|  |  |
| --- | --- |
| Functional Impact: | Project: |
| eCustomer – Connect | Ameren Illinois and Ameren Missouri Business Process Redesign |
| Primary Module(s): | Description: |
| CUMLA010, CUMLA012, CUMLA013, CUMLA016, CUMSO060, CUISO013, CUBCP205, CUMSO###, CUBSO### | Allow customers with written off accounts to bypass Red Flag logic and create a payment agreement (obligation) for a period of no more then 10 days to request Turn On before being auto voided for both IL and MO. |
| Prepared By: | Date: |
| Chris Rickard | 03/06/2019 |

### COVER SHEET

|  |  |
| --- | --- |
| Assigned To | Estimated Hours: |
| Chris Rickard | 1,265 |

### CHECKLIST

|  |  |  |
| --- | --- | --- |
| **Included** | **Item Name** | **Attachments** |
|  | Module Definition |  |
|  | Elements Affected |  |
|  | Program Flow Diagram |  |
|  | Code Changes | Attached Code Listing |
|  | Report Layouts | Attached Modified Report |
|  | Screen Layouts | Attached Modified Screen |
|  | Potential Test Conditions |  |
|  | Assumptions |  |
|  | Open Design Points |  |
|  | Change Log |  |
|  | Construction Estimate |  |
|  | Peer Review |  |

### SIGN OFF

|  |  |  |  |
| --- | --- | --- | --- |
|  | Business Owner |  |  |
|  |  |  |  |
|  | Name | Signature | Date |
|  | IT Lead |  |  |
|  |  |  |  |
|  | Name | Signature | Date |
|  | CSS Technical Lead |  |  |
|  |  |  |  |
|  | Name | Signature | Date |
|  | Project Manager |  |  |
|  |  |  |  |
|  | Name | Signature | Date |

## Process Overview

This overview details the process for an Ameren MO/IL customer of whom utilizes the self-service web portal to request a Turn On (Connect). Specifically, how the web request handles customers with written off accounts. In addition, an outline is provided for both Ameren MO and Ameren IL Red Flag logic preventing online start/move/stop of service.

Currently, today within eCustomer(Ameren.com) red flag logic prevents any customer with a written off account balance greater than $5 to complete a Turn On order. Instead, an error message is displayed advising the customer to contact the call center.

Red Flag logic exists to prevent online connect, disconnect, and move orders for the following conditions:

* Premise has a pending Connect/Disconnect
* Premise is in active Collections
* Premise was cut out within the last 20 days
* Premise has had an inactive meter for 6 months or more
* Premise had a lock hot order issued and/or completed within the last 30 days
* Premise has hazardous conditions
* Premise has an exexpired Denial of Service critical contact
* Premise is currently on a non-residential tariff
* Pending lock hot
* Premise has a Red Tag
* Customer has written off account

**Going forward the following modifications are required to align with current business practices and regulations:**

* **Requirement # 1 (ESO-25, ESO-125)**: Update the current Denial of Service critical contact at the customer level for both IL and MO as follows:

"<customer name> request service at <new premise number>. Advised <balance> from <account number> must be paid before we can start new service."

Note: The contact should be critical for 30 days

* **Requirement # 2 (ESO-156, ESO-35, ESO-155, ESO-36, ESO-24, ESO-34, ESO-128)**: Modify self service web portal (eCustomer) logic to allow customers with written off accounts to bypass the Red Flag logic and process as follows:

IL & MO -> Determine if customer has account with written off balance > $50 and return list of account #'s with balance owed

IL -> If no bankruptcy, if old bill with same state requesting service, if same revenue class, if same service type, if amount owed greater then $50 provide the following options:

1. Pay the full amount owed immediately. A Connect order will be issued in a Held status for a date the customer selects for effective Turn On Date. A new 5 minute interval batch job will be created to run as follows:
   1. Identifies the payment has processed on or before the effective Turn On Date and before the 10 day auto void date and will be released for completion on the effective Turn On Date.
   2. Identifies the payment has processed after the effective Turn On Date and before the 10 day auto void date and will be released for completion as a same day order to be completed either same day (AMI) or next business day (Non Standard Meter).
2. Establish a payment agreement with the full amount due no later then 10 days from the current processing day. A Connect order will be issued in a Held status. Once the payment has been received and the payment agreement satisfied, the Connect order will be completed either same day (AMI) or next business day (Non Standard Meter).

IL -> If yes bankruptcy, if old bill not with same state requesting service, if not same revenue class, if not same service type, if amount owed less than $50 povide the following option:

* 1. Assess a deposit and issue a Connect order

MO -> If no bankruptcy, if old bill with same state requesting service, if same revenue class , if amount owed greater then $50 provide the following options:

1. Pay the full amount owed immediately. A Connect order will be issued in a Held status for a date the customer selects for effective Turn On Date. A new 5 minute interval batch job will be created to run as follows:
   1. Identifies the payment has processed on or before the effective Turn On Date and before the 10 day auto void date and will be released for completion on the effective Turn On Date.
   2. Identifies the payment has processed after the effective Turn On Date and before the 10 day auto void date and will be released for completion as a same day order to be completed either same day (AMI) or next business day (Non Standard Meter).
2. Establish a payment agreement with the full amount due no later then 10 days from the current processing day. A Connect order will be issued in a Held status. Once the payment has been received and the payment agreement satisfied, the Connect order will be completed either same day (AMI) or next business day (Non Standard Meter).

MO -> If yes bankruptcy, if old bill not with same state requesting service, if not same revenue class, if amount owed less than $50 povide the following option:

1. Assess a deposit and issue a Connect order (If yes bankruptcy, charge 2 X highest bill deposit)

Note: Written off logic will now be the last red flag checked at the customer level.

* **Requirement #3 (ESO-58, ESO-126)**: Create a new Denial of Service critical contact at the premise level for both IL and MO as follows:

"<customer name> request service at <new premise number>. Advised <balance> from <account number> must be paid before we can start new service."

Note: The contact should be critical for 30 days and can use the existing contact types 'MSK-8' and 'MSK-9' accordingly.

* **Requirement #4 (ESO-160, ESO-161, ESO-38, ESO-130)**: Create a new batch process to run daily and process the following:

IL & MO -> Identify Connect orders in held status 7 days after the issue date do to lack of payment and perform the following:

* 1. Generate email to be sent to customer advising them on a payment reinder as follows:

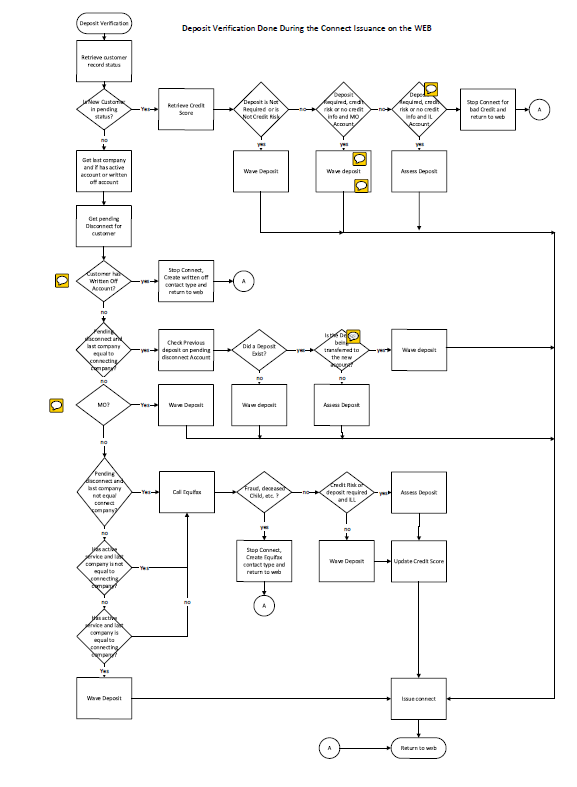
Note: Email template TBD. Will include link for pay now option.

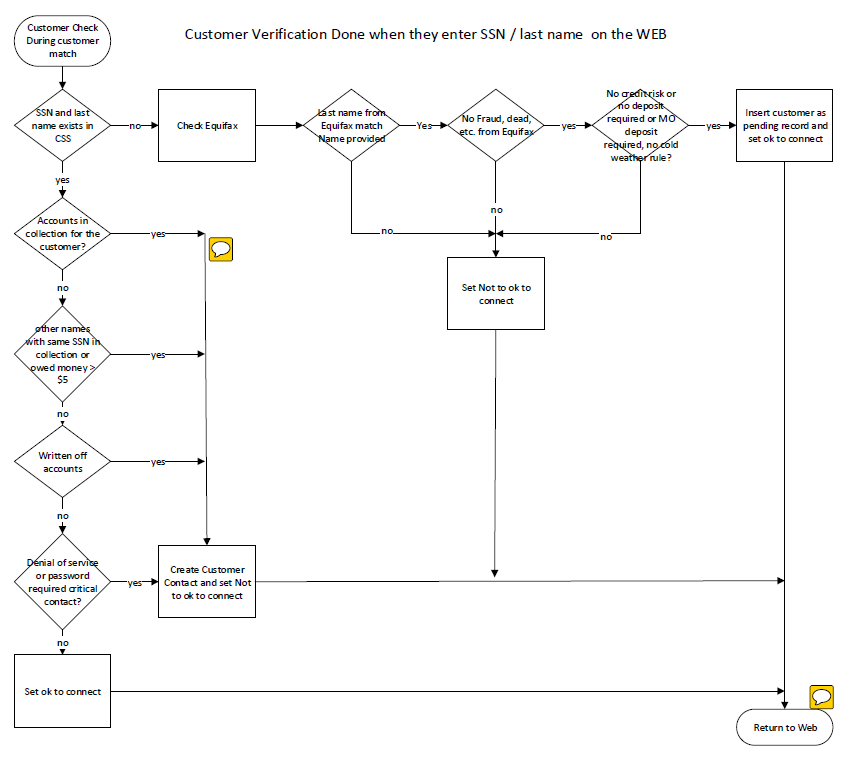
IL & MO -> Identify Connect orders in held status 10 days after the issue datedo to lack of payment and perform the following:

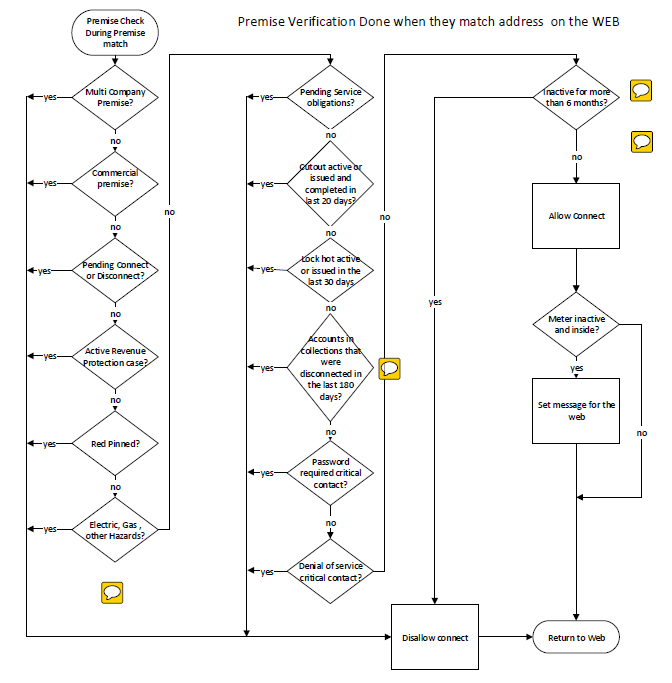
* 1. Void the order
  2. Generate email to be sent to customer advising them on the status of the order

Note: Email template TBD.

## Program Flow Diagram (if required)







## 

## Data Admin Changes

**Data Elements**

|  |  |
| --- | --- |
| Data Element Name(s) | |
|  | |
| 07 LA10-CD-HOLD-REASON  07 LA10-AT-WRITTEN-OFF | Estimate |
|  |  |

**Copybooks - Host**

|  |  |
| --- | --- |
| Copybook Name(s) | |
| CUCBLA12 – NON GEN | |
| ADD 🡪 (ADJUST FILLER)  05 LA12-BILL-ACCT-WO-DATA OCCURS 25 TIMES.  07 LA12-KY-BA PIC 9(10).  07 LA12-AT-REMN-DB PIC S9(10)V9(2). | Estimate |
|  |  |

|  |  |
| --- | --- |
| Copybook Name(s) | |
| CUCBLA16 – NON GEN | |
| ADD 🡪 (ADJUST FILLER)  05 LA12-BILL-ACCT-WO-DATA OCCURS 25 TIMES.  07 LA12-KY-BA PIC 9(10).  07 LA12-AT-REMN-DB PIC S9(10)V9(2). | Estimate |
|  |  |

|  |  |
| --- | --- |
| Copybook Name(s) | |
| CUCL060I/O | |
| 07 MSG-I-DAT-OBLIGATION.  09 MSG-I-CD-HOLD-REASON PIC X(2)  VALUE SPACES.  09 MSG-I-AT-REMN-DB PIC S9(8)V9(2) COMP-3  VALUE ZERO. | Estimate |
|  |  |

|  |  |
| --- | --- |
| Copybook Name(s) | |
| CUCBSO60 | |
| 07 MSG-I-DAT-OBLIGATION.  09 MSG-I-CD-HOLD-REASON PIC X(2)  VALUE SPACES.  09 MSG-I-AT-REMN-DB PIC S9(8)V9(2) COMP-3  VALUE ZERO. | Estimate |
|  |  |

|  |  |
| --- | --- |
| Copybook Name(s) | |
| CUV30676 – CD-HOLD-REASON | |
| Add 🡪  88 VS-WRITTEN-OFF-BALANCE VALUE '31'. |  |
|  |  |

**Copybooks - Client**

|  |  |
| --- | --- |
| Copybook Name(s) | |
| N/A | |
|  | Estimate |
|  |  |

**Codestable**

|  |  |
| --- | --- |
| Codestable(s) | |
| CIS30676 | |
| Add 🡪  E31 Written-Off Balance Owed | Estimate |
|  |  |

**Table**

|  |  |
| --- | --- |
| Table(s) | |
| SWFCTB01, SWFCT | |
|  | Estimate |
|  |  |

