

**CIS Replacement  
Project**

**UTD- RDD-C-1-50-50 Critical Care Reduced Rate  
Monthly Report - Final - Unit Test Document**

**Unit Test Document –  
RDD-C-1-50-50 Critical Care Reduced Rate Monthly Report - Final**

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## Document Information

Business Area	ELECTRIC MARKET OPERATIONS
GAP/CR ID/RICEFW	RDD-C-1-50-50
FS Definition Form ID	
SAP R/3 Version	
Global / Local	

## Approval

Approved by	Name	Role	Signature	Date
Process Team Lead				
Development Team Lead				

## Document History

Version	Reason for change	Date
1.0	Initial Draft	03/28/2022

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## 1. General Information

Functional Design Spec ID:	RDD-C-1-50-50	Development ID:	
Development Title:	Critical Care Reduced Rate Monthly Report		
Implement. Phase			
Message Class:			
Develop. Class:			
Module:			
UTD User/User Group:			
Contact Details:			
Prepared By	张学友	Prep Date:	03/28/2019
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Business/Functional Analyst:			
	Phone Number:		
	Email Address:		
Functional Area User Contact:			
	PRIMARY:		
	Phone Number:		
	Email Address:		
	Secondary:		
	Phone Number:		
	Email Address:		
Run Frequency		Languages	
Priority:		Complexity:	

## Transport Information

Transport Number	Transport Description
HZDK900500	RDD-C-1-50-50 Critical Care Reduced Rate Report - CP Dev
HZDK900508	RDD-C-1-50-50 Critical Care Reduced Rate Report - Query Dev

## 2. Description and Purpose

The system shall provide a calendar monthly report of all accounts being billed only for TC charges as a result of a rejected DNP for critical care. The report should show the actual bill amount, what the full bill amount would have been normally, the difference along with total counts and dollar amounts and ESI ID and CR details.

Note: Currently the basic data is generated by executing a query via EAI. The results of the query are then incorporated to the report to be delivered. The EMO-Service Orders Team adds the full billing amount. See attachments for copy of report.

If the Critical Care State is either “pending” or “active” and the Premise Registry Type is CCC (Critical Care Customer), CCCT (Critical Care Customer Temporary), CLI (Critical Load Industrial) or CLP (Critical Load Public Safety) and the request type is a 65001 with purpose code DC001, DC004, or DC005, (i.e. DNP market transaction) the system shall do the following:

- Generate the 650\_02 reject with the reject code and description:
  - CCC – Critical Care Customer - For Premise Registry Type CCC or CCCT
  - CLC – Critical Load Customer - For Premise Registry Type CLI or CLP
- Update the transaction status of the 650\_01 to Rejected
- Create a time sliced installation fact entry - ‘Critical Care’. This installation fact entry is the indicator for the billing engine to assess only surcharge related charges (Reduced rate/TC charges).

This is a monthly report of all accounts that were billed with the reduced rate during the previous month and will include the ESI ID, CR, rate and usage details. This report goes into the monthly management report binder.

It should also include what would be the charges if the installation would have been using the full rate and the difference between the charges. Currently, the calculation for the full residential rate is manually being calculated. Going forward, the billing engine will calculate both ‘full’ and ‘reduced’ bill. Only the reduced billing will be invoiced to the market. The system will store and pass the invoiced components as well as the calculated full charges to the reporting repository. The report will include these fields and calculate the difference.

### 3. Unit Test Plan

**Test 1: Installation is linked to the correct ESI ID, Rate Category, Revenue Area Code**

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Test Installation with correct ESI ID, Rate Category, Revenue Area Code	1	Run the report or preview data from HANA view		Analysis report value should match value from ECC T-Code ES32	Analysis report value matched value from ECC T-Code ES32	Tengran Liu– 03/28/2019	Pass

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Unit Test Document

ECC

**Display Installation: 76756**

Load profile Billing periods RTP interface

Installation 76756 ☐ Installation not disconnected

Division 10 Electricity

Premise 79090 HOUSTON, NAGLE ST 626 APT 1000

Current Contract 61829

Current bus. partner 3000000757 SUSAN S PRICHARD / 626 NAGLE ST / HOUSTON TX 77003

Time-dependent data

Valid fr.	Valid to	BClss	Rate cat.	Industry	Sy...	TempAr...	Franchise ...	Ex MR
03/11/2014	12/31/9999	EMMK	E_RES					150

Billing/meter reading control

Time Zone: CST Central Time (Dallas)

Base period category: ☒ Previous period ☐ Period of prev. year

MR control

Blocking reason: Holiday Cal. ID

Further Information

Inst. type: ENDR Metered non-IDR

Supply guarant:

