

Equivalence Partitions		Boundary Values			Decision Table	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Parameters	Partitions	BVA1	kWh	-0.01	kWh <=500	T	F	T	T	T	F	F	F	T	T	F	F	F	T		
Usage Tier	-min.double - 0			0	kWh <=1500	T	T	F	T	T	F	T	T	F	F	T	F	F	F		
	0.1 - 500			0.01	Smart Device Integration	T	T	T	F	T	T	F	T	F	F	F	T	F	F	F	
	500.01 - 1500			499.99	Peak Opt-Out	T	T	T	F	T	T	F	F	F	F	F	F	T	T	T	
	1500.01 - max.double			500																	
Smart Device Integration	TRUE			500.01																	
	FALSE			1499.99																	
Peak Hours Opt-Out	TRUE			1500																	
	FALSE			1500.01																	

Test Case Table				
TC	kWh	hasSmartDevice	peakOptOut	Expected
TC 1.1	-5	TRUE	TRUE	ERROR
TC 1.2	250.50	TRUE	TRUE	0
TC 1.3	750.50	TRUE	TRUE	0.15
TC 1.4	750.5	TRUE	FALSE	0.1
TC 1.5	750.5	FALSE	TRUE	0.1
TC 1.6	750.5	FALSE	FALSE	0
TC 1.7	1800	TRUE	TRUE	0.2
TC 1.8	1800	FALSE	TRUE	0.05
TC 1.9	1800	TRUE	FALSE	0.05
TC 1.10	1800	FALSE	FALSE	0.05
TC 2.1	-0.01	FALSE	FALSE	ERROR
TC 2.2	0 FALSE		FALSE	ERROR
TC 2.3	0.01	TRUE	TRUE	0
TC 2.4	499.99	FALSE	FALSE	0
TC 2.5	500	TRUE	FALSE	0
TC 2.6	500.01	FALSE	FALSE	0
TC 2.7	1499.99	TRUE	TRUE	0.15
TC 2.8	1500	TRUE	FALSE	0.1
TC 2.9	1500.01	TRUE	TRUE	0.2
TC 3.1	499	TRUE	TRUE	0
TC 3.2	1499.99	TRUE	TRUE	0.15
TC 3.4	499	FALSE	TRUE	0
TC 3.5	499	TRUE	FALSE	0
TC 3.6	1600	TRUE	TRUE	0.2
TC 3.7	1499.99	FALSE	TRUE	0.1
TC 3.8	1499.99	TRUE	FALSE	0.1
TC 3.9	499.99	FALSE	FALSE	0
TC 3.11	1600.01	FALSE	FALSE	0.05
TC 3.13	1499.99	FALSE	FALSE	0
TC 3.14	1600.5	TRUE	FALSE	0.05
TC 3.15	1600.52	FALSE	TRUE	0.05

TCI	Parameter	Value Range
EQ1	kWh	-min.double - 0
EQ2		0.1 - 500
EQ3		500.01 - 1500
EQ4		1500.01 - max.double
EQ5	Smart Device Integration	TRUE
EQ6		FALSE
EQ7	Peak Hours Opt-Out	TRUE
EQ8		FALSE
BVA1	kWh	-0.01
BVA2		0
BVA3		0.01
BVA4		499.99
BVA5		500
BVA6		500.01
BVA7		1499.99
BVA8		1500
BVA9		1500.01
DC1	Rule 1	
DC2	Rule 2	
DC3	Rule 4	
DC4	Rule 5	
DC5	Rule 6	
DC6	Rule 7	
DC7	Rule 8	
DC8	Rule 9	
DC9	Rule 11	
DC10	Rule 13	
DC11	Rule 14	
DC12	Rule 15	

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TC 1.6	750.5	FALSE	FALSE	0
TC 1.7	1800	TRUE	TRUE	0.2
TC 1.8	1800	FALSE	TRUE	0.05
TC 1.9	1800	TRUE	FALSE	0.05
TC 1.10	1800	FALSE	FALSE	0.05
TC 2.3	0.01	TRUE	TRUE	0
TC 2.4	499.99	FALSE	FALSE	0
TC 2.5	500	TRUE	FALSE	0
TC 2.6	500.01	FALSE	FALSE	0
TC 2.7	1499.99	TRUE	TRUE	0.15
TC 2.8	1500	TRUE	FALSE	0.1
TC 2.9	1500.01	TRUE	TRUE	0.2
TC 3.1	499	TRUE	TRUE	0
TC 3.2	1499.99	TRUE	TRUE	0.15
TC 3.4	499	FALSE	TRUE	0
TC 3.5	499	TRUE	FALSE	0
TC 3.6	1600	TRUE	TRUE	0.2
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TC 2.1	-0.01	FALSE	FALSE	ERROR
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250.50	TRUE	TRUE	0
750.50	TRUE	TRUE	0.15
750.5	TRUE	FALSE	0.1
750.5	FALSE	TRUE	0.1
750.5	FALSE	FALSE	0
1800	TRUE	TRUE	0.2
1800	FALSE	TRUE	0.05
1800	TRUE	FALSE	0.05
1800	FALSE	FALSE	0.05
0.01	TRUE	TRUE	0
499.99	FALSE	FALSE	0
500	TRUE	FALSE	0
500.01	FALSE	FALSE	0
1499.99	TRUE	TRUE	0.15
1500	TRUE	FALSE	0.1
1500.01	TRUE	TRUE	0.2
499	TRUE	TRUE	0
1499.99	TRUE	TRUE	0.15
499	FALSE	TRUE	0
499	TRUE	FALSE	0
1600	TRUE	TRUE	0.2
1499.99	FALSE	TRUE	0.1
1499.99	TRUE	FALSE	0.1
499.99	FALSE	FALSE	0
1600.01	FALSE	FALSE	0.05
1499.99	FALSE	FALSE	0
1600.5	TRUE	FALSE	0.05
1600.52	FALSE	TRUE	0.05