## Code Changes

**Module**

|  |  |
| --- | --- |
| Name | Is Code Attached Separately? |
| CUMLA012 | No |
| Description | |
| Add, Maintain, and Retrieve Customer - Online Landlord | |
| **Written Off Logic**   1. Move Written Off Logic to bottom of validation after all Customer Red Flags and change to no longer Red Flag for both MO and IL   ~~IF LA12-KY-SSN NOT EQUAL ZEROS~~  ~~PERFORM A2160-CHK-WRITTEN-OFF~~  ~~THRU A2160-EXIT~~  ~~END-IF~~  ~~\* MKS 1256724~~  ~~IF VS-WRITTEN-OFF OF VS-CD-WEB-DENIAL AND~~  ~~VS-AMEREN-IL~~  ~~PERFORM A2176-GET-WRITTEN-OFF-AMT~~  ~~THRU A2176-EXIT~~  ~~END-IF~~  ~~\* END IR 127393~~  IF CLA-CD-RETURN = ZEROES  PERFORM A2175-VERIFY-AMOUNT-OWED  THRU A2175-EXIT  PERFORM A5000-CALL-CUCR001  THRU A5000-EXIT  PERFORM A7100-CHK-CRIT-CNTC  THRU A7100-EXIT  END-IF  **\*\*\* INSERT WRITTEN OFF LOGIC HERE 🡪 REMOVE WRITTEN OFF RED FLAG FROM A2162**  IF LA12-KY-SSN NOT EQUAL ZEROS  PERFORM A2160-CHK-WRITTEN-OFF  THRU A2160-EXIT  END-IF  **\*\*\* REGARDLESS > $50 WRITTEN OFF BALANCE, STILL OK TO CONNECT. COMMENT OUT BELOW.**  ~~IF VS-WRITTEN-OFF OF VS-CD-WEB-DENIAL~~  ~~PERFORM A2176-GET-WRITTEN-OFF-AMT~~  ~~THRU A2176-EXIT~~  ~~END-IF~~    IF CLA-CD-RETURN = ZEROES  PERFORM A2200-FORMAT-CUSTOMER-DATA  THRU A2200-EXIT  PERFORM A6100-FORMAT-CUCR011I  THRU A6100-EXIT  SET MSG-I-FUNC-01 OF MSG-I-CD-FUNC-ID  OF INPUT-TXN-CUCR011 TO TRUE  PERFORM A6000-CALL-CUCR011  THRU A6000-EXIT  PERFORM A2300-FORMAT-CUSTOMER-DEMO  THRU A2300-EXIT  END-IF  END-IF.  A2000-EXIT.  MOVE 'A2162 ' TO ERR-KY-PARAGRPH-NO.  EXEC SQL  FETCH WRITTEN\_OFF\_CSR  INTO :CU01TB01.KY-CUST-NO  END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK  ~~MOVE WC-NO TO LA12-FL-OK-TO-CONNECT~~  MOVE LA12-KY-CUST-NO TO WV-ORIG-KY-CUST-NO  MOVE KY-CUST-NO OF CU01TB01  TO LA12-KY-CUST-NO  ~~MOVE MX-WEB-WRITTEN-OFF~~  ~~TO CLA-CD-RETURN~~    ~~SET VS-WRITTEN-OFF~~  ~~OF VS-CD-WEB-DENIAL~~  ~~TO TRUE~~  ~~PERFORM A2400-GEN-CNTC~~  ~~THRU A2400-EXIT~~  MOVE WV-ORIG-KY-CUST-NO  TO LA12-KY-CUST-NO  WHEN SQL-CD-NOT-FOUND   1. Add FUNC-ID-6 to retrieve all bill accounts with a written off balance for the customer requesting a Turn On for both MO and IL   MOVE 'A1000 ' TO ERR-KY-PARAGRPH-NO.  MOVE CLA-CD-FUNC-ID TO VS-CD-FUNC-ID.  EVALUATE TRUE  WHEN VS-FUNC-01 OF VS-CD-FUNC-ID  WHEN VS-FUNC-04 OF VS-CD-FUNC-ID  PERFORM A2000-RETRIEVE-CUSTOMER  THRU A2000-EXIT  WHEN VS-FUNC-06 OF VS-CD-FUNC-ID  PERFORM A2500-RETRIEVE-WRITTEN-OFF  THRU A2500-EXIT  WHEN VS-FUNC-02 OF VS-CD-FUNC-ID  \* MKS 891897 - NON RESIDENTIAL  WHEN VS-FUNC-05 OF VS-CD-FUNC-ID  PERFORM A3000-ADD-CUSTOMER  THRU A3000-EXIT  WHEN VS-FUNC-03 OF VS-CD-FUNC-ID  PERFORM A4000-MAINATIN-CUSTOMER  THRU A4000-EXIT  WHEN OTHER  SET VS-INV-FUNCTION-CD OF VS-CD-RMKS-ERR-NO  TO TRUE  MOVE VS-CD-RMKS-ERR-NO TO ERR-CD-SYS-RTRN  CLA-CD-RETURN  PERFORM S9800-PROCESS-ERROR  THRU S9800-EXIT  END-EVALUATE.  MOVE 'A2500 ' TO ERR-KY-PARAGRPH-NO.  PERFORM A2176-CHECK-WRITTEN-OFF-AMT  THRU A2176-EXIT  IF WF-WRITTEN-OFF-Y    PERFORM A2180-OPEN-WRIT-OFF-ACCT-CSR  THRU A2180-EXIT  PEFORM A2185-FETCH-WRIT-OFF-ACCT-CSR  THRU A2185-EXIT  UNTIL WF-END-OF-WO-ACCTS-Y  PERFORM A2190-CLOSE-WRIT-OFF-ACCT-CSR  THRU A2190-EXIT  END-IF  MOVE 'A2176 ' TO ERR-KY-PARAGRPH-NO.  INITIALIZE CU08TB17.  MOVE LA12-KY-CUST-NO  TO KY-CUST-NO OF CU02TB01.  SET VS-EXCS-CR OF VS-CD-BUS  TO TRUE.  MOVE VS-CD-BUS  TO CD-BUS OF CU08TB17.  EXEC SQL  SELECT NVL(SUM(AT\_REMN\_DB),0)  INTO :HWS-AT-PAST-DUE  FROM BILL\_ACCT A,  WRITE\_OFF\_HDR B  WHERE KY\_CUST\_NO = :CU02TB01.KY-CUST-NO  AND A.KY\_BA = B.KY\_BA  AND CD\_BUS <> :CU08TB17.CD-BUS  AND AT\_REMN\_DB > 0  END-EXEC.    MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK  MOVE HWS-AT-PAST-DUE  TO WV-AT-PAST-DUE  MOVE WV-DOL-AMT  TO WV-DOL-AMT-CH  MOVE WV-CNT-AMT  TO WV-CNT-AMT-CH  MOVE WV-AT-PAST-DUE-CH  TO LA12-AT-PAST-DUE    IF WV-AT-PAST-DUE < 50  MOVE ZEROS TO CLA-CD-RETURN  MOVE WC-YES TO LA12-FL-OK-TO-CONNECT  SET WF-WRITTEN-OFF-N TO TRUE  SET WF-WRIT-OFF-PAY-NOW-N TO TRUE  ELSE  IF WV-AT-PAST-DUE > 50  MOVE ZEROS TO CLA-CD-RETURN  MOVE WC-YES TO LA12-FL-OK-TO-CONNECT  PEFORM A2500-FETCH-BANKRUPT  THRU A2500-EXIT  IF WF-BANKRUPTCY-OK  SET WF-WRITTEN-OFF-Y TO TRUE  SET WF-WRIT-OFF-PAY-NOW-Y TO TRUE  END-IF  END-IF  END-IF  **\*\*\*\* NEW PARAGRAPHS**  MOVE 'A2180 ' TO ERR-KY-PARAGRPH-NO.  INITIALIZE CU08TB17.  MOVE LA12-KY-CUST-NO  TO KY-CUST-NO OF CU02TB01.  SET VS-EXCS-CR OF VS-CD-BUS  TO TRUE.  MOVE VS-CD-BUS  TO CD-BUS OF CU08TB17.  EXEC SQL  DECLARE WRIT\_OFF\_ACCT\_CSR CURSOR FOR  LECT B.KY\_BA,  B.AT\_REMN\_DB  FROM BILLSE\_ACCT A,  WRITE\_OFF\_HDR B  WHERE KY\_CUST\_NO = :CU02TB01.KY-CUST-NO  AND A.KY\_BA = B.KY\_BA  AND CD\_BUS <> :CU08TB17.CD-BUS  AND AT\_REMN\_DB > 0  END-EXEC.    EXEC SQL  OPEN WRIT\_OFF\_ACCT\_CSR  END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  IF NOT SQL-CD-OK  MOVE LT-OPEN-CURSOR TO ERR-AR-TYP-ACCESS  MOVE 'CU08TB17' TO ERR-NM-FILE  PERFORM S9800-PROCESS-ERROR  THRU S9800-EXIT  END-IF.  A2180-EXIT.  EXIT.  MOVE 'A2185' TO ERR-KY-PARAGRPH-NO.  EXEC SQL  FETCH WRIT\_OFF\_ACCT\_CSR  INTO :CU08TB17.KY-BA,  :CU08TB17. AT\_REMN\_DB  END-EXEC.  EVALUATE TRUE  WHEN SQL-CD-OK  MOVE KY-BA OF CU08TB17  TO LA12-KY-BA OF LA12-BILL-ACCT-WO-DATA [1]  MOVE AT-REMN-DB OF CU08TB17  TO LA12-AT-REMN-DB OF LA12-BILL-ACCT-WO-DATA[1]  WHEN SQL-CD-NOT-FOUND  SET WF-END-OF-WO-ACCTS-Y TO TRUE  WHEN OTHER  MOVE 'CU08TB17' TO ERR-NM-FILE  MOVE SQLCODE TO ERR-CD-SYS-RTRN  CLA-CD-RETURN  PERFORM S9800-PROCESS-ERROR  THRU S9800-EXIT    END-EVALUATE.    A2185-EXIT.  EXIT.    MOVE 'A2190 ' TO ERR-KY-PARAGRPH-NO.  EXEC SQL  CLOSE WRIT-OFF-ACCT-CSR  END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  IF NOT SQL-CD-OK  MOVE LT-CLOSE-CURSOR TO ERR-AR-TYP-ACCESS  MOVE 'CU08TB17' TO ERR-NM-FILE  PERFORM S9800-PROCESS-ERROR  THRU S9800-EXIT  END-IF.  A2190-EXIT.  EXIT.  MOVE 'A2500' TO ERR-KY-PARAGRPH-NO.  \*\*\* INSERT INL INE SQL  EXEC SQL  SELECT COUNT (\*)  FROM BA\_CUST\_CR\_INFO  WHERE CD\_DEBTOR\_TYPE IN  ('BC07','BC09','BC11','BC12','BC13',  'FRAD','JUDG')  AND DT\_BNKCY < '9999-12-31'  AND KY\_CUST\_NO =  END-EXEC  MOVE SQLCODE TO SQL-CD-RETURN  EVALUATE TRUE  WHEN SQL-CD-FOUND  IF COUNT >0  PERFORM A2510-BANKRUPT-DATE  THRU A2510-EXIT  WHEN SQL-CD-NOT-FOUND  CONTINUE  WHEN OTHER  ERROR  MOVE 'A2510' TO ERR-KY-PARAGRPH-NO.  \*\*\* INSERT INL INE SQL  EXEC SQL  SELECT NVL(MAX(DT\_BNKCY),'0001-01-01')  INTO :HWS-DT-TERM-BANKRUPTCY  FROM BA\_CUST\_CR\_INFO  WHERE CD\_DEBTOR\_TYPE IN  ('BC07','BC09','BC11','BC12','BC13',  'FRAD','JUDG')  AND DT\_BNKCY < '9999-12-31'  AND KY\_CUST\_NO =  END-EXEC  MOVE SQLCODE TO SQL-CD-RETURN  EVALUATE TRUE  WHEN SQL-CD-FOUND  IF HWS-DT-TERM-WRIT-OFF > HWS-DT-TERM-BANKRUPTCY  IF AMEREN-UE  COMPUTE HWS-DT-GAP = (WV-CURR-DATE HWS - DT-TERM-WRIT-OFF)  IF HWS-DT-GAP < 8 YEARS  SET WF-BANKRUPTCY-OK TO TRUE  END-IF  END-IF  IF IL  SET WF-BANKRUPTCY-OK TO TRUE  END-FI  END-IF    WHEN SQL-CD-NOT-FOUND  CONTINUE  WHEN OTHER  ERROR | |

