

## 21.9 Table: P5MIN\_UNITSOLUTION

### 21.9.1 P5MIN\_UNITSOLUTION

Name	P5MIN_UNITSOLUTION
Comment	<p>The five-minute predispach (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispach cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods.</p> <p>P5MIN_UNITSOLUTION shows the Unit results from the capacity evaluations for each period of the study.</p>

### 21.9.2 Description

P5MIN\_UNITSOLUTION data is confidential, so shows own details for participant.

#### Source

P5MIN\_UNITSOLUTION updates every 5 minutes for all units, even zero targets.

#### Volume

Rows per day: 57600

Based on 200 units per Interval

#### Note

A bitwise flag exists for each ancillary service type such that a unit trapped or stranded in one or more service type can be immediately identified. The SPD Formulation document details the logic determining whether a unit is "trapped" or "stranded". The flag is defined as follows:

Flagged Condition	Bit	Description	Field value
FCAS profile active	0	The bid profile for this service has been activated such that the unit is available to be cleared to provide this ancillary service type.	1 or 3
Trapped	1	The unit is enabled to provide this ancillary service type, however the profile for this service type is causing the unit to be trapped in the energy market.	3
Stranded	2	The unit is bid available to provide this ancillary service type, however, the unit is operating in the energy market outside of the profile for this service type and is stranded from providing this service.	4

### 21.9.3 Notes

Name	Comment	Value
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Visibility      Data in this table is:      Private

#### 21.9.4      Primary Key Columns

Name

DUID

INTERVAL\_DATETIME

RUN\_DATETIME

#### 21.9.5      Index Columns

Name

LASTCHANGED

#### 21.9.6      Content

Name	Data Type	Mandatory	Comment
<b>RUN_DATETIME</b>	DATE	X	Unique Timestamp Identifier for this study
<b>INTERVAL_DATETIME</b>	DATE	X	The unique identifier for the interval within this study
<b>DUID</b>	VARCHAR2(10)	X	Dispatchable unit identifier
CONNECTIONPOINTID	VARCHAR2(12)		Connection point identifier for DUID
TRADETYPE	NUMBER(2,0)		Generator or Load
<b>AGCSTATUS</b>	NUMBER(2,0)		AGC Status from EMS: 1 = on, 0 = off

<b>INITIALMW</b>	NUMBER(15,5)		Initial MW at start of period. For periods subsequent to the first period of a P5MIN run, this value represents the cleared target for the previous period of that P5MIN run.
<b>TOTALCleared</b>	NUMBER(15,5)		Target MW for end of period
<b>RAMPDOWNRATE</b>	NUMBER(15,5)		Ramp down rate (lessor of bid or telemetered rate).
<b>RAMPUPRATE</b>	NUMBER(15,5)		Ramp up rate (lessor of bid or telemetered rate).
LOWER5MIN	NUMBER(15,5)		Lower 5 min reserve target
LOWER60SEC	NUMBER(15,5)		Lower 60 sec reserve target
LOWER6SEC	NUMBER(15,5)		Lower 6 sec reserve target
RAISE5MIN	NUMBER(15,5)		Raise 5 min reserve target
RAISE60SEC	NUMBER(15,5)		Raise 60 sec reserve target
RAISE6SEC	NUMBER(15,5)		Raise 6 sec reserve target
LOWERREG	NUMBER(15,5)		Lower Regulation reserve target
RAISEREG	NUMBER(15,5)		Raise Regulation reserve target
AVAILABILITY	NUMBER(15,5)		Energy Availability (MW)
RAISE6SECFLAGS	NUMBER(3,0)		Raise 6sec status flag
RAISE60SECFLAGS	NUMBER(3,0)		Raise 60sec status flag
RAISE5MINFLAGS	NUMBER(3,0)		Raise 5min status flag
RAISEREGFLAGS	NUMBER(3,0)		Raise Reg status flag
LOWER6SECFLAGS	NUMBER(3,0)		Lower 6sec status flag

LOWER60SECFLAGS	NUMBER(3,0)		Lower 60sec status flag
LOWER5MINFLAGS	NUMBER(3,0)		Lower 5min status flag
LOWERREGFLAGS	NUMBER(3,0)		Lower Reg status flag
LASTCHANGED	DATE		Last date and time record changed
SEMIDISPATCHCAP	NUMBER(3,0)		Boolean representation flagging if the Target is Capped
<b>INTERVENTION</b>	Number(2,0)		Flag to indicate if this result set was sourced from the pricing run (INTERVENTION=0) or the physical run(INTERVENTION=1). In the event there is not intervention in the market, both pricing and physical runs correspond to INTERVENTION=0