area and reactivating the North area. All turbines were either shut down or reactivated together on the same day.

In the Universal Phased experiment the APWRA was divided into two groups, monitored turbines and non-monitored turbines. For each winter period, all non-monitored turbines were shut down or reactivated together on the same day. Monitored turbines were phased into shutdown status at the beginning of the shutdown period as they were searched by the monitoring team. Monitored turbines were then phased back into reactivated status at the end of the shutdown period as they were searched by the monitoring team.

Each record records a single date on which a string was shut down and the type of shutdown involved. For all string/date combinations not recorded in this table, the string/date combination was not shut down.

dbo. SeasonalShutdown

Field Name	Data Description	Notes
RecordID	Primary key (unique identifier). Do not allow nulls.	Automatically numbered. User cannot enter or change the value.
String	The string that is shut down. Only strings that are shut down appear in this table. Do not allow nulls.	
Turbines	Turbines in the string that were shut down. Allow nulls.	

Field Name	Data Description	Notes
ShutdownDate	<p>Date in question on which the string is shut down. No records appear in this table for dates on which a string is in operation.</p> <p>Do not allow nulls.</p>	
ShutdownType	<p>Type of shutdown. There are two types of experimental shutdown during the 2005 to 2009 type period:</p> <p style="text-align: center;">crossover</p> <p style="text-align: center;">universal phased</p> <p>In addition to the experimental shutdown periods, some strings were shutdown for other reasons such as weather, operational issues, or seasonal shutdown exemption. There is one tag that designates these non-scheduled shutdowns:</p> <p style="text-align: center;">anomalous</p> <p>Do not allow nulls.</p>	
Notes	<p>Notes field in this table is used extensively. Many strings were shut down for periods that started before the scheduled shutdown and ended after the scheduled shutdown. The actual shutdown dates are recorded in the Notes field.</p> <p>Some strings were reactivated earlier than planned. The unplanned reactivation date is recorded in the Notes field. Some of these strings were scheduled shutdowns (universal phased) and the only place where the anomalous early reactivation is recorded is in the Notes field, found with a search on the string '%earlier%'.</p> <p>Further, some strings were merged to form new string numbers (such as 110.99). In many of these cases, only a subset of the turbines in the resulting new string were shut down. The subset of turbines is recorded in the Notes field.</p> <p>Allow nulls.</p>	
DateEntered	<p>Date on which the record was entered into the database.</p> <p>Allow nulls.</p>	