**Module**

|  |  |
| --- | --- |
| Name | Is Code Attached Separately? |
| CUISO013 (CUMLA016) | No |
| Description | |
| Copy Code For Assessing Deposit – Called By Issue Connect/Disconnect | |
| **Assess Deposit for accounts with Written Off Balance:**   1. Check Bankruptcy = Yes, Require Deposit. No = Proceed to next checkpoint.   MOVE 'A3200 ' TO ERR-KY-PARAGRPH-NO.  MOVE MSG-O-CD-CO OF MSG-O-HDR-CUMSO121  TO VS-CD-CO.  EVALUATE TRUE  WHEN VS-AMEREN-UE-MO OF VS-CD-CO  MOVE WC-MO TO WS-NEW-SERVICE-STATE  WHEN VS-AMEREN-UE-IL OF VS-CD-CO OR  VS-AMEREN-UE-CIPS OF VS-CD-CO OR  VS-AMEREN-CILCO OF VS-CD-CO OR  VS-AMEREN-IP OF VS-CD-CO  MOVE WC-IL TO WS-NEW-SERVICE-STATE  END-EVALUATE  MOVE MSG-O-CD-RES-COMM OF MSG-O-HDR-CU0201N  TO VS-CD-RES-COMM.  EVALUATE TRUE  WHEN VS-TAR-RES OF VS-CD-RES-COMM  MOVE WC-RES TO WS-NEW-SERVICE-TAR  WHEN VS-TAR-COMM OF VS-CD-RES-COMM    MOVE WC-COMM TO WS-NEW-SERVICE-TAR  END-EVALUATE  MOVE 'A3250 ' TO ERR-KY-PARAGRPH-NO.  SET WF-QUOTE-DEPOSIT-NO TO TRUE.    PERFORM A3252-DECIDE-NEW-CUSTOMER  THRU A3252-EXIT.  IF WF-NEW-CUSTOMER-YES  PERFORM A3255-RETRIEVE-CUST-CR-SCORE  THRU A3255-EXIT  ELSE  PERFORM A3300-GET-BILL-ACCT-INFO  THRU A3300-EXIT  PERFORM A3350-GET-PENDING-DISCONNECT  THRU A3350-EXIT  MOVE WV-CUSTOMER-CD-CO TO VS-CD-CO  EVALUATE TRUE  WHEN VS-AMEREN-UE-MO OF VS-CD-CO  MOVE WC-MO TO WS-OLD-SERVICE-STATE  WHEN VS-AMEREN-UE-IL OF VS-CD-CO OR  VS-AMEREN-UE-CIPS OF VS-CD-CO OR  VS-AMEREN-CILCO OF VS-CD-CO OR  VS-AMEREN-IP OF VS-CD-CO  MOVE WC-IL TO WS-OLD-SERVICE-STATE  END-EVALUATE  EVALUATE TRUE  WHEN WF-PENDING-DISCONNECT-Y  ~~AND WV-CUSTOMER-CD-CO EQUALS VS-CD-CO~~  AND WS-NEW-SERVICE-STATE EQUALS WS-OLD-SERVICE-STATE  PERFORM A3380-CHK-DEPOSIT  THRU A3380-EXIT  ~~WHEN VS-AMEREN-UE-MO OF VS-CD-CO~~  ~~SET VS-WAIVE-MO-NA~~  ~~OF VS-CD-WAIVE-RSN TO TRUE~~    ~~MOVE VS-CD-WAIVE-RSN~~  ~~TO MSG-I-CD-WAIVE-RSN~~  ~~OF MSG-I-HDR-CUMDP006~~  ~~SET MSG-I-DEP-WAIVER~~  ~~OF MSG-I-CD-DEPOSIT-ACTION~~  ~~OF MSG-I-HDR-CUMCO003 TO TRUE~~  WHEN WF-PENDING-DISCONNECT-Y  ~~AND WV-CUSTOMER-CD-CO NOT EQUAL VS-CD-CO~~  AND WS-NEW-SERVICE-STATE NOT EQUAL WS-OLD-SERVICE-STATE    PERFORM A3360-CALL-EQUIFAX  THRU A3360-EXIT  WHEN WF-ACTIVE-SERVICE-YES  ~~AND WV-CUSTOMER-CD-CO NOT EQUAL VS-CD-CO~~  AND WS-NEW-SERVICE-STATE NOT EQUAL WS-OLD-SERVICE-STATE  PERFORM A3360-CALL-EQUIFAX  THRU A3360-EXIT  WHEN WF-ACTIVE-SERVICE-YES  ~~AND WV-CUSTOMER-CD-CO EQUAL VS-CD-CO~~  AND WS-NEW-SERVICE-STATE EQUALS WS-OLD-SERVICE-STATE  SET VS-DIST-WAIVE  OF VS-CD-WAIVE-RSN TO TRUE  MOVE VS-CD-WAIVE-RSN  TO MSG-I-CD-WAIVE-RSN  OF MSG-I-HDR-CUMDP006  SET MSG-I-DEP-WAIVER  OF MSG-I-CD-DEPOSIT-ACTION  OF MSG-I-HDR-CUMCO003 TO TRUE  WHEN WF-WRITTEN-OFF-YES **\*\*\* Move to the end of the EVALUATE statement**  ~~SET WF-WRITTEN-OFF~~  ~~OF WF-CONTACT-TYPE TO TRUE~~  ~~PERFORM A3340-GEN-CONTACT~~  ~~THRU A3340-EXIT~~  ~~MOVE MX-WEB-WRITTEN-OFF~~  ~~TO CLA-CD-RETURN~~  ~~OF CUCBLA01-LINKAGE~~  ~~KY-ERROR-NUM~~  ~~OF CU80TB01~~  ~~PERFORM A9700-GET-ECUST-ERROR~~  ~~THRU A9700-EXIT~~  ~~PERFORM S9800-PROCESS-ERROR~~  ~~THRU S9800-EXIT~~  PERFORM A4000-VALIDATE-DEPOSIT  THRU A4000-EXIT  WHEN OTHER  PERFORM A3360-CALL-EQUIFAX  THRU A3360-EXIT  END-EVALUATE  END-IF.  A3250-EXIT.  EXIT.  MOVE 'A3310 ' TO ERR-KY-PARAGRPH-NO.  INITIALIZE CU02TB01,  WV-CUSTOMER-CD-CO.  MOVE LA10-KY-CUST-NO  TO KY-CUST-NO OF CU02TB01.  SET VS-PEND-ACT OF VS-CD-BA-STAT TO TRUE  MOVE VS-CD-BA-STAT TO HWS-CD-BA-PENDING.  SET VS-VOIDED OF VS-CD-BA-STAT TO TRUE  MOVE VS-CD-BA-STAT TO HWS-CD-BA-VOID.  EXEC SQL  DECLARE BILL\_ACCTS\_CSR CURSOR FOR  SELECT CD\_BA\_STAT,  CD\_CO,  CD\_RES\_COMM  FROM BILL\_ACCT  WHERE KY\_CUST\_NO = :CU02TB01.KY-CUST-NO  AND CD\_BA\_STAT NOT IN (:HWS-CD-BA-PENDING,  :HWS-CD-BA-VOID)  ORDER BY DT\_BA\_OPEN DESC  END-EXEC.  MOVE 'A3320 ' TO ERR-KY-PARAGRPH-NO.  EXEC SQL  FETCH BILL\_ACCTS\_CSR  INTO :CU02TB01.CD-BA-STAT,  :CU02TB01.CD-CO,  :CU02TB01.CD-RES-COMM  END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK  IF WV-CUSTOMER-CD-CO EQUAL ZEROES  MOVE CD-CO OF CU02TB01 TO WV-CUSTOMER-CD-CO  END-IF  IF WV-CD-RES-COMM EQUAL SPACES  MOVE CD-RES-COMM OF CU02TB01 TO WV-CD-RES-COMM  END-IF  **\*\*\* NEW PARAGRAPH**  MOVE 'A4000' TO ERR-KY-PARAGRPH-NO.  PEFORM A4100-FETCH-BANKRUPT  THRU A4100-EXIT   1. Check old bill with different State requesting service = Yes, Require Deposit. No = Proceed to next checkpoint. 2. Check different Revenue Class = Yes, Require Deposit. No = Proceed to next checkpoint. 3. Check different Service Point = Yes, Require Deposit. No = Proceed to next checkpoint. 4. Check Written Off Balance > $50 = Yes, Require Deposit and Create Obligation to keep order in Held status. No = Do not require Deposit or create Obligation.     MOVE WV-CD-RES-COMM TO VS-CD-RES-COMM  EVALUATE TRUE  WHEN VS-TAR-RES OF VS-CD-RES-COMM  MOVE WC-RES TO WS-OLD-SERVICE-TAR  WHEN VS-AMEREN-UE-IL OF VS-CD-RES-COMM  MOVE WC-COMM TO WS-OLD-SERVICE-TAR  END-EVALUATE  IF WF-ASSESS-DEPOSIT-Y  AND WS-NEW-SERVICE-STATE EQUALS WS-OLD-SERVICE-STATE  AND WS-NEW-SERVICE-TAR EQUALS WS-OLD-SERVICE-TAR  PERFORM A4130-CALC-WRIT-OFF-BALANCE  THRU A4130-EXIT    \*\*\* SERVICE OBLIGATION WILL BE CREATED IN CUMSO060  IF WF-PAY-NOW-Y  SET VS-WRIT-OFF-BALANCE OF VS-CD-HOLD-REASON  TO LA10-CD-HOLD-REASON    END-IF    PERFORM A4170-ASSESS-DEPOSIT  THRU A4170-EXIT    END-IF  MOVE 'A4100' TO ERR-KY-PARAGRPH-NO.  **\*\*\* INSERT INL INE SQL**  **EXEC SQL**  SELECT COUNT (\*)  FROM BA\_CUST\_CR\_INFO  WHERE CD\_DEBTOR\_TYPE IN  ('BC07','BC09','BC11','BC12','BC13',  'FRAD','JUDG')  AND DT\_BNKCY < '9999-12-31'  AND KY\_CUST\_NO =  **END-EXEC**  MOVE SQLCODE TO SQL-CD-RETURN  EVALUATE TRUE  WHEN SQL-CD-FOUND  IF COUNT >0  PERFORM A4110-BANKRUPT-DATE  THRU A4110-EXIT  WHEN SQL-CD-NOT-FOUND  CONTINUE  WHEN OTHER  ERROR  MOVE 'A4110' TO ERR-KY-PARAGRPH-NO.  **\*\*\* INSERT INL INE SQL**  **EXEC SQL**  SELECT NVL(MAX(DT\_BNKCY),'0001-01-01')  INTO :HWS-DT-TERM-BANKRUPTCY  FROM BA\_CUST\_CR\_INFO  WHERE CD\_DEBTOR\_TYPE IN  ('BC07','BC09','BC11','BC12','BC13',  'FRAD','JUDG')  AND DT\_BNKCY < '9999-12-31'  AND KY\_CUST\_NO =  **END-EXEC**  MOVE SQLCODE TO SQL-CD-RETURN  EVALUATE TRUE  WHEN SQL-CD-FOUND  IF HWS-DT-TERM-WRIT-OFF > HWS-DT-TERM-BANKRUPTCY  IF AMEREN-UE  COMPUTE HWS-DT-GAP = (WV-CURR-DATE HWS - DT-TERM-WRIT-OFF)  IF HWS-DT-GAP < 8 YEARS  SET WF-ASSESS-DEPOSIT-Y TO TRUE  END-IF  END-IF  IF IL  SET WF-ASSESS-DEPOSIT-Y TO TRUE  END-FI  END-IF    WHEN SQL-CD-NOT-FOUND  CONTINUE  WHEN OTHER  ERROR  MOVE 'A4170' TO ERR-KY-PARAGRPH-NO.  PERFORM A3275-CALCULATE-INSTALLMENTS  THRU A3275-EXIT  SET VS-DEP-REQUIRED-OTHER OF VS-CD-WAIVE-RSN  TO TRUE  MOVE VS-CD-WAIVE-RSN TO MSG-I-CD-WAIVE-RSN  OF MSG-I-HDR-CUMDP006  SET MSG-I-DEP-QUOTE OF MSG-I-CD-DEPOSIT-ACTION  OF MSG-I-HDR-CUMCO003 TO TRUE | |

|  |  |
| --- | --- |
| Name | Is Code Attached Separately? |
| CUMSO060 | No |
| Description | |
| Issue Reconnect and Disconnect | |
| **Create Obligation:**   1. Check for Write Off Balance   MOVE 'A2300 ' TO ERR-KY-PARAGRPH-NO.    IF WF-SERV-ELE-FOUND-YES  SET WF-43-CALLED-YES TO TRUE    \*START 787581 FBUTRON.  MOVE WV-CD-CO TO VS-CD-CO  IF VS-AMEREN-IL OF VS-CD-CO  PERFORM A8145-GET-PEND-PAG-RECONNECT THRU A8145-EXIT  IF HWS-ROW-COUNT > 0  SET VS-PAG-WINTER-RECONNECT OF VS-CD-HOLD-REASON  TO TRUE  MOVE VS-CD-HOLD-REASON TO WS-CD-HOLD-REASON  MOVE CDIS-CD-SPT-TYPE OF  CDIS-SERVICE-MAINT-DAT (WA-INDEX-SPT)  TO CD-OBLG-SVC-TYPE OF CU04TB93  PERFORM A8017-INSERT-OBL THRU A8017-EXIT  END-IF  END-IF  \*END 787581.    MOVE CDIS-CD-HOLD-REASON OF CDIS-DAT-CU0919A  TO VS-CD-HOLD-REASON  IF VS-WRITE-OFF-BALANCE OF VS-CD-HOLD-REASON  MOVE CDIS-CD-HOLD-REASON OF CDIS-DAT-CU0919A  TO WS-CD-HOLD-REASON  MOVE CDIS-CD-SPT-TYPE OF  CDIS-SERVICE-MAINT-DAT (WA-INDEX-SPT)  TO CD-OBLG-SVC-TYPE OF CU04TB93  PEFORM A8110-FETCH-WRIT-OFF-BALANCE  THRU A8110-EXIT **(COPY A2176-GET-WRITTEN-OFF-AMT FROM CUMLA012)**    PERFORM A8017-INSERT-OBL THRU A8017-EXIT  END-IF  PERFORM A2320-CALL-CUMSO043  THRU A2320-EXIT  **\*\*\*\* Update Written Off Obligation with ISSU-KY-SO-NO OF ISSU-COMMON-ISSUANCE-INFO**  PERFORM A8115-UPDATE-WRIT-OFF-OBLG  THRU A8115-EXIT  \*\*\*\* Modify A8017-  IF WS-AT-WRITTEN-OFF NOT EQUAL ZERO  MOVE WS-AT-WRITTEN-OFF TO AT-CHG  OF CU09TB19  ELSE  MOVE ZEROES TO AT-CHG  OF CU09TB19.  END-IF | |

