



California ISO

# Settlements Performance Project Change Request

Date: 6/13/2018

By: Market Settlements Design and Configuration (MSDC)

# Market Settlement User Group – 6/13 MSDC

- Change Request  
Address 0 and null values

# Market Settlement User Group – 6/13 MSDC

- Address mapping of 0 and null values (Bill Determinant)

zero			
BILL_DETERMINANT_NAME	5min	ZERO	KALL
BA_5M_RSRC_RTD_FRD_BAA_PRC	300	3512	5282
BA_5M_RSRC_RTD_FRU_BAA_PRC	300	3486	5282
BA_5M_RSRC_RTD_FRD_TOT_PRC	300	1663	2641
BA_5M_RSRC_RTD_FRU_TOT_PRC	300	1637	2641
BA_5M_RSRC_RTD_MCC_PRC	300	894	2663
NODAL_5M_BAA_RTD_MCC_PRC	300	762	7160
NODAL_5M_RTD_MCL_PRC	300	64	4634
NODE_5M_RTD_LMP_PRC	300	22	4634
BA_5M_RSRC_DA_ENGY_BID_PRC	300	3	1193
BA_5M_RSRC_FMM_ENGY_BID_PRC	300	1	1421

BILL_DETERMINANT_NAME	Hourly	ZERO	ALL
BA_HRLY_RSRC_RUC_PRC	25	1208	1208
BA_HRLY_RSRC_RUC_AWARD_BID_QTY	25	1204	1208
BA_HRLY_RSRC_SUM_RUC_BID_AND_RUC_RA_CAP_QTY	25	1142	1208
BA_HRLY_RSRC_DA_LOW_OP_LIM_QTY	25	1076	1326
BA_HRLY_RSRC_DA_GENERIC_CPM_CAP_QTY	25	772	775
BA_HRLY_RSRC_RT_GENERIC_CPM_CAP_QTY	25	772	775
BA_HRLY_RSRC_FLEX_RESOURCE_ADEQUACY_CAP_QTY	25	649	775
LAP_HRLY_RTM_MCC_PRC	25	448	486
PNODE_HRLY_LAP_DA_LDF_FACTOR	25	304	2298
CRUSB_BA_HRLY_RSRC_DA_ENGY_SCHD_QTY	25	277	1326
PNODE_HRLY_RT_LDF	25	262	2298
BA_HRLY_RSRC_HASP_BLOCK_ADVSRV_SCH_QTY	25	250	1172
BA_HRLY_RSRC_RUC_TOT_INCLUDING_DA_SCHD_CAP_QTY	25	248	1208
BA_HRLY_DA_VIR_AWARD_NODAL_QTY	25	168	3121
BA_HRLY_RSRC_GMC_DA_ENGY_BID_QTY	25	157	2015
BA_HRLY_RSRC_GMC_RT_ENGY_BID_QTY	25	156	2911
BA_HRLY_RSRC_USE_LIM_DA_EXEMPT_OUTAGE_QTY	25	129	129

BILL_DETERMINANT_NAME	15min	ZERO	ALL
BA_15M_RSRC_FMM_FRD_BAA_PRC	100	3608	5248
BA_15M_RSRC_FMM_FRD_UNCERT_CAP_QTY	100	1765	2624
BA_15M_RSRC_FMM_FRD_TOT_PRC	100	1755	2624
BA_15M_RSRC_FMM_FRU_UNCERT_CAP_QTY	100	1749	2624
BA_15M_RSRC_FMM_FRU_BAA_PRC	100	1510	5248
NODAL_15M_BAA_FMM_MCC_PRC	100	955	7257
BA_15M_RSRC_FMM_FR_FCAST_MVMT_QTY	100	813	2627
BA_15M_RSRC_FMM_SELF_SCHD_QTY	100	597	2631
BA_15M_RSRC_FMM_CLEARED_ENGY_QTY	100	570	2631
BA_15M_RSRC_RTM_HRLY_AWARD_SPIN_BID_QTY	100	100	144
BA_15M_RSRC_TOT_RT_SPIN_QSP_QTY	100	86	144

BILL_DETERMINANT_NAME	5min	NULL	ALL
BA_5M_RSRC_FMM_ENGY_BID_PRC	300	776	1421
BA_5M_RSRC_RTM_ENGY_BID_PRC	300	728	1339
BA_5M_RSRC_IIE_OPT_FMM_DEB_PRC	300	216	1223
BA_5M_RSRC_IIE_OPT_RTM_DEB_PRC	300	37	1326