Volt. level

Deregulation

Serv. Type: 0001 TDSP

Deregul. status: Z2 Active

Point of delivery

Grid: ELEC Grid Level: 01 Distr.: CNP

Valid Fr.: 03/11/2014 Time: 00:00:00 Valid To: 12/31/9999 Time: 23:59:59

Pnt of Deliv. ID: 1008901006900330230109

Supply Scenario: 000 Undefined

CNP Electric

ERCOT Load Profile: BUSHILF\_COAST\_NIDR\_NWS\_MQTOU

District: 01 Houston

Revenue Area Code: 009 HOUSTON

RAC Town Code: 800 HOUSTON

Permit Requirements

Move In: ☐ Order: ☒ New Meter: ☒

BOBJ Analysis or Join Node Preview in HANA View

0FISCPER	0UCINSTALLA	0UCINSTALLA_0UC_POD_EXT
2017002	0000076756	1008901006900330230109

Critical Care Reduced Rate Monthly Report

Detail List for Previous Month

Rate Category	ESI ID	Competitive Retailer (CR) Code	Revenue Area Code	Invoice Code	Billing Cycle
RES	1008901006900330230109	RERS	9	01	15

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## Unit Test Docume

### Test 2: Example record is linked with correct CR Code

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Test CR code value	1	Run the report		Example ESI ID is linking the correct CR code with ECC	Example ESI ID has been linked the correct CR code with ECC	Tengran Liu-03/28/2019	Pass

### ECC

**Display contract: 61829**

Contract: 61829  
 Division: 10 Electricity  
 Company Code: 0003 CNP Houston Electric, LLC

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**Billing-relevant data**

Joint Invoicing: 2 Alt. portion:   
 Tax Jur.: US TX 7700323410  
 Bill. blk. reas.: ☐ Bill manually: ☐  
 Release reason: ☐  
 Outsort.chk grp:   
 Man. OS billing: ☐ No. outsortings: 0  
 Dunning Proc.: ☐ M/o dunn prc: ☐  
 Invoicing Lock:

**Account assignment data**

Act determ. ID: PZ  
 CO Acct Assgmt: 1101202  
 Segment:

**Deregulation**

Serv. Provider: CNP SP reference no:   
 Inv. Serv. Prov: RERS Payment Class: 0001

### BOBJ Analysis or Join Node Preview in HANA View

Rate Category	ESI ID	Competitive Retailer (CR) Code	Revenue Area Code
RES	1008901006900330230109	RERS	9



# CIS Replacement Project

## Unit Test Docume

### Test 3: Test Billing Amount

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Validate Data between ECC & Analysis Report for Billing Amount	1	Run the report		Billing amount from ECC should match with amount from Analysis report	Billing amount from ECC matched with amount from Analysis report	Tengran Liu-03/28/2019	Pass

### ECC

Display Print Document: 300900005841 Contract Account: 6100000757

Doc. Ines Hdr data Document Overview Billing Documents Posting Documents

Print Doc. 300900005841

Print document	Ln	Print CoCd	LTBY	MTrans	ST	Tax	Net amount	Doc. Date	Posting Date	Net Date	Doc. No.	Valid from	Valid to	Billing qty	Price #
300900005841	5	X	X	0003	ZAMSUR	0100	8307	72.08				01/01/2015	12/09/2016	1.000000...	3.055000...
300900005841	6	X	X	0003	ZNUCH	0100	810E	0.22				01/01/2015	12/09/2016	21,566...	0.00001...
300900005841	7	X	X	0003	ZTCRCH	0100	8129	182.04				01/01/2015	12/09/2016	21,566...	0.00044...
300900005841	8	X	X	0003	ZDCRCH	0100	8529	17.14				01/01/2015	12/09/2016	21,566...	0.00079...
300900005841	9	X	X	0003	ZRCRCH	0100	8357	0.00				01/01/2015	12/09/2016	21,566...	0.00000...
300900005841	10	X	X	0003	ZEEFCH	0100	8327	13.11				01/01/2015	12/09/2016	21,566...	0.00060...
300900005841	11	X	X	0003	ZADFCR	0100	8ADF	0.00				01/03/2015	10/24/2016	20,166...	0.00000...
300900005841	12	X	X	0003	ZADFCR	0100	8AD3	0.27				10/25/2016	12/09/2016	1,400.0...	0.00019...
300900005841	13	X	X	0003	ZT4TOT	0100	8T04	0.00				01/01/2015	10/14/2015	6,729.0...	0.00000...
300900005841	14	X	X	0003	ZT4TOT	0100	8T04	0.00				10/15/2015	03/31/2016	5,141.0...	0.00000...
300900005841	15	X	X	0003	ZT4TOT	0100	8T04	0.00				04/01/2016	10/14/2016	5,992.0...	0.00000...
300900005841	16	X	X	0003	ZT4TOT	0100	8T04	0.06				10/15/2016	12/09/2016	1,704.0...	0.00004...
300900005841	17	X	X	0003	ZTC1CO	0100	8T11	0.00				01/01/2015	03/31/2016	0.00000...	0.00000...
300900005841	18	X	X	0003	ZTC1CO	0100	8T11	0.00				04/01/2016	12/09/2016	0.00000...	0.00000...
300900005841	19	X	X	0003	ZTC2CO	0100	8T21	0.00				01/01/2015	03/06/2015	0.00000...	0.00000...
300900005841	20	X	X	0003	ZTC2CO	0100	8T21	0.00				05/10/2015	03/31/2016	0.00000...	0.00000...
300900005841	21	X	X	0003	ZTC2CO	0100	8T21	0.00				04/01/2016	12/09/2016	0.00000...	0.00000...
300900005841	22	X	X	0003	ZTC3CO	0100	8T31	0.00				01/01/2015	01/31/2015	0.00000...	0.00000...
300900005841	23	X	X	0003	ZTC3CO	0100	8T31	0.00				02/01/2015	03/31/2016	0.00000...	0.00000...
300900005841	24	X	X	0003	ZTC3CO	0100	8T31	0.00				04/01/2016	12/09/2016	0.00000...	0.00000...
300900005841	25	X	X	0003	ZTC4CO	0100	8T41	0.00				01/01/2015	10/14/2015	0.00000...	0.00000...
300900005841	26	X	X	0003	ZTC4CO	0100	8T41	0.00				10/15/2015	03/31/2016	0.00000...	0.00000...
300900005841	27	X	X	0003	ZTC4CO	0100	8T41	0.00				04/01/2016	12/09/2016	0.00000...	0.00000...
300900005841	28	X	X	0003	ZTC5CO	0100	8T51	0.00				01/01/2015	03/14/2015	0.00000...	0.00000...
300900005841	29	X	X	0003	ZTC5CO	0100	8T51	0.00				03/15/2015	03/31/2016	0.00000...	0.00000...
300900005841	30	X	X	0003	ZTC5CO	0100	8T51	0.00				04/01/2016	12/09/2016	0.00000...	0.00000...
300900005841	31	X	X	0003	SUBT			0.00				01/01/2015	12/09/2016	0.00000...	0.00000...
300900005841	32	X	X	0003	SUBT			0.00				01/01/2015	12/09/2016	0.00000...	0.00000...
300900005841	33	X	X	0003	SUBT			0.00				01/01/2015	12/09/2016	0.00000...	0.00000...
300900005841	34	X	X	0003	SUBT			0.00				01/01/2015	12/09/2016	0.00000...	0.00000...
300900005841	35	X	X	0003	SUBT			0.00				01/01/2015	12/09/2016	0.00000...	0.00000...
							951.28								