**Module**

|  |  |
| --- | --- |
| Name | Is Code Attached Separately? |
| write\_off\_oblig\_heldso.sql | No |
| Description | |
| New Unload process to void service orders and terminat Obligations on account. | |
|  | |
|  | |
| --\* REVISIONS | |
| --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* | |
| --\* REV 0 05-15-2019 MKS 1301157 C.HERON | |
| set serveroutput on size 1000000  --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  --\* Program.........: write\_off\_oblig\_heldso.sql  --\* Job.............: cs0209dip  --\* Scheduled.......: Daily  --\* Output..........: write\_off\_oblig\_heldso  --\* Date Created...: April 15, 2019  --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  --\* This plsql program unloads the OBLIGATIONS and  --\* SERV ORD ISSUE HOLD Orders  --\* and writes to External Orders file which will  --\* be processed by CUBSO209  --\*  --\* The cs0209dip will run 7 days a week. On weekdays, it will  --\* run after Download.  --\*  --\* Variables:  --\* ---------  --\*  --\*  --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  --\* REVISIONS  --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  --\* REV 0 05-15-2019 MKS 1301157 C.HERON  --\* ORIGINAL INSTALLATION.  --\*    --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  VARIABLE v\_exit\_code NUMBER;  spool /css\_reports/write\_off\_oblig\_heldso  DECLARE  PROCEDURE setProcessDates;  PROCEDURE GetWriteOffhldSo;  PROCEDURE writeEoiFile;  -- Inputs  v\_entry\_date CHAR(10);  -- Run Dates  v\_process\_date CHAR(10);  v\_sysdate DATE;  v\_dt\_archive CHAR(10);  v\_qy\_archive NUMBER;  -- SERV ORD ISSUE HOLD Table (CU09TB02)  v\_cd\_co bill\_acct.cd\_co%type;  v\_ky\_ba serv\_ord.ky\_ba%type;  v\_ky\_cust\_no serv\_ord.ky\_cust\_no%type;  v\_ky\_prem\_no serv\_ord.ky\_prem\_no%type;  v\_ky\_mtr\_bill\_grp BILL\_ACCT.KY\_MTR\_BILL\_GRP%type;  v\_dt\_create\_1 service\_obligation.dt\_create\_1%type;  v\_dt\_so\_issued serv\_ord.dt\_so\_issued%type;  v\_dt\_eff\_ele\_serv serv\_ord.dt\_eff\_ele\_serv%type;  v\_dt\_reminder serv\_ord.dt\_eff\_ele\_serv%type;  v\_dt\_expire serv\_ord.dt\_eff\_ele\_serv%type;  v\_cd\_hold\_reason service\_obligation.cd\_hold\_reason%type;  v\_at\_chg service\_obligation.at\_chg%type;  v\_obligstat varchar2(1);    -- SERVICE  -- EOI Record Layout  v\_eoi\_cd\_co VARCHAR(4);  v\_eoi\_ky\_ba VARCHAR2(10);  v\_eoi\_ky\_cust\_no VARCHAR2(9);  v\_eoi\_ky\_prem\_no VARCHAR2(9);  v\_eoi\_ky\_mtr\_bill\_grp VARCHAR2(2);  v\_eoi\_dt\_create\_1 VARCHAR2(10);  v\_eoi\_dt\_so\_issued VARCHAR2(10);  v\_eoi\_dt\_eff\_ele\_serv VARCHAR2(10);  v\_eoi\_dt\_reminder VARCHAR2(10);  v\_eoi\_dt\_expire VARCHAR2(10);  v\_eoi\_cd\_hold\_reason VARCHAR2(2);  v\_eoi\_at\_chg VARCHAR2(9);  v\_eoi\_obligstat varchar2(1);      -- Driving Cursor (SERV\_ORD\_ISSUE\_HOLD)  -- Only get rows where the CURRENT DATE <= DATE WANTED + 10 DAYS.    CURSOR so\_issue\_csr IS    SELECT C.CD\_CO  ,C.KY\_BA  ,C.KY\_CUST\_NO  ,X.KY\_PREM\_NO  ,C.ky\_mtr\_bill\_grp  ,DT\_CREATE\_1  ,DT\_SO\_ISSUED  ,X.DT\_EFF\_ELE\_SERV  ,TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 8, 'YYYY-MM-DD') "DT-REMINDER"  ,TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 10, 'YYYY-MM-DD') "DT-EXPIRE"  , X.CD\_HOLD\_REASON  ,X.AT\_CHG  ,(CASE  WHEN v\_process\_date =  TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 8, 'YYYY-MM-DD') THEN '4'  WHEN v\_process\_date >  TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 10, 'YYYY-MM-DD') THEN '5'  ELSE '0'  END) OBLIG\_STAT  FROM BILL\_ACCT C  ,( SELECT B.KY\_BA  ,C.KY\_PREM\_NO  ,C.KY\_CUST\_NO  ,B.CD\_HOLD\_REASON  ,B.DT\_CREATE\_1  ,CD\_SO\_STAT  ,DT\_SO\_ISSUED  ,DT\_EFF\_ELE\_SERV  ,DT\_SO\_PEND  ,DT\_SO\_HLD\_TO  ,DT\_SO\_CMPLT  ,AT\_CHG  FROM SERVICE\_OBLIGATION B  , SERV\_ORD C  WHERE B.KY\_SITE\_BLDG\_PREM = C.KY\_PREM\_NO  AND B.KY\_BA =C.KY\_BA  AND DT\_CREATE\_1 =DT\_SO\_ISSUED  -- AND CD\_HOLD\_REASON ='31'  AND DT\_COMPLETE = '0001-01-01'  AND CD\_SO\_STAT IN ('60')  AND DT\_SO\_CMPLT = '0001-01-01'  AND v\_process\_date >=  TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  +8, 'YYYY-MM-DD')) X  WHERE X.KY\_BA =C.KY\_BA  AND X.KY\_CUST\_NO =C.KY\_CUST\_NO    GROUP BY C.CD\_CO  ,C.Ky\_BA  ,C.KY\_CUST\_NO  ,X.KY\_PREM\_NO  ,C.ky\_mtr\_bill\_grp  ,DT\_CREATE\_1  ,DT\_SO\_ISSUED  ,X.DT\_EFF\_ELE\_SERV  ,TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 8, 'YYYY-MM-DD')  ,TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 10, 'YYYY-MM-DD')  ,X.CD\_HOLD\_REASON  ,X.AT\_CHG  ,(CASE  WHEN v\_process\_date =  TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 8, 'YYYY-MM-DD') THEN '4'  WHEN v\_process\_date >  TO\_CHAR( TO\_DATE( DT\_EFF\_ELE\_SERV,'YYYY-MM-DD')  + 10, 'YYYY-MM-DD') THEN '5'  ELSE '0'  END)  order by c.ky\_ba ;    v\_ord so\_issue\_csr%ROWTYPE;  database\_error EXCEPTION;  -- File Variables  v\_code\_location VARCHAR2(50);  v\_location VARCHAR2(24);  v\_filename VARCHAR2(50) := 'write\_off\_oblig\_heldso';  v\_open\_mode VARCHAR2(1) := 'w';  v\_my\_handle UTL\_FILE.FILE\_TYPE;  v\_file\_rec VARCHAR2(500);    -----  ---------------------------------------------------------------------  PROCEDURE setProcessDates IS  BEGIN  -- set process dates to be used  v\_code\_location := 'set Process Dates';  -- Set process date to System Date    select dt\_gregorian into v\_process\_date from dt\_const\_batch;  -- Display dates  DBMS\_OUTPUT.PUT\_LINE ('\*\*\* Process Date: ' || v\_process\_date);  END;  ----------------------------------------------------------------------  PROCEDURE GetWriteOffhldSo IS  BEGIN  LOOP  FETCH so\_issue\_csr  INTO v\_cd\_co  ,v\_ky\_ba  ,v\_ky\_cust\_no  ,v\_ky\_prem\_no  ,v\_ky\_mtr\_bill\_grp  ,v\_dt\_create\_1  ,v\_dt\_so\_issued  ,v\_dt\_eff\_ele\_serv  ,v\_dt\_reminder  ,v\_dt\_expire  ,v\_cd\_hold\_reason  ,v\_at\_chg  ,v\_obligstat ;    EXIT WHEN so\_issue\_csr%NOTFOUND;  v\_eoi\_cd\_co := lpad(v\_cd\_co,04,'0');  v\_eoi\_ky\_ba := lpad(v\_ky\_ba,10,'0');  v\_eoi\_ky\_cust\_no := lpad(v\_ky\_cust\_no,9,'0');  v\_eoi\_ky\_prem\_no := lpad(v\_ky\_prem\_no,9,'0') ;  v\_eoi\_ky\_mtr\_bill\_grp := lpad(v\_ky\_mtr\_bill\_grp,2,'0');  v\_eoi\_dt\_create\_1 := v\_dt\_create\_1 ;  v\_eoi\_dt\_so\_issued := v\_dt\_so\_issued;  v\_eoi\_dt\_eff\_ele\_serv := v\_dt\_eff\_ele\_serv;  v\_eoi\_dt\_reminder := v\_dt\_reminder;  v\_eoi\_dt\_expire := v\_dt\_expire;  v\_eoi\_cd\_hold\_reason := v\_cd\_hold\_reason;  v\_eoi\_at\_chg := lpad(v\_at\_chg,9,'0');  v\_eoi\_obligstat := v\_obligstat;    writeEoiFile;  END LOOP;  END;  ----------------------------------------------------------------------  PROCEDURE writeEoiFile IS  BEGIN  v\_code\_location := 'writeEoiFile';    -- Write EOI File  v\_file\_rec := ( v\_eoi\_cd\_co ||  v\_eoi\_ky\_ba ||  v\_eoi\_ky\_cust\_no ||  v\_eoi\_ky\_prem\_no ||  v\_eoi\_ky\_mtr\_bill\_grp ||  v\_eoi\_dt\_create\_1 ||  v\_eoi\_dt\_so\_issued ||  v\_eoi\_dt\_eff\_ele\_serv ||  v\_eoi\_dt\_reminder ||  v\_eoi\_cd\_hold\_reason ||  v\_eoi\_at\_chg ||  v\_eoi\_obligstat );  UTL\_FILE.Put\_line(v\_my\_handle, v\_file\_rec);  END;  --===========================================================  -- M A I N L I N E P R O C E S S I N G  --===========================================================  BEGIN  :v\_exit\_code := 0;  v\_location := '&1';  -- v\_location := '/css\_reports'; This is when testing local      IF v\_location IS NULL THEN  RAISE UTL\_FILE.invalid\_path;  END IF;  /\* Set Process Dates \*/  setProcessDates;    /\* Close file handle \*/  v\_code\_location := 'Close file handles';  IF UTL\_FILE.is\_open(v\_my\_handle) THEN  UTL\_FILE.fclose(v\_my\_handle);  END IF;  /\* Open file \*/  v\_code\_location := 'Open file';  v\_my\_handle := UTL\_FILE.FOPEN (v\_location, v\_filename, v\_open\_mode);  /\*open driving cursor \*/  OPEN so\_issue\_csr;  /\*Process selected orders. \*/    v\_code\_location := 'Process selected orders';    /\* Get Archive Date \*/  GetWriteOffhldSo;  /\* close driving cursor \*/  CLOSE so\_issue\_csr;    /\* Close files \*/  IF UTL\_FILE.is\_open(v\_my\_handle) THEN  UTL\_FILE.fclose(v\_my\_handle);  END IF;  EXCEPTION  -- File Exceptions  WHEN UTL\_FILE.invalid\_path THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: invalid path --> ' || v\_location);  WHEN UTL\_FILE.invalid\_mode THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: invalid mode' || v\_code\_location);  WHEN UTL\_FILE.invalid\_operation THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: invalid operation' || v\_code\_location);  WHEN UTL\_FILE.invalid\_filehandle THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: invalid file handle' || v\_code\_location);  WHEN UTL\_FILE.read\_error THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: read error' || v\_code\_location);  WHEN UTL\_FILE.write\_error THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: write error' || v\_code\_location);  WHEN UTL\_FILE.internal\_error THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('File error: internal error' || v\_code\_location);  -- Oracle errors  WHEN database\_error THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('Error at ' || trim(v\_code\_location) || ' - ' || SQLCODE  || ' : ' || SQLERRM || ' : ' );  WHEN OTHERS THEN  :v\_exit\_code := CSS\_RPT.Write\_errmsg('Error at ' || trim(v\_code\_location) || ' - ' || SQLCODE  || ' : ' || SQLERRM || ' : ' );  END;  /  spool off  EXIT :v\_exit\_code; | |
|  | |