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## Address mapping of 0 and null values (XML File)

dataType	lastModified	settlementVer	dataSource	uom	calcLevel	precisionLevel	configVer	intervalCount	Attribute	Data	CCode	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWh	9	9	5	1	Attribute (2)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWh	9	9	5	1	Attribute (2)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	7	9	4.14	300	Attribute (16)	Data (288)	CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	UOM	8	9	4.14	25	Attribute (3)		CCode (5)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWh	9	9	5	1	Attribute (2)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	4	9	11.14	300	Attribute (16)	Data (288)	CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	4	9	11.14	300	Attribute (17)	Data (288)	CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	4	9	11.14	300	Attribute (16)	Data (288)	CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	UOM	8	9	4.14	25	Attribute (3)		CCode (5)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	7	9	4.14	300	Attribute (16)	Data (288)	CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	4	9	11.14	300	Attribute (17)	Data (288)	CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWh	9	9	5	1	Attribute (2)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	24	9	5	25	Attribute (1)		CCode (2)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	24	9	5	25	Attribute (1)		CCode (2)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	24	9	10.14	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	12	9	10.14	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	25	9	5	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	25	9	5	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	23	9	5	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	23	9	10.14	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWH	6	9	10.14	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MW	24	9	10.14	25	Attribute (1)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	FACTOR	7	9	9.16	300	Attribute (5)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWH	6	9	1.17	300	Attribute (7)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	FACTOR	7	9	9.16	300	Attribute (5)		CCode (1)	Index
INTERMEDIATE	2018-05-11T19:12:42...	1	STL_CHARGES	MWH	4	9	10.14	300	Attribute (7)	Data (288)	CCode (2)	Index

Attribute (16)			Data (288)		
seq	name	int	int	val	
1	BA_ID	10...	1	2018-05-107000500...	-13.583333333
2	RSRC_ID	S...	2	2018-05-107001000...	-13.583333333
3	RSRC_TYPE	ETIE	3	2018-05-107001500...	-13.583333333
4	ENERGY_TYPE	W...	4	2018-05-107002000...	-13.583333333
5	ENTITY_TYPE	U...	5	2018-05-107002500...	-13.583333333
6	BAL_AUTHORITY_AREA	CL...	6	2018-05-107003000...	-13.583333333
7	UDC_ID	S...	7	2018-05-107003500...	-13.583333333
8	TAC_AREA_ID	S...	8	2018-05-107004000...	-13.583333333
9	HVAC_PAYER_ID	N...	9	2018-05-107004500...	-13.583333333
10	INTERTIE_ID	N...	10	2018-05-107005000...	-13.583333333
11	ENTITY_COMPONENT...	O...	11	2018-05-107005500...	-13.583333333
12	ENTITY_COMPONENT...	N...	12	2018-05-107010000...	-13.583333333
13	CONTRACT_REF_ID	A...	13	2018-05-107010500...	-13.583333333
14	PENALTY_RSRC_ID	T...	14	2018-05-107011000...	-13.583333333
15	MSS_EMISSION_PAY...	T...	15	2018-05-107011500...	-13.583333333
16	RESOURCE_SUBTYPE	IN...	16	2018-05-107012000...	-13.583333333

Attribute (2)			Data (288)		
seq	name	int	int	val	
1	BA_ID	10...			
2	INTERTIE_ID	IV...			

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## With Data

```
</BillDeterminant>
<BillDeterminant name="BA_5M_RSRC_NORMZD_CRN@QUANTITY" mrid="..." dataType
uom="MW" calcLevel="7" precisionLevel="9" configVer="4.14" intervalCount="300">
  <Attribute seq="1" name="BA_ID" val="..." />
  <Attribute seq="2" name="RSRC_ID" val="..." />
  <Attribute seq="3" name="RSRC_TYPE" val="..." />
  <Attribute seq="4" name="ENERGY_TYPE" val="..." />
  <Attribute seq="5" name="ENTITY_TYPE" val="..." />
  <Attribute seq="6" name="BAL_AUTHORITY_AREA" val="..." />
  <Attribute seq="7" name="UDC_ID" val="..." />
  <Attribute seq="8" name="TAC_AREA_ID" val="..." />
  <Attribute seq="9" name="HVAC_PAYER_ID" val="..." />
  <Attribute seq="10" name="INTERTIE_ID" val="..." />
  <Attribute seq="11" name="ENTITY_COMPONENT_TYPE" val="..." />
  <Attribute seq="12" name="ENTITY_COMPONENT_SUBTYPE" val="..." />
  <Attribute seq="13" name="CONTRACT_REF_ID" val="..." />
  <Attribute seq="14" name="PENALTY_RSRC_ID" val="..." />
  <Attribute seq="15" name="MSS_EMISSION_PAY_FLAG" val="..." />
  <Attribute seq="16" name="RESOURCE_SUBTYPE" val="..." />
  <Data int="2018-05-10T00:05:00-07:00" val="..." />
  <Data int="2018-05-10T00:10:00-07:00" val="..." />
  <Data int="2018-05-10T00:15:00-07:00" val="..." />
  <Data int="2018-05-10T00:20:00-07:00" val="..." />
  <Data int="2018-05-10T00:25:00-07:00" val="..." />
  <Data int="2018-05-10T00:30:00-07:00" val="..." />
```

## Without Data

```
<BillDeterminant name="BA_DAY_INTERTIE_LV_WHL@QUANTITY" mrid="...">
uom="MWh" calcLevel="9" precisionLevel="9" configVer="5" intervalCount="1">
  <Attribute seq="1" name="BA_ID" val="..." />
  <Attribute seq="2" name="INTERTIE_ID" val="..." />
  <CCode val="WHEEL_EXPORT_PC" />
  <IndexA ref="..." />
</BillDeterminant>
```