### BOBJ Analysis or Join Node Preview in HANA View

EST ID	Competitive Retailer (CR) Code	Revenue Area Code	Invoice Code	Billing Cycle	Billing Period Start Date	Billing Period End Date	Reduced Rate Bill Amount - Previous Month
1008901006900330230109	RERS	9	01	15	01/01/2015	12/09/2016	951.28

## CIS Replacement Project

## Unit Test Document

### Test 4: Whether Billing Periods are correct

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Validate billing period between ECC & Analysis Report	1	Run the report		Billing period should match between T-code es32 & Analysis Report	Billing period matched between T-code es32 & Analysis Report	Tengran Liu-03/28/2019	Pass

#### ECC

**Billing View of Installation**

No History Hide Empty Tables Refresh

Bil. Time Document Bil. Order Rate Types Rates Register

Billing Documents

Installat.	Start bill.per.	End bill. per.	Archived	Contract	Bil.doc.no.	Doc. No.	Short Descript.
76756	01/18/2017	02/26/2017	<input type="checkbox"/>	61829	40818713	300900005843	Interim Billing (02)
76756	12/10/2016	01/17/2017	<input type="checkbox"/>	61829	40818712	300900005842	Interim Billing (02)
76756	01/01/2015	12/09/2016	<input type="checkbox"/>	61829	40818710	300900005841	Periodic Billing (01)

#### BOBJ Analysis or Join Node Preview in HANA View

EST ID	Competitive Retailer (CR) Code	Revenue Area Code	Invoice Code	Billing Cycle	Billing Period Start Date	Billing Period End Date
1008901006900330230109	RERS	9	01	15	01/01/2015	12/09/2016
1008901006900330230109	RERS	9	02	15	12/10/2016	01/17/2017
1008901006900330230109	RERS	9	02	15	01/18/2017	02/26/2017

# CIS Replacement Project

## Unit Test Document

### Test 5: Validate Usage Data

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Compare between ZCBI0600 DSO and BOBJ Analysis Report Value	1	Run the report		Value from ZCBI0600 will Match with BOBJ Analysis Report	Value from ZCBI0600 Matched with BOBJ Analysis Report	Tengran Liu-03/28/2019	Pass

### BW

EST ID	Usage - Previous Month	Reduced Rate Bill Amount - Previous Month	Full Rate Bill Amount - Previous Month
1008901006900330230109	212,860,000	951,28	951,28

### BOBJ Analysis or Join Node Preview in HANA View

EST ID	Usage - Previous Month	Reduced Rate Bill Amount - Previous Month	Full Rate Bill Amount - Previous Month
1008901006900330230109	212,860,000	951,28	951,28

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**Unit Test Document**

Error Handling - functionality in case of errors (e.g. Customer not found, Record already exists)

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
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## 4. Review Checklists

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