**Module**

|  |  |
| --- | --- |
| Name | Is Code Attached Separately? |
| CUMSO209 | No |
| Description | |
| Create a new module that will evaluate if the payent received is tied to an obligation. Written-off accounts must be satisfied before the obligation will be released. | |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*(c) COPYRIGHT 1995 ACCENTURE - ALL RIGHTS RESERVED. \*  \*THIS WORK IS PROTECTED BY COPYRIGHT LAW AS AN UNPUBLISHED WORK.\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* IDENTIFICATION DIVISION \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  IDENTIFICATION DIVISION.  PROGRAM-ID. CUBSO209.  AUTHOR. CHRISTOPHER HERON.  DATE-WRITTEN. 03/25/19.  DATE-COMPILED.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROGRAM PURPOSE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* PROGRAM TITLE : CUBSO209 \*  \* \*  \* PROGRAM TEXT : THIS MODULE IS USED TO XXX \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* TYPE : BATCH EXECUTION UTILIZING RSAM WITH \*  \* SEQUENTIAL FILES. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROGRAM FILES \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* INPUTS : CU02TB01 BILL ACCOUNT \*  \* \*  \* OUTPUTS : CUCPR013 RUNSHEET REPORT \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*PROGRAM CHANGES\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\* \*\*  \*\* DATE | AUTHOR | DESCRIPTION \*\*  \*\* ----------------------------------------------------------- \*\*  \*\* 03/25/19 | CHERON | INITIAL INSTALL \*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* ENVIRONMENT DIVISION \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  ENVIRONMENT DIVISION.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* C O N F I G U R A T I O N S E C T I O N \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  CONFIGURATION SECTION.    SOURCE-COMPUTER. IBM-9021.  OBJECT-COMPUTER. IBM-9021.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* INPUT OUTPUT SECTION \*  \* \*  \* --------------------------------------------------------- \*  \* \*  \* THIS SECTION CONTAINS ALL FILE DEFINITIONS THAT ARE USED \*  \* IN THE MODULE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  INPUT-OUTPUT SECTION.  FILE-CONTROL.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* DATA DIVISION \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  DATA DIVISION.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* FILE SECTION \*  \* \*  \* --------------------------------------------------------- \*  \* \*  \* THIS SECTION CONTAINS THE FILE RECORD DEFINITIONS. \*  \* THE FILE DEFINITIONS SHOULD APPEAR IN THE SAME ORDER AS \*  \* THE SELECT/ASSIGN STATEMENTS OF THE FILE-CONTROL SECTION. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  FILE SECTION.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* WORKING STORAGE SECTION \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  WORKING-STORAGE SECTION.    01 WC-START-WORKING-STORAGE.  05 WC-BEGIN-WORKING-STORAGE PIC X(42)  VALUE '\*\*\*\*\* BEGIN WORKING STORAGE CUBSO209. \*\*\*\*'.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* DATA ACCESS CONTROL PARAMETERS (DACP) COPYBOOK \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    EXEC SQL INCLUDE AZIO006W  END-EXEC.  EXEC SQL INCLUDE CUCBSO98  END-EXEC.  01 MDTS-TABLE-DATA REDEFINES MDTS-OUTBOUND-LINKAGE.  05 MDTS-TABLE-REC PIC X(2000) OCCURS 15 TIMES.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* DATA ACCESS DATA BLOCK (DADB) \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 DADB-DAT-BLK.  05 WV-DADB-ALR OCCURS 1 TIMES PIC X(2000).    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* BATCH ABEND INTERFACE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL INCLUDE CUCBCO01  END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* BATCH ERROR REPORT WRITER INTERFACE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL INCLUDE CUCBCO02  END-EXEC.    EXEC SQL INCLUDE CUCBCO12  END-EXEC.    EXEC SQL INCLUDE WFNDERR  END-EXEC.    EXEC SQL INCLUDE AZEH001W  END-EXEC.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* INDEPENDENT CONSTANTS \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    EXEC SQL INCLUDE CUWS0010  END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* THE FOLLOWING RSAM RELATED ITEMS MUST REMAIN IN THE \*  \* PROPER SEQUENCE AND ARE MARKED -- DO NOT MOVE -- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* RSAM CONSTANT COPYBOOK - DO NOT MOVE \*  \* USED IN THE APPLICATION PROGRAM. \*  \* THIS MATCHES UP WITH CUWS0014 IN THE RSAM PROGRAM. \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL INCLUDE CUCBRS01  END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* RSAM CONTROL - DO NOT MOVE \*  \* THIS MATCHES UP WITH SAVE-RSAM-CONTROL IN THE RSAM PROGRAM. \*  \* THE SECOND 01 LEVEL OF THIS COPYBOOK MATCHES UP WITH \*  \* CUWS0021 IN THE RSAM PROGRAM. \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL INCLUDE CUCBRS02  END-EXEC.    01 RSAM-REQUIRED-AREAS.  05 RSAM-REQ-LITERALS.  10 LT-PGM-ID PIC X(8) VALUE 'CUBS0209'.  10 LT-DUMP PIC 9(2) VALUE 12.  10 LT-C1UNSO27 PIC X(8) VALUE 'C1UNSO27'.      \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* RSAM TX-CNTL-TBL - DO NOT MOVE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 RSAM-TX-CNTL-TBL PIC X(8640).    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* RSAM-FILE-IO-AREA SHOULD BE DECLARED AS AN '01' LEVEL PIC \*  \* X STRUCTURE. THE LENGTH SHOULD BE EQUAL TO THE LENGTH OF \*  \* THE LARGEST FLAT FILE USED BY &FTPGMID. EVEN IF &FTPGMID \*  \* DOES NOT USE FLAT FILES, RSAM-FILE-IO-AREA SHOULD STILL \*  \* BE DECLARED. - DO NOT MOVE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 RSAM-FILE-IO-AREA PIC X(86).    01 WS-LITERALS.  05 WS-LT-PGM-ID PIC X(08)  VALUE 'CUBSO209'.  05 LT-NUMBER-OF-FILES PIC S9(4) COMP VALUE +1.  05 LT-CD-TYP-ERR-S PIC 9(1) COMP VALUE 2.  05 LT-FIVE-EIGHT-FIVE PIC S9(3) COMP-3 VALUE +585.  03 RSAM-LITERALS.  10 LT-COMMIT-QTY PIC S9(8) COMP-3  VALUE ZEROES.  05 LT-MAX-ROLLBACKS-REACHED PIC X(50) VALUE  'MAXIMUM NUMBER OF ROLLBACKS REACHED.'.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* FILE-AREA \*  \* \*  \* THIS AREA IS REQUIRED TO DEFINE FILES TO THE CHECK POINT \*  \* RESTART PROGRAM. \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    01 FILE-AREA.  05 FILE1.  10 FILE1-DD-NM PIC X(8) VALUE 'CUBSO209'.  10 FILE1-DD-REQUEST-TYPE PIC X(6) VALUE 'OPEN '.  10 FILE1-DD-TYPE PIC X(1) VALUE 'I'.  10 FILE1-DD-RETURN-CODE PIC X(3) VALUE ' '.  10 FILE1-DD-LENGTH PIC S9(4) COMP VALUE +96.  10 FILLER PIC X(55) VALUE SPACES.  10 FILE1-VSAM-RECFM PIC X(1) VALUE SPACE.  10 FILLER PIC X(1) VALUE SPACE.  10 FILE1-RECFM PIC X(1) VALUE 'F'.  10 FILE1-DISABLE-CRLF PIC X(1) VALUE 'N'.  10 FILLER PIC X(1) VALUE SPACE.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* AZQSBEG DESIGNATES THE BEGINNING OF WORKING-STORAGE TO CHECK \*  \* POINT RESTART \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL INCLUDE AZQSBEG  END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* SET TO THE VALUE TO THE NUMBER OF SEQUENTIAL FILES BEING \*  \* CONTROLLED BY RSAM/QUICKSTART FOR RESTARTS/RECOVERIES. \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 RSAM-NUM-OF-FILES PIC S9(4) COMP VALUE +1.    EXEC SQL INCLUDE AZQSEND  END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* APPLICATION WORKING STORAGE \*  \* ----------------------------- \*  \* \*  \* THIS IS THE APPLICATION SPECIFIC WORKING STORAGE AREA. \*  \* THE APPLICATION PROGRAMMER SHOULD ADD ALL APPLICATION \*  \* SPECIFIC WORKING STORAGE FIELDS AFTER THIS POINT IN \*  \* THE PROGRAM. \*  \* \*  \* ANY EXAMPLES IN THIS AREA WHICH ARE NOT REQUIRED FOR \*  \* YOUR APPLICATION SHOULD BE DELETED. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* WORKING VARIABLES \*  \* ALL PREFIXES SHOULD BE WV- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 WV-WORKING-VARIABLES.  05 WV-TS-CURRENT PIC X(26).    01 WX-SUBSCRIPTS.  05 WX-INDEX PIC S9(4) COMP-3.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* INDEPENDENT VARIABLES \*  \* ALL PREFIXES SHOULD BE WF- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    01 WF-FLAGS.  05 WF-ROLLBACK PIC X(01).  88 WF-ROLLBACK-YES VALUE 'Y'.  88 WF-ROLLBACK-NO VALUE 'N'.  05 WF-PA-MEMO-PROCESSING PIC X(01).  88 WF-PA-MEMO-PROCESSING-Y VALUE 'Y'.  88 WF-PA-MEMO-PROCESSING-N VALUE 'N'.  05 WF-WB-MEMO-PROCESSING PIC X(01).  88 WF-WB-MEMO-PROCESSING-Y VALUE 'Y'.  88 WF-WB-MEMO-PROCESSING-N VALUE 'N'.  05 WF-FILE-SWITCH PIC X(01) VALUE SPACES.  88 WF-NO-MORE-RECORDS VALUE 'Y'.  88 WF-MORE-RECORDS VALUE 'N'.  05 VS-CD-STAT-OBLIG PIC X(1).  88 VS-OPEN VALUE '1'.  88 VS-CANCELLED VALUE '2'.  88 VS-SATISFIED VALUE '3'.  88 VS-WARNING VALUE '4'.  88 VS-EXPIRED VALUE '5'.  05 WF-INPUT-ROWS-PROC-FLAG PIC X.  88 WF-ALL-INPUT-ROWS-PROC VALUE 'Y'.  88 WF-NOT-ALL-INPUT-ROWS-PROC VALUE 'N'.  05 WF-SKIP-REC-FLAGE PIC X.  88 WF-SKIP-Y VALUE 'Y'.  88 WF-SKIP-N VALUE 'N'.    01 WF-RSAM-FLAGS.  05 FL-RESTART PIC X(01).  88 RESTART VALUE 'Y'.  88 AFTER-RESTART VALUE 'N'.  05 WF-MORE-DATA-FLAG PIC X(01).  88 WF-MORE-ROWS VALUE 'Y'.  88 WF-NO-MORE-ROWS VALUE 'N'.  05 WF-MORE-PA-DATA-FLAG PIC X(01).  88 WF-MORE-PA-ROWS VALUE 'Y'.  88 WF-NO-MORE-PA-ROWS VALUE 'N'.  01 WS-SCRATCH-AREA.  05 WS-LAST-COMMIT-BA PIC S9(10) COMP-3.  05 WS-BAD-KY-BA PIC S9(10) COMP-3.  05 WS-TX-DECODE-VALUE PIC X(15).    01 RSAM-RESTART-VARIABLES.  05 WS-SAVE-KY-MTR-EQUIP-NO PIC X(9).    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* INDEPENDENT FLAGS(SWITCHES) \*  \* ALL PREFIXES SHOULD BE WA- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    01 WA-ACCUMULATORS.  05 WA-COMMIT-CNT PIC S9(7) COMP-3.  05 WA-ROLLBACK-CNT PIC S9(7) COMP-3.  05 WA-REJECT-CTR PIC 9(6) VALUE ZERO.  05 WA-COMMIT-CTR PIC 9(6) VALUE ZERO.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* PROGRAM TABLES \*  \* --------------------------------------------------------- \*  \* ALL PREFIXES SHOULD BE WT- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 WT-CONSTANT-TABLE.  03 WT-SERVICE-ORD-TBL.  10 WT-DATA-SVC-ORD-GRP OCCURS 80 TIMES  INDEXED BY WX-CU09TB02-IDX.  15 WT-KY-SO-NO PIC S9(9) COMP-3.  15 WT-KY-BA PIC S9(10) COMP-3.  15 WT-KY-CUST-NO PIC S9(9) COMP-3.  15 WT-KY-PREM-NO PIC S9(9) COMP-3.  15 WT-AD-COMPRESSED PIC X(69).  15 WT-DT-SO-ISSUED PIC X(10).  15 WT-DT-SPEC-RQST PIC X(10).  15 WT-DT-EFF-ELE-SERV PIC X(10).  15 WT-CD-SPT-TYPE PIC X(4).  15 WT-CD-ORD-TYPE PIC X(2).  15 WT-CD-SO-STAT PIC X(2).    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* DATA LAYOUTS \*  \* --------------------------------------------------------- \*  \* INCLUDE ONE INCLUDE STATEMENT FOR EACH REQUIRED COPYBOOK. \*  \* FILES INCLUDED IN THE FILE SECTION SHOULD APPEAR IN THE \*  \* SAME ORDER AS THE FD STATEMENTS. COPY MEMBERS FOR CODES \*  \* TABLES, VSAM FILES, AND DB2 TABLES SHOULD BE INCLUDED IN \*  \* THIS AREA. INCLUDE ANY TABLE COPYBOOKS OR VARIABLES USED \*  \* TO HOLD DATA FROM EMBEDDED SQL STATEMENTS INSIDE THE SQL \*  \* DECLARE SECTION BELOW. \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL BEGIN DECLARE SECTION END-EXEC.  EXEC SQL INCLUDE CU11TB29  END-EXEC.  EXEC SQL INCLUDE CU11TB27  END-EXEC.  EXEC SQL INCLUDE CU11TB25  END-EXEC.  EXEC SQL INCLUDE CU02TB01  END-EXEC.    EXEC SQL INCLUDE CU02TB02  END-EXEC.  EXEC SQL INCLUDE CU13TB03  END-EXEC.  EXEC SQL INCLUDE CU09TB02  END-EXEC.  EXEC SQL INCLUDE CU09TB19  END-EXEC.  EXEC SQL INCLUDE CUCBSO10  END-EXEC.  01 HWS-HOST-VARIABLES.  05 HWS-CD-CO PIC S9(4) COMP-3.  05 HWS-KY-BA PIC S9(10) COMP-3.  05 HWS-KY-CUST-NO PIC S9(9) COMP-3.  05 HWS-KY-PREM-NO PIC S9(9) COMP-3.  05 HWS-DT-REMINDER PIC X(10).  05 HWS-CD-SO-STAT PIC X(2).  EXEC SQL END DECLARE SECTION END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* INDEPENDENT VARIABLES \*  \* --------------------------------------------------------- \*  \* ALL PREFIXES SHOULD BEGIN WITH WV- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 WV-VARIABLES.  05 WV-CURRENT-DATE PIC X(10).  05 WV-PROCESS-DATE PIC X(10).  05 WV-DT-GREGORIAN PIC X(10).  05 WV-BAD-KY-BA PIC 9(10).  05 WV-BAD-DATE PIC X(10).  05 WV-BAD-TIME PIC X(06).  05 WV-IN1-TIME.  10 WV-IN1-HH PIC 9(02).  10 WV-IN1-MM PIC 9(02).  10 WV-IN1-SS PIC 9(02).  05 WV-IN1-DATE PIC X(10).  05 WV-TIMESTAMP.  10 WV-DATE PIC X(10).  10 FILLER PIC X(01) VALUE '-'.  10 WV-HH PIC X(02).  10 FILLER PIC X(01) VALUE '.'.  10 WV-MIN PIC X(02).  10 FILLER PIC X(01) VALUE '.'.  10 WV-SEC PIC X(02).  10 FILLER PIC X(01) VALUE '.'.  10 WV-TS-SEQ PIC X(06).  05 WV-LOOP-COUNT PIC 9(2).  05 WV-TS-KY PIC X(26).  05 WV-KY-FORD-NO PIC 9(09).    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* D A T A L A Y O U T S \*  \* \*  \* INCLUDE ONE INCLUDE STATEMENT FOR EACH REQUIRED COPYBOOK. \*  \* FILES INCLUDED IN THE FILE SECTION SHOULD APPEAR IN THE \*  \* SAME ORDER AS THE FD STATEMENTS. COPY MEMBERS FOR CODES \*  \* TABLES, AND VSAM FILES SHOULD BE INCLUDED IN THIS AREA. \*  \* INCLUDE ANY TABLE COPYBOOKS OR VARIABLES USED TO HOLD DATA \*  \* FROM EMBEDDED SQL STATEMENTS INSIDE THE SQL DECLARE SECTION \*  \* BELOW. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  EXEC SQL BEGIN DECLARE SECTION END-EXEC.    \*\* VS-CD-REM-MAST  EXEC SQL INCLUDE CUV36031  END-EXEC.    \*\* VS-CD-REM-MAST  EXEC SQL INCLUDE CUV01864  END-EXEC.      \*\* VS-CD-ROW-STAT  EXEC SQL INCLUDE CUV31991  END-EXEC.    \*\* SQL COMMUNICATION AREA  EXEC SQL INCLUDE SQLCA  END-EXEC.  \*\* DB2-RETURN CODE  EXEC SQL INCLUDE CUWS0006  END-EXEC.  \*\* RDG\_CONS\_HDR TABLE  EXEC SQL INCLUDE CU04TB08  END-EXEC.  \*\* CD-HOLD-REASON  EXEC SQL INCLUDE CUV30676  END-EXEC.  \*\* CD-SPT-TYPE  EXEC SQL INCLUDE CUV00262  END-EXEC.  \*\* CD-FILE-STATUS  EXEC SQL INCLUDE CUV43765  END-EXEC.  \*\* CD-STAT  EXEC SQL INCLUDE CUV03774  END-EXEC.    \*\* CD-PREF-TYPEUS  EXEC SQL INCLUDE CUV43759  END-EXEC.  \*\* DATE MODULE CUMDT002  EXEC SQL INCLUDE CUCBDT02  END-EXEC.  EXEC SQL INCLUDE CUCBEM19  END-EXEC.    \*\* CUTSTAMP  EXEC SQL INCLUDE CUWSTM02  END-EXEC.  \*\* CD-BATCH-ABEND-MSG-CODES  EXEC SQL INCLUDE CUCDBABD  END-EXEC.  \*\* CUMAR130-RECORD  EXEC SQL INCLUDE CUCBSO37  END-EXEC.  \*\* RPT-COMMON-MODULE-REC  EXEC SQL INCLUDE CUCBCO18  END-EXEC.  \*\* CUSTOMER CONTACT MODULE CUMCC001  EXEC SQL INCLUDE CUCBCC01  END-EXEC.  \*\* EXTERNAL-ORDERS-REC.  EXEC SQL INCLUDE CUCBSO25  END-EXEC.  \*\* LINKAGE COPYBOOK FOR CUMSI151  01 ACS-ICS-COMMAREA.  EXEC SQL INCLUDE CUCBSI02  END-EXEC.  \*\* CODE-PARM-BLOCK FOR DECODE COMMONE MODULE  EXEC SQL  INCLUDE WAPICODE  END-EXEC.  \*\* LT-WRITE-ERROR  EXEC SQL INCLUDE CUCBERLT  END-EXEC.          EXEC SQL END DECLARE SECTION END-EXEC.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* C O D E S T A B L E S \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* INCLUDE ANY OTHER COPYBOOKS WHICH MUST BE \*  \* RESTORED BY RSAM. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 LT-IO-NAMES.  05 LT-CIS00262 PIC X(8) VALUE 'CIS00262'.  05 LT-CIMFN000 PIC X(8) VALUE 'CIMFN000'.    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* INDEPENDENT CONSTANTS \*  \* ALL PREFIXES SHOULD BE WC- \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 LT-MODULE-NAMES.  03 LT-CUMSO114 PIC X(8) VALUE 'CUMSO114'.  03 LT-CUMCO017 PIC X(8) VALUE 'CUMCO017'.  03 LT-CUMSO540 PIC X(8) VALUE 'CUMSO540'.  03 LT-CUMEM019 PIC X(8) VALUE 'CUMEM019'.    01 WC-CONSTANTS.  05 WC-LT-GET-TIME-ERR PIC X(23)  VALUE 'ERROR GETTING TIMESTAMP'.  05 WC-BAD-INPUT-PARM PIC X(38)  VALUE 'INVALID PARM FROM INPUT FILE'.  05 WC-SYSTEM-GENERATED-VOID PIC X(69)  VALUE  'SYSTEM GENERATED VOID BASED ON CUSTOMER PAYMENT'.  03 WC-COMMIT-QTY PIC S9(8) COMP-3  VALUE ZEROES.  03 WC-REJECT-LIMIT PIC S9(4) COMP-3  VALUE ZEROES.    03 WC-CU09TB19 PIC X(08) VALUE 'CU09TB19'.  03 WC-NAME-OF-THIS-SERVICE PIC X(08) VALUE 'CUBSO209'.  03 WC-SERV-ADDRESS PIC X(14) VALUE  'ServiceAddress'.  03 WC-UPDATE PIC X(06) VALUE 'UPDATE'.    01 WC-ERROR-MESSAGE.  03 WC-MAX PIC 9(2) VALUE 16.  03 WC-SQL-PROC-ERR PIC S9(5) COMP-3 VALUE 11183.  03 WC-CU09TB02-FETCH-ERR.  05 FILLER PIC X(44) VALUE  'ERROR FETCHING A ROW ON CU09TB02'.  05 FILLER PIC X(12) VALUE  ' FOR KY-BA: '.  05 WC-KY-BA PIC 9(10).  05 FILLER PIC X(62) VALUE SPACES.  03 WC-0919-ERROR.  10 FILLER PIC X(40)  VALUE 'ERROR FETCHING FROM CU09TB19, ACCOUNT : '.  10 ERR-KY-BA-0919 PIC 9(10).  03 WC-DTL-LINE.  05 FILLER PIC X(06) VALUE 'KY-BA:'.  05 WV-DTL-ACCTNO PIC 9(10).  05 FILLER PIC X(13) VALUE  ' AT-PAYMENT:'.  05 WV-DTL-AT-PAYMENT PIC Z,ZZZ,ZZ9.99.  05 FILLER PIC X(18) VALUE  ' TS-TRANSACTION: '.  05 WV-DTL-TS-TRANSACTION PIC X(26).  05 FILLER PIC X(10) VALUE  ' REASON: '.  05 WV-DTL-REASON PIC X(22).  05 FILLER PIC X(01) VALUE SPACE.  05 WV-DTL-SOURCE PIC X(08).  05 FILLER PIC X(03) VALUE SPACES.    LINKAGE SECTION.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* LINKAGE SECTION \*  \* \*  \* THIS AREA IS USED WHEN A PROGRAM IS RECEIVING DATA FROM \*  \* EITHER A CALLING PROGRAM OR A 'PARM' ON THE EXEC CARD \*  \* OF THE EXECUTION JCL. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A JOB PARAMETER FROM THE JCL STREAM SHOULD BE PASSED INTO \*  \* THE DATA STRUCTURE JCL-PARM. RSAM USES THIS TO ACCESS PROGRAM \*  \* AND VERSION NUMBER. THE VALUE OF PARM-LENGTH IS TESTED AND \*  \* IF EQUAL TO 0 (NO PARM PASSED) A VALUE OF 1 IS MOVED TO \*  \* THE FIELD PARM-DATA. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  01 JCL-PARM.  05 PARM-LENGTH PIC 9(3) COMP.  05 PARM-DATA PIC X(1).  05 PARM-FUNC-ID PIC X(2).  05 PARM-ERROR PIC 9(5).    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* P R O C E D U R E D I V I S I O N \*  \* -------------------------------------------- \*  \* \*  \* THE PROCEDURE DIVISION IS DIVIDED INTO TWO SEPARATE \*  \* PARTS. THE FIRST PART IS SHELL CODE THAT SHOULD BE \*  \* STANDARD FOR ALL BATCH PROGRAMS USING RSAM WITH \*  \* SEQUENTIAL FILES. THESE PARAGRAPHS \*  \* BEGIN WITH THE LETTER "S" AND ARE COPIED IN WITH \*  \* COPYBOOK MEMBER 'AZBSH101' OR 'AZBSH102' DEPENDING \*  \* ON WHETHER THE PROGRAM IS A MAIN MODULE OR SUB-MODULE. \*  \* \*  \* THE SECOND IS APPLICATION SPECIFIC AND SHOULD BE SUPPLIED\*  \* OR MODIFIED BY THE APPLICATION PROGRAM. EACH OF THESE \*  \* PARAGRAPHS MUST BEGIN WITH THE LETTER "A". \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  PROCEDURE DIVISION USING JCL-PARM.    EXEC SQL INCLUDE AZBSH101  END-EXEC.    EXEC SQL INCLUDE CUTSTAMP  END-EXEC.    A0500-HOUSEKEEPING.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 0 5 0 0 - H O U S E K E E P I N G \*  \* ------------------------------- \*  \* \*  \* ANY INITIALIZATION OF APPLICATION SPECIFIC WORKING \*  \* STORAGE FIELDS AND STATUS INDICATORS WILL BE HANDLED \*  \* HERE. ANY INITIAL FILE OPENING AND READS WILL ALSO \*  \* BE PERFORMED IN HOUSEKEEPING. \*  \* \*  \* CALLS: A9000-RSAM-OPEN \*  \* A9020-RSAM-COMMIT \*  \* A9100-READ-RECORD \*  \* A0510-GET-CURRENT-DATE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A0500' TO ERR-KY-PARAGRPH-NO.    INITIALIZE ERR-ERROR-RECORD  WX-INDEX  CU02TB01  CU02TB02  CU09TB19  SQLCODE.  SET WF-ROLLBACK-NO TO TRUE.  SET WF-NOT-ALL-INPUT-ROWS-PROC TO TRUE.  SET WF-MORE-ROWS TO TRUE.    MOVE RSAM-KY-CHK-POINT TO WC-REJECT-LIMIT  WC-COMMIT-QTY.    IF RESTART  DISPLAY 'EXECUTION RESTARTED BY RSAM'  ELSE  SET  -ROWS TO TRUE  MOVE LT-OPEN-CD TO RSAM-KY-OPER-CD  MOVE ZEROES TO WS-LAST-COMMIT-BA  INITIALIZE RSAM-RESTART-VARIABLES  PERFORM A9000-RSAM-OPEN  THRU A9000-EXIT  PERFORM A9020-RSAM-COMMIT  THRU A9020-EXIT  END-IF.  MOVE RSAM-KY-CHK-POINT TO LT-COMMIT-QTY.  INITIALIZE WA-COMMIT-CTR.  PERFORM A9100-READ-RECORD  THRU A9100-EXIT.    PERFORM A0510-GET-CURRENT-DATE  THRU A0510-EXIT.    A0500-EXIT.  EXIT.      A0510-GET-CURRENT-DATE.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 0 5 1 0 - G E T - C U R R E N T - D A T E \*  \* ---------------------------------------------------- \*  \* THIS PARAGRAPH GETS THE CURRENT TIMESTAMP. \*  \* \*  \* PERFORMED BY: A1200-REMV-MASTER \*  \* \*  \* PERFORMS: S8000-GET-TIMESTAMP \*  \* A9400-RSAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A0510' TO ERR-KY-PARAGRPH-NO.    PERFORM S8000-GET-TIMESTAMP  THRU S8000-EXIT.    IF TIMESTAMP-OK  MOVE CURRENT-TIMESTAMP TO WV-TS-CURRENT  MOVE CURRENT-DT TO WV-CURRENT-DATE  ELSE  MOVE WC-LT-GET-TIME-ERR TO ERR-TX-RMKS-128  MOVE ERR-CD-SYS-RTRN TO ABD-CD-SYS-RTRN  MOVE ERR-KY-PGM-ID TO ABD-KY-PGM-ID  MOVE ERR-KY-PARAGRPH-NO TO ABD-KY-PARAGRPH-NO  PERFORM A9400-RSAM-ABEND  THRU A9400-EXIT  END-IF.    A0510-EXIT.  EXIT.      A1000-APPLICATION-PROCESS.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 1 0 0 0 - A P P L I C A T I O N P R O C E S S \*  \* ---------------------------------------------------- \*  \* DEPENDING ON THE VS-CD-REM-MAST OF THE FIRST RECORD ON THE \*  \* UNLOAD FILE, ONE OF TWO THINGS WILL HAPPEN IN THIS \*  \* PARAGRAPH. EITHER THE READS WILL BE POSTED OR THE MASTER \*  \* WILL BE REMOVED. THE UNLOAD WILL CONTAIN VS-CD-REM-MAST \*  \* OF ONLY ONE TYPE WHICH IS WHY THIS EVALUATION OF \*  \* VS-CD-REM-MAST IS ONLY DONE ONCE. \*  \* \*  \* CALLS: A2000-PROC-ALL-INPUT-RECS \*  \* A9400-RSAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A1000' TO ERR-KY-PARAGRPH-NO.  MOVE PARM-FUNC-ID TO CD-FUNCTION-ID.  EVALUATE TRUE  WHEN FUNC-01  PERFORM A2000-PROC-ALL-INPUT-RECS  THRU A2000-EXIT  UNTIL WF-ALL-INPUT-ROWS-PROC    WHEN WF-ALL-INPUT-ROWS-PROC  CONTINUE    WHEN OTHER  \*C.HERON FILE NAME  MOVE LT-C1UNSO27 TO ERR-NM-FILE  MOVE WC-BAD-INPUT-PARM TO ERR-AR-TYP-ACCESS    PERFORM A9400-RSAM-ABEND  THRU A9400-EXIT    END-EVALUATE.    A1000-EXIT.  EXIT.  A1100-POST-READS.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 1 1 0 0 - P O S T - R E A D S \*  \* ------------------------------- \*  \* THIS PARAGRAPH CHECKS TO SEE IF THE CURRENT RECORD BEING \*  \* PROCESSED MATCHES THE ONE THAT CAUSED A ROLLBACK. IF SO, \*  \* IT WILL BE SKIPPED. \*  \* \*  \* THEN, LOGIC CHECKS TO SEE IF A 'F' ROW (VS-FINAL-INDX- \*  \* I-OR-R OF CD-RDG-SRCE) NEEDS TO BE ADDED OR NOT. \*  \* \*  \* \*  \* THIS PARAGRAPH HANDLES THREE DIFFERENT SCENARIOS OF THE \*  \* REMOVAL PROCESS. \*  \* FUNC 1. MASTER CURRENTLY ACTIVE: \*  \* IF THIS IS THE CASE, THIS PARAGRAPH PUTS A \*  \* FINAL READY TO BILL ROW FOR THE MASTER. \*  \* \*  \* FUNC 2. MASTER IS INACTIVE AND BILLED: \*  \* INACTIVES THE RELATIONSHIP ROW ON THE RELATION-\*  \* SHIP TABLE. THEN, THE MASTER IS SET TO BE \*  \* REMOVED. \*  \* \*  \* FUNC 3. MASTER IS INACTIVE AND UN-BILLED: \*  \* SET CD-REM-MAST TO VS-DESTROY (03) \*  \* THIS WILL CAUSE THE REMOVAL PROCESS OF THE \*  \* MASTER TO BE PUT ON HOLD UNTIL THE FINAL \*  \* MASTER READING BILLS. THEN, THE MASTER IS \*  \* SET UP TO BE REMOVED. \*  \* \*  \* \*  \* \*  \* CALLED BY: XXX \*  \* \*  \* CALLS: XXX \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A1100' TO ERR-KY-PARAGRPH-NO.      A1100-EXIT.  EXIT.    A2000-PROC-ALL-INPUT-RECS.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 0 0 0 - P R O C - A L L - I N P U T - R E C S \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH TRIGGERS THE PROCESS OBLIGATION REVIEW \*  \* \*  \* CALLED FROM: A1000-APPLICATION-PROCESS \*  \* \*  \* CALLS: A2010-FORMAT-INPUT-FILE \*  \* A2100-PROCESS-OBLIG-REVIEW \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2000' TO ERR-KY-PARAGRPH-NO.    PERFORM A2010-FORMAT-INPUT-FILE  THRU A2010-EXIT.    PERFORM A2012-ACCOUNT-INFO  THRU A2012-EXIT.    PERFORM A2100-PROCESS-OBLIG-REVIEW  THRU A2100-EXIT.    A2000-EXIT.  EXIT.  A2010-FORMAT-INPUT-FILE.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 0 1 0 - F O R M A T - I N P U T - F I L E \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH FORMATS INPUT FILE \*  \* \*  \* CALLED FROM: A2000-PROC-ALL-INPUT-RECS \*  \* \*  \* CALLS: \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2100' TO ERR-KY-PARAGRPH-NO.  INITIALIZE HWS-HOST-VARIABLES.    MOVE IN-CD-CO TO HWS-CD-CO.  MOVE IN-KY-BA TO HWS-KY-BA.  MOVE IN-KY-CUST-NO TO HWS-KY-CUST-NO.  MOVE IN-KY-PREM-NO TO HWS-KY-PREM-NO.  MOVE IN-CD-STAT-OBLIG TO VS-CD-STAT-OBLIG.    A2010-EXIT.  EXIT.    A2012-ACCOUNT-INFO.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 0 1 2 - A C C O U N T - I N F O \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH FORMATS INPUT FILE \*  \* \*  \* CALLED FROM: A2000-PROC-ALL-INPUT-RECS \*  \* \*  \* CALLS: \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2012' TO ERR-KY-PARAGRPH-NO.  PERFORM A8005-GET-PREM-STR-ADDR  THRU A8005-EXIT.        A2012-EXIT.  EXIT.  A2100-PROCESS-OBLIG-REVIEW.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 1 0 0 - P R O C E S S - O B L I G A - R E V I E W \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH EVALUATES THE OBLIGATION STATUS AND SENDS \*  \* RELEVANT MESSAGE NOTIFICATION. \*  \* \*  \* CALLED FROM: A2000-PROCESS-OBLIG-SCHED-REVW \*  \* \*  \* CALLS: A8100-TERMINATE-OBLIGATION \*  \* A2200-VOID-SERVICE-ORDER \*  \* A2300-MESSAGE-NOTIFICATION \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2100' TO ERR-KY-PARAGRPH-NO.  EVALUATE TRUE    WHEN VS-WARNING    SET VS-WRITE-OFF-CONN-REMINDER  OF VS-KY-EMAIL-TYPE-ID TO TRUE    PERFORM A2110-PROCESS-WARNING-MESG  THRU A2110-EXIT    WHEN VS-EXPIRED    SET VS-WRITE-OFF-CONN-CANCEL  OF VS-KY-EMAIL-TYPE-ID TO TRUE    PERFORM A8100-TERMINATE-OBLIGATION  THRU A8100-EXIT  PERFORM A2200-VOID-SERVICE-ORDER  THRU A2200-EXIT    END-EVALUATE.  PERFORM A2300-MESSAGE-NOTIFICATION  THRU A2300-EXIT.    A2100-EXIT.  EXIT.    A2110-PROCESS-WARNING-MESG.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 1 1 0 - P R O C E S S - W A R N I N G - M E S G \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH VOIDS THE SERVICE ORDER VIA CUMAR130. \*  \* \*  \* CALLED FROM: A2100-PROCESS-OBLIG-REVIEW \*  \* \*  \* CALLS: A2220-RETRIVE-CONN-ORD \*  \* A3000-VOID-CONNECT-ORDER \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2110' TO ERR-KY-PARAGRPH-NO.    PERFORM A2220-RETRIVE-CONN-ORD  THRU A2220-EXIT.    A2110-EXIT.  EXIT.  A2200-VOID-SERVICE-ORDER.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 2 0 0 - V O I D - S E R V I C E - O R D E R \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH VOIDS THE SERVICE ORDER VIA CUMAR130. \*  \* \*  \* CALLED FROM: A2100-PROCESS-OBLIG-REVIEW \*  \* \*  \* CALLS: A2220-RETRIVE-CONN-ORD \*  \* A3000-VOID-CONNECT-ORDER \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2200' TO ERR-KY-PARAGRPH-NO.  PERFORM A2220-RETRIVE-CONN-ORD  THRU A2220-EXIT.  PERFORM A3000-VOID-CONNECT-ORDER  THRU A3000-EXIT VARYING WX-CU09TB02-IDX  FROM LT-ONE-B BY LT-ONE-B  UNTIL WT-KY-SO-NO(WX-CU09TB02-IDX) EQUAL ZEROS .  A2200-EXIT.  EXIT.  A2220-RETRIVE-CONN-ORD.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 2 2 0 - R E T R I E V E - C O N N - O R D \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH RETRIEVES CONNECTION ORDER \*  \* \*  \* CALLED FROM: A2200-VOID-SERVICE-ORDER \*  \* \*  \* CALLS: A8000-DECL-HLD-CONN-SERV-ORD \*  \* A8001-FETCH-HLD-CONN-SERV-REC \*  \* A8002-CLOSE-CONN-SERV-ORD-CSR \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2220' TO ERR-KY-PARAGRPH-NO.  PERFORM A8000-DECL-HLD-CONN-SERV-ORD  THRU A8000-EXIT.  PERFORM A8001-FETCH-HLD-CONN-SERV-REC  THRU A8001-EXIT VARYING WX-CU09TB02-IDX  FROM LT-ONE-B BY LT-ONE-B  UNTIL WF-NO-MORE-ROWS.    PERFORM A8002-CLOSE-CONN-SERV-ORD-CSR  THRU A8002-EXIT.    A2220-EXIT.  EXIT.    A2300-MESSAGE-NOTIFICATION.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 3 0 0 - M E S S A G E N O T I F I C A T I O N \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH TRIGGERS THE SEND DIRECT PAY EMAIL AND SENDS \*  \* CONTACT MESSAGE FOR CANCELLED OBLIGATIONS. \*  \* \*  \* CALLED FROM: A2100-PROCESS-OBLIG-REVIEW \*  \* \*  \* CALLS: A2400-SEND-MESSAGE-EMAIL \*  \* A3100-CALL-CUMCC001-CONTACT \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2300' TO ERR-KY-PARAGRPH-NO.  PERFORM A2400-SEND-MESSAGE-EMAIL  THRU A2400-EXIT.  EVALUATE TRUE  WHEN VS-CANCELLED  PERFORM A3100-CALL-CUMCC001-CONTACT  THRU A3100-EXIT  WHEN OTHER  CONTINUE  END-EVALUATE.  A2300-EXIT.  EXIT.    A2400-SEND-MESSAGE-EMAIL.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 4 0 0 -SEND-MESSAGE-EMAIL \*  \* ----------------------------------------------------------- \*  \* THIS PARAGRAPH ISSUES EMAILS FOR CSS\_EMAIL TABLE AND \*  \* CSS\_EMAIL\_TEXT FOR DIRECT PAY \*  \* \*  \* CALLED FROM: A2300-MESSAGE-NOTIFICATION \*  \* \*  \* CALLS: A2420-FORMAT-EMAIL-VARIABLES \*  \* LT-CUMEM019 \*  \* S9800-PROCESS-ERROR \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2400' TO ERR-KY-PARAGRPH-NO.    INITIALIZE EMLB-EBILL-EMAIL-INTERFACE.  MOVE WS-LT-PGM-ID TO EMLB-KY-USER-ID.  MOVE IN-KY-BA TO EMLB-KY-BA.  MOVE IN-CD-CO TO EMLB-CD-CO.  MOVE IN-KY-CUST-NO TO EMLB-KY-CUST-NO.  MOVE IN-KY-PREM-NO TO EMLB-KY-PREM-NO.  MOVE VS-KY-EMAIL-TYPE-ID TO EMLB-KY-EMAIL-TYPE-ID.  MOVE LT-ONE-B  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB07-INFO(LT-ONE-B).    SET VS-TO-ADDRESS OF VS-CD-RECIPIENT-TYPE TO TRUE.    MOVE VS-CD-RECIPIENT-TYPE  TO EMLB-CD-RECIPIENT-TYPE(LT-ONE-B).  PERFORM A2420-FORMAT-EMAIL-VARIABLES  THRU A2420-EXIT.    MOVE WC-SERV-ADDRESS  TO EMLB-TX-VALUE-DESC OF EMLB-CU19TB06-INFO(LT-ONE-D).    MOVE AD-COMPRESSED OF CU09TB02  TO EMLB-TX-VALUE OF EMLB-CU19TB06-INFO(LT-ONE-D).    MOVE VS-KY-EMAIL-TYPE-ID TO EMLB-KY-EMAIL-TYPE-ID.      MOVE SPACES  TO EMLB-TX-EMAIL-AD OF EMLB-CU19TB07-INFO(LT-ONE-D).  SET VS-TO-ADDRESS OF VS-CD-RECIPIENT-TYPE  TO TRUE.  MOVE VS-CD-RECIPIENT-TYPE  TO EMLB-CD-RECIPIENT-TYPE OF EMLB-CU19TB07-INFO(LT-ONE-D).  CALL LT-CUMEM019 USING EMLB-EBILL-EMAIL-INTERFACE,  ERR-ERROR-RECORD.    IF ERR-CD-SYS-RTRN NOT EQUAL ZEROES  PERFORM A9200-DETERMINE-ROLLBACK  THRU A9200-EXIT  END-IF.    A2400-EXIT.  EXIT.  A2420-FORMAT-EMAIL-VARIABLES.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 4 2 0 - F O R M A T - E M A I L - V A R I A B L E S \*  \* ----------------------------------------------------------- \*  \* THIS PARAGRAPH WILL FORMAT THE VARIABLE DATA NEEDED FOR THE \*  \* EMAIL. \*  \* \*  \* CALLED FROM: A2400-SEND-MESSAGE-EMAIL \*  \* \*  \* CALLS: A2440-FORMAT-SRVC-PT \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2420' TO ERR-KY-PARAGRPH-NO.        \* 1 Bill Account Number    ADD LT-ONE-B TO WX-INDEX.  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX).  MOVE 'BillAccountNumber'  TO EMLB-TX-VALUE-DESC(WX-INDEX).  MOVE EMLB-KY-BA  TO EMLB-TX-VALUE(WX-INDEX).    \* 4 Service House Number    ADD LT-ONE-B TO WX-INDEX.  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX).  MOVE 'ServiceHouseNumber'  TO EMLB-TX-VALUE-DESC(WX-INDEX).  MOVE AD-LN OF CU02TB02  TO EMLB-TX-VALUE(WX-INDEX).          EVALUATE TRUE    WHEN VS-WRITE-OFF-CONN-REMINDER OF VS-KY-EMAIL-TYPE-ID    \* 3 Date Expire    ADD LT-ONE-B TO WX-INDEX  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX)  MOVE 'DateExpire'  TO EMLB-TX-VALUE-DESC(WX-INDEX)  MOVE IN-DT-REMINDER  TO EMLB-TX-VALUE(WX-INDEX)    WHEN VS-WRITE-OFF-CONN-CANCEL OF VS-KY-EMAIL-TYPE-ID  CONTINUE      WHEN OTHER  CONTINUE    END-EVALUATE.    PERFORM A2440-FORMAT-SRVC-PT  THRU A2440-EXIT VARYING WX-CU09TB02-IDX  FROM LT-ONE-B BY LT-ONE-B  UNTIL WT-KY-SO-NO(WX-CU09TB02-IDX) EQUAL ZEROS.    A2420-EXIT.  EXIT.    A2440-FORMAT-SRVC-PT.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 4 4 0 - F O R M A T - S R V C - P T \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH FORMATS SERVICE POINT \*  \* \*  \* CALLED FROM: A2420-FORMAT-EMAIL-VARIABLES \*  \* \*  \* CALLS: A2460-DECODE-SRVC-TYPE \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2440' TO ERR-KY-PARAGRPH-NO.      PERFORM A2460-DECODE-SRVC-TYPE  THRU A2460-EXIT.    \* 2 Service Type    ADD LT-ONE-B TO WX-INDEX.  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX).  MOVE 'ServiceType'  TO EMLB-TX-VALUE-DESC(WX-INDEX).  MOVE WS-TX-DECODE-VALUE  TO EMLB-TX-VALUE(WX-INDEX).  MOVE WT-CD-SPT-TYPE(WX-CU09TB02-IDX)  TO VS-CD-SPT-TYPE.  EVALUATE TRUE  WHEN VS-ELE OF VS-CD-SPT-TYPE    \* 6 Date Wanted Electric 1    ADD LT-ONE-B TO WX-INDEX  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX)  MOVE 'DateWantedElectric1'  TO EMLB-TX-VALUE-DESC(WX-INDEX)  MOVE DT-EFF-ELE-SERV OF CU09TB02  TO EMLB-TX-VALUE(WX-INDEX)    WHEN VS-GAS OF VS-CD-SPT-TYPE    \* 5 Date Wanted Gas 1    ADD LT-ONE-B TO WX-INDEX  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX)  MOVE 'DateWantedGas1'  TO EMLB-TX-VALUE-DESC(WX-INDEX)  MOVE DT-EFF-ELE-SERV OF CU09TB02  TO EMLB-TX-VALUE(WX-INDEX)  WHEN VS-PAL-ELE OF VS-CD-SPT-TYPE    \* 7 Date Wanted Lighting1    ADD LT-ONE-B TO WX-INDEX  MOVE WX-INDEX  TO EMLB-KY-SEQ-NO OF EMLB-CU19TB06-INFO(WX-INDEX)  MOVE 'DateWantedLighting1 '  TO EMLB-TX-VALUE-DESC(WX-INDEX)  MOVE DT-EFF-ELE-SERV OF CU09TB02  TO EMLB-TX-VALUE(WX-INDEX)    END-EVALUATE.  A2440-EXIT.  EXIT.  A2460-DECODE-SRVC-TYPE.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 2 4 6 0 - D E C O D E - S R V C - T Y P E \*  \* ---------------------------------------------------- \*  \* THIS PARAGRAPH DECODES THE SERVICE TYPE \*  \* \*  \* CALLED FROM: A2440-FORMAT-SRVC-PT \*  \* \*  \* CALLS: LT-CIMFN000 \*  \* S9999-PROGRAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A2460' TO ERR-KY-PARAGRPH-NO.  INITIALIZE WS-TX-DECODE-VALUE  CODE-PARM-BLOCK.  MOVE WT-CD-SPT-TYPE(WX-CU09TB02-IDX) TO CODE-CTB-USER-KEY.  MOVE LT-CIS00262 TO CODE-CTB-ID.    SET CODE-GET-DECODE OF CODE-FUNCTION-CODE  TO TRUE.  MOVE LT-ONE-B TO CODE-NUM-REC-REQUESTED.  MOVE ZEROES TO CODE-KEY-LENGTH.  MOVE ZEROES TO CODE-DATA-LENGTH.    CALL LT-CIMFN000 USING CODE-PARM-BLOCK  FND-ERROR-BLOCK  WS-TX-DECODE-VALUE.  IF CODE-RETURN-OK  CONTINUE  ELSE  MOVE ERR-KY-PARAGRPH-NO TO ABD-KY-PARAGRPH-NO  MOVE LT-WRITE-ERROR TO ERR-CD-ERR-ACT  MOVE LT-SPECIAL-ERROR TO ERR-CD-TYPE-ERR  MOVE LT-CIS00262 TO ERR-NM-FILE  MOVE CODE-RETURN-CODE TO ERR-CD-SYS-RTRN  MOVE LT-DUMP TO ABD-CD-SYS-RTRN  MOVE CD-ERROR-DECODING-BUS-CODE  TO ABD-KY-ABND-MSG-NO  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT  END-IF.  A2460-EXIT.  EXIT.    A3000-VOID-CONNECT-ORDER.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 3 0 0 0 - V O I D - D I S C O N N E C T - O R D E R \*  \* ---------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH CONTROLS THE PROCESSING FOR THE VOIDING OF \*  \* A DISCONNECT SERVICE ORDER. \*  \* THROUGH THE CALLING OF THE COMMON SERVICE ORDER VOID MOD: \*  \* CUMSO114. \*  \* \*  \* CALLED BY: A2200-VOID-SERVICE-ORDER \*  \* \*  \* CALLS: CUMSO114 TO VOID THE DISCONNECT SO. \*  \* A9400-RSAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A3000' TO ERR-KY-PARAGRPH-NO.    INITIALIZE CCAV-LINK-MAINT-REC.    MOVE IN-KY-BA  TO CCAV-KY-BA.  MOVE ZEROS  TO CCAV-KY-TERM-ID.  MOVE ZEROS  TO CCAV-KY-CONV-ID.  MOVE WT-KY-SO-NO(WX-CU09TB02-IDX)  TO CCAV-KY-SO-NO.  MOVE WC-SYSTEM-GENERATED-VOID  TO CCAV-TX-REMARKS-GENERIC.  MOVE IN-KY-CUST-NO  TO CCAV-KY-CUST-NO.  MOVE IN-KY-PREM-NO  TO CCAV-KY-PREM-NO.  MOVE IN-DT-EFF-ELE-SERV  TO CCAV-DT-EFF-ELE-SERV.  MOVE LT-DB2-DEFAULT-DATE  TO CCAV-DT-EFF-CM-SERV.  MOVE WT-DT-SPEC-RQST(WX-CU09TB02-IDX)  TO CCAV-DT-SPEC-RQST.  MOVE WT-CD-ORD-TYPE(WX-CU09TB02-IDX)  TO CCAV-CD-ORD-TYPE.  MOVE WT-CD-SO-STAT(WX-CU09TB02-IDX)  TO CCAV-CD-SO-STAT.  MOVE KY-USER-ID  TO CCAV-KY-USER-ID.    CALL LT-CUMSO114 USING CCAV-LINK-MAINT-REC  ERR-ERROR-RECORD.  IF ERR-CD-SYS-RTRN NOT EQUAL ZERO    PERFORM A9400-RSAM-ABEND  THRU A9400-EXIT  END-IF.    A3000-EXIT.  EXIT.    A3100-CALL-CUMCC001-CONTACT.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 3 1 0 0 - C A L L - C U M C C 0 0 1 - C O N T A C T \*  \* ----------------------------------------------------------- \*  \* THIS PARAGRAPH CALLS THE CUMCC001 TO CREATE CONTACT MSG \*  \* \*  \* CALLED FROM: A2300-MESSAGE-NOTIFICATION \*  \* \*  \* CALLS: LT-CUMCC001 \*  \* S9900-HANDLE-PROCESSING-ERROR \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A3100' TO ERR-KY-PARAGRPH-NO.  A3100-EXIT.  EXIT.  A8000-DECL-HLD-CONN-SERV-ORD.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 8 0 0 0 - D E C L - H L D - C O N N - S V C E \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH DECLINES HELD CONNECTION SERVICE. \*  \* \*  \* CALLED FROM: A2220-RETRIVE-CONN-ORD \*  \* \*  \* CALLS: PERFORM S9999-PROGRAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A8000' TO ERR-KY-PARAGRPH-NO.  INITIALIZE SQLCODE.    SET VS-HELD-ORD-PRCSG OF VS-CD-SO-STAT TO TRUE.  MOVE VS-CD-SO-STAT TO HWS-CD-SO-STAT.    EXEC SQL    DECLARE SERV\_ORD\_CSR CURSOR WITH HOLD FOR  SELECT KY\_SO\_NO  ,KY\_BA  ,KY\_CUST\_NO  ,KY\_PREM\_NO  ,AD\_COMPRESSED  ,dt\_so\_issued  ,DT\_SPEC\_RQST  ,DT\_EFF\_ELE\_SERV  ,CD\_SPT\_TYPE  ,CD\_ORD\_TYPE  ,CD\_SO\_STAT    FROM SERV\_ORD  WHERE KY\_BA = :HWS-KY-BA  AND KY\_CUST\_NO = :HWS-KY-CUST-NO  AND KY\_PREM\_NO = :HWS-KY-PREM-NO  AND CD\_SO\_STAT =:HWS-CD-SO-STAT  AND CD\_ORD\_TYPE IN ('01','21','39')  AND DT\_SO\_CMPLT = '0001-01-01'  AND :HWS-DT-REMINDER >=DT\_EFF\_ELE\_SERV      END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK  CONTINUE  WHEN OTHER  MOVE 'A8000' TO ERR-KY-PARAGRPH-NO  MOVE WC-CU09TB02-FETCH-ERR TO ERR-NM-FILE  MOVE LT-CALLED TO ERR-AR-TYP-ACCESS  MOVE SQLCODE TO ERR-CD-SYS-RTRN  MOVE LT-DB2-ERROR TO ERR-CD-TYPE-ERR  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT  END-EVALUATE.    EXEC SQL  OPEN SERV\_ORD\_CSR  END-EXEC.    MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK  CONTINUE  WHEN OTHER  MOVE 'A8000' TO ERR-KY-PARAGRPH-NO  MOVE WC-CU09TB02-FETCH-ERR TO ERR-NM-FILE  MOVE LT-CALLED TO ERR-AR-TYP-ACCESS  MOVE SQLCODE TO ERR-CD-SYS-RTRN  MOVE LT-DB2-ERROR TO ERR-CD-TYPE-ERR  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT  END-EVALUATE.  A8000-EXIT.  EXIT.  A8001-FETCH-HLD-CONN-SERV-REC.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 8 0 0 1 - F E T C H - H L D - C O N N - S V C E - R E C \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH RETRIEVES HELD CONNECTION SERVICE RECORD \*  \* \*  \* CALLED FROM: A2220-RETRIVE-CONN-ORD \*  \* \*  \* CALLS: S9999-PROGRAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A8001' TO ERR-KY-PARAGRPH-NO.  INITIALIZE SQLCODE,  CU09TB02.    EXEC SQL  FETCH SERV\_ORD\_CSR  INTO  :CU09TB02.ky-so-no  ,:CU09TB02.ky-ba  ,:CU09TB02.ky-cust-no  ,:CU09TB02.ky-prem-no  ,:CU09TB02.AD-COMPRESSED  ,:CU09TB02.dt-so-issued  ,:CU09TB02.dt-eff-ele-serv  ,:CU09TB02.DT-SPEC-RQST  ,:CU09TB02.cd-spt-type  ,:CU09TB02.cd-ord-type  ,:CU09TB02.cd-so-stat    END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK  MOVE KY-SO-NO OF CU09TB02  TO WT-KY-SO-NO(WX-CU09TB02-IDX)  MOVE KY-BA OF CU09TB02  TO WT-KY-BA(WX-CU09TB02-IDX)  MOVE KY-CUST-NO OF CU09TB02  TO WT-KY-CUST-NO(WX-CU09TB02-IDX)  MOVE KY-PREM-NO OF CU09TB02  TO WT-KY-PREM-NO(WX-CU09TB02-IDX)  MOVE AD-COMPRESSED OF CU09TB02  TO WT-AD-COMPRESSED(WX-CU09TB02-IDX)  MOVE DT-SO-ISSUED OF CU09TB02  TO WT-DT-SO-ISSUED(WX-CU09TB02-IDX)  MOVE DT-SPEC-RQST OF CU09TB02  TO WT-DT-SPEC-RQST(WX-CU09TB02-IDX)  MOVE DT-EFF-ELE-SERV OF CU09TB02  TO WT-DT-EFF-ELE-SERV(WX-CU09TB02-IDX)  MOVE CD-SPT-TYPE OF CU09TB02  TO WT-CD-SPT-TYPE(WX-CU09TB02-IDX)  MOVE CD-ORD-TYPE OF CU09TB02  TO WT-CD-ORD-TYPE(WX-CU09TB02-IDX)  MOVE CD-SO-STAT OF CU09TB02  TO WT-CD-SO-STAT(WX-CU09TB02-IDX)    SET WF-MORE-ROWS TO TRUE  WHEN SQL-CD-NOT-FOUND  SET WF-NO-MORE-ROWS TO TRUE  WHEN OTHER  MOVE 'A8001' TO ERR-KY-PARAGRPH-NO  MOVE WC-CU09TB02-FETCH-ERR TO ERR-NM-FILE  MOVE LT-CALLED TO ERR-AR-TYP-ACCESS  MOVE SQLCODE TO ERR-CD-SYS-RTRN  MOVE LT-DB2-ERROR TO ERR-CD-TYPE-ERR  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT  END-EVALUATE.    A8001-EXIT.  EXIT.  A8002-CLOSE-CONN-SERV-ORD-CSR.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 8 0 1 0 - P R O C E S S - H L D - C O N N - S V C \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH PROCESS HELD CONNECTION SERVICE \*  \* \*  \* CALLED FROM: A2220-RETRIVE-CONN-ORD \*  \* \*  \* CALLS: S9999-PROGRAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A8002' TO ERR-KY-PARAGRPH-NO.  EXEC SQL  CLOSE SERV\_ORD\_CSR  END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  IF NOT SQL-CD-OK  MOVE 'A8002' TO ERR-KY-PARAGRPH-NO  MOVE WC-CU09TB02-FETCH-ERR TO ERR-NM-FILE  MOVE LT-CALLED TO ERR-AR-TYP-ACCESS  MOVE SQLCODE TO ERR-CD-SYS-RTRN  MOVE LT-DB2-ERROR TO ERR-CD-TYPE-ERR  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT  END-IF.  A8002-EXIT.  EXIT.    A8005-GET-PREM-STR-ADDR.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\* A 8 0 0 5 - G E T - P R E M - S T R - A D D R \*\*  \*\* ------------------------------------------------------ \*\*  \*\* THIS PARAGRAPH RETURNS THE REQUESTED PREMISE STREET \*\*  \*\* ADDRESS. \*\*  \*\* \*\*  \*\* JOSE 09/04/14 IR 886002 \*\*  \*\* \*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A8005 ' TO ERR-KY-PARAGRPH-NO.  INITIALIZE CU02TB02.  MOVE IN-KY-PREM-NO  TO KY-AD OF CU02TB02.  MOVE 'P'  TO CD-AD-TYPE OF CU02TB02.  MOVE 1  TO CD-AD-LN OF CU02TB02.  SET VS-ACT OF VS-CD-STAT TO TRUE.  MOVE VS-CD-STAT  TO CD-STAT OF CU02TB02.  EXEC SQL  SELECT AD\_LN  INTO :CU02TB02.AD-LN  FROM ADDRESSES  WHERE KY\_AD = :CU02TB02.KY-AD  AND CD\_AD\_TYPE = :CU02TB02.CD-AD-TYPE  AND CD\_AD\_LN = :CU02TB02.CD-AD-LN  AND CD\_STAT = :CU02TB02.CD-STAT  END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK OR SQL-CD-NOT-FOUND  CONTINUE  WHEN OTHER  MOVE 'A8005' TO ERR-KY-PARAGRPH-NO  MOVE 'CU02TB02' TO ERR-NM-FILE  MOVE LT-SELECT TO ERR-AR-TYP-ACCESS    PERFORM S9820-WRITE-ERR-REPORT-RECORD  THRU S9820-EXIT  SET WF-ROLLBACK-YES TO TRUE  PERFORM A9300-PROCESS-RSAM-ROLLBACK  THRU A9300-EXIT  END-EVALUATE.  A8005-EXIT.  EXIT.    A8100-TERMINATE-OBLIGATION.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 8 1 0 0 - T E R M I N A T E - O B L I G A T I O N \*  \* --------------------------------------------------- \*  \* THIS PARAGRAPH PERFORMS THE LOGIC NECESSEARY TO UPDATE THE \*  \* OBLIGATION FOR THE PAG WINTER RECONNECT. \*  \* \*  \* CALLED FROM: A2100-PROCESS-OBLIG-REVIEW \*  \* \*  \* CALLS: S9820-WRITE-ERR-REPORT-RECORD \*  \* A9300-PROCESS-RSAM-ROLLBACK \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A8100' TO ERR-KY-PARAGRPH-NO.    MOVE IN-KY-PREM-NO  TO KY-SITE-BLDG-PREM OF CU09TB19.  MOVE LT-YES  TO FL-OBLIGATN-COMPLT OF CU09TB19.  MOVE WV-CURRENT-DATE  TO DT-COMPLETE OF CU09TB19.    SET VS-WRITTEN-OFF-RECONNECT OF VS-CD-HOLD-REASON  TO TRUE.    MOVE VS-CD-HOLD-REASON  TO CD-HOLD-REASON OF CU09TB19.    SET VS-ALL-SERVICES OF  VS-CD-OBLG-SVC-TYPE TO TRUE.    MOVE VS-CD-OBLG-SVC-TYPE  TO CD-OBLG-SVC-TYPE OF CU09TB19.  EXEC SQL  UPDATE SERVICE\_OBLIGATION  SET DT\_COMPLETE = :CU09TB19.DT-COMPLETE,  FL\_OBLIGATN\_COMPLT = :CU09TB19.FL-OBLIGATN-COMPLT  WHERE KY\_SITE\_BLDG\_PREM = :CU09TB19.KY-SITE-BLDG-PREM  AND CD\_HOLD\_REASON = :CU09TB19.CD-HOLD-REASON  AND CD\_OBLG\_SVC\_TYPE = :CU09TB19.CD-OBLG-SVC-TYPE    END-EXEC.  MOVE SQLCODE TO SQL-CD-RETURN.  EVALUATE TRUE  WHEN SQL-CD-OK OR SQL-CD-NOT-FOUND  CONTINUE  WHEN OTHER  MOVE WS-LT-PGM-ID TO ERR-KY-PGM-ID  MOVE LT-CD-TYP-ERR-S TO ERR-CD-TYPE-ERR  MOVE LT-WRITE-ERROR TO ERR-CD-ERR-ACT  MOVE WC-CU09TB19 TO ERR-NM-FILE  MOVE WC-UPDATE TO ERR-AR-TYP-ACCESS  MOVE SQLCODE TO ERR-CD-SYS-RTRN  MOVE LT-DB2-ERROR TO ERR-CD-TYPE-ERR  INITIALIZE ERR-TX-RMKS-128  MOVE KY-BA OF CU02TB01 TO ERR-KY-BA-0919  MOVE WC-0919-ERROR TO ERR-TX-RMKS-128  PERFORM S9820-WRITE-ERR-REPORT-RECORD  THRU S9820-EXIT  SET WF-ROLLBACK-YES TO TRUE  PERFORM A9300-PROCESS-RSAM-ROLLBACK  THRU A9300-EXIT  END-EVALUATE.    A8100-EXIT.  EXIT.    A9000-RSAM-OPEN.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 0 0 0 - R S A M - O P E N \*  \* ----------------------------- \*  \* THIS PARAGRAPH IS CALLED TO HAVE RSAM OPEN THE HELD-SO AND \*  \* SO-RDG FILES. \*  \* \*  \* CALLED BY: A0500-HOUSEKEEPING \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9000' TO ERR-KY-PARAGRPH-NO.  MOVE LT-NUMBER-OF-FILES TO RSAM-NUM-OF-FILES.  MOVE LT-OPEN-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.  A9000-EXIT.  EXIT.    A9020-RSAM-COMMIT.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 0 2 0 - R S A M - C O M M I T \*  \* --------------------------------- \*  \* THIS PARAGRAPH IS CALLED TO HAVE RSAM PERFORM A COMMIT. \*  \* \*  \* CALLED BY: A0500-HOUSEKEEPING \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9020' TO ERR-KY-PARAGRPH-NO.  MOVE LT-COMMIT-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.  A9020-EXIT.  EXIT.    A9040-RSAM-CLOSE.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 0 4 0 - R S A M - C L O S E \*  \* ------------------------------- \*  \* THIS PARAGRAPH IS CALLED TO HAVE RSAM CLOSE THE HELD-SO AND \*  \* SO-RDG FILES. \*  \* \*  \* CALLED BY: A1000-APPLICATION-PROCESS \*  \* A4000-READ-FILE-ERROR \*  \* A4100-PROCESS-AUCM-ERROR \*  \* A4200-PROCESS-DB2-ABEND \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9040' TO ERR-KY-PARAGRPH-NO.  MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.  A9040-EXIT.  EXIT.  A9060-RSAM-ROLLBACK.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 0 6 0 - R S A M - R O L L B A C K \*  \* ------------------------------------- \*  \* THIS PARAGRAPH IS CALLED TO HAVE RSAM PERFORM ROLLBACK \*  \* PROCESSING WHEN AN ERROR OCCURS DURING AUTOCOMPLETION. \*  \* \*  \* CALLED BY: XXX \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9060' TO ERR-KY-PARAGRPH-NO.  MOVE ZEROES TO WA-COMMIT-CTR.  MOVE LT-ROLLBACK-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.  A9060-EXIT.  EXIT.    A9100-READ-RECORD.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 1 0 0 - R E A D - R E C O R D \*  \* \*  \* THIS PARAGRAPH WILL READ THE INPUT FILE, CUCBSO25, AND AT \*  \* THE END OF WILL SET A FLAG TO IDENTIFY THE END OF THE FILE\*  \* \*  \* CALLED BY: A0500-HOUSEKEEPING \*  \* A2000-PROC-ALL-INPUT-RECS \*  \* \*  \* CALLS : A9120-RSAM-READ \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9100' TO ERR-KY-PARAGRPH-NO.    INITIALIZE OBLIG-HOLD-FILE-REC.  MOVE LT-ONE-B TO RSAM-DD-TABLE-SUBSCR.  PERFORM A9120-RSAM-READ  THRU A9120-EXIT.  IF RSAM-KY-RTRN-STAT EQUAL LT-EOF  SET WF-ALL-INPUT-ROWS-PROC TO TRUE  ELSE  MOVE RSAM-FILE-IO-AREA TO OBLIG-HOLD-FILE-REC  ADD LT-ONE-PS TO WA-COMMIT-CTR  SET WF-SKIP-N TO TRUE  END-IF.    A9100-EXIT.  EXIT.  A9120-RSAM-READ.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 1 2 0 - R S A M - R E A D \*  \* ----------------------------- \*  \* THIS PARAGRAPH IS CALLED TO HAVE RSAM READ THE HELD-SO AND \*  \* SO-RDG FILES. \*  \* \*  \* CALLED BY: A9100-READ-RECORD \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9120' TO ERR-KY-PARAGRPH-NO.  MOVE LT-READ-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.  A9120-EXIT.  EXIT.    A9200-DETERMINE-ROLLBACK.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 2 0 0 - D E T E R M I N E R O L L B A C K \*  \* --------------------------------------------------------- \*  \* \*  \* THIS PARAGRAPH WILL ABEND IF THE ROLLBACK LIMIT HAS BEEN \*  \* EXCEEDED. OTHERWISE THE ERROR RECORD WILL BE WRITTEN AND \*  \* THE DATA WILL BE ROLLBACKED. PARAGRAPH S9850 POPULATES \*  \* ERROR INFORMATION SPECIFIC TO THE IO MODULE CALLS, THEN \*  \* WRITES THE ERROR REPORT AND ROLLS BACK. IF THE ERROR WAS \*  \* A RESULT OF CALLING ANOTHER MODULE, THEN THE SHELL \*  \* PARAGRAPHS MUST BE CALLED SEPARATELY TO WRITE THE ERROR \*  \* REPORT AND ROLLBACK THE DATA. \*  \* \*  \* CALLED BY: A2400-SEND-MESSAGE-EMAIL \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* S9999-PROGRAM-ABEND \*  \* S9850-PROCESS-IO-ERROR \*  \* S9820-WRITE-ERR-REPORT-RECORD \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  MOVE 'A9200' TO ERR-KY-PARAGRPH-NO.  ADD LT-ONE-D TO WA-ROLLBACK-CNT.  SET WF-ROLLBACK-YES TO TRUE.  MOVE IN-KY-BA TO WV-BAD-KY-BA  WV-DTL-ACCTNO    MOVE WC-CU09TB19 TO WV-DTL-SOURCE  MOVE WV-TIMESTAMP TO WV-DTL-TS-TRANSACTION.  MOVE WC-DTL-LINE TO ERR-TX-RMKS-128.  MOVE WV-IN1-DATE TO WV-BAD-DATE.  MOVE WV-IN1-TIME TO WV-BAD-TIME.  IF WA-ROLLBACK-CNT > WC-REJECT-LIMIT  MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT    MOVE LT-ROLLBACK-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT    MOVE LT-DUMP TO ABD-CD-SYS-RTRN  MOVE WS-LT-PGM-ID TO ABD-KY-PGM-ID  MOVE ERR-KY-PARAGRPH-NO TO ABD-KY-PARAGRPH-NO  MOVE CD-RSAM-TOO-MANY-ERRORS TO ABD-KY-ABND-MSG-NO  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT    ELSE    PERFORM S9850-PROCESS-IO-ERROR  THRU S9850-EXIT    MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT    MOVE LT-ROLLBACK-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT    END-IF.    INITIALIZE WA-COMMIT-CNT.  IF ERR-CD-TYPE-ERR = LT-CALLED-ERROR  PERFORM S9820-WRITE-ERR-REPORT-RECORD  THRU S9820-EXIT  MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT  MOVE LT-ROLLBACK-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT  INITIALIZE ERR-CD-TYPE-ERR  END-IF.  A9200-EXIT.  EXIT.  A9300-PROCESS-RSAM-ROLLBACK.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 3 0 0 - P R O C E S S - R S A M - R O L L B A C K \*  \* ----------------------------------------------------------- \*  \* THIS PARAGRAPH IS CALLED TO PERFORM THE RSAM ROLLBACK ANY \*  \* TIME AN ERROR OCCURS. \*  \* \*  \* CALLED BY: A8100-TERMINATE-OBLIGATION \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* S9999-PROGRAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  ADD LT-ONE-D TO WA-REJECT-CTR  IF WA-REJECT-CTR NOT < WA-REJECT-CTR  MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT  INITIALIZE ERR-CALLED-BY-INFO  MOVE WS-LT-PGM-ID TO ERR-KY-PGM-ID  ABD-KY-PGM-ID  MOVE ERR-KY-PARAGRPH-NO TO ABD-KY-PARAGRPH-NO  MOVE CD-RSAM-TOO-MANY-ERRORS TO ABD-KY-ABND-MSG-NO  MOVE LT-DUMP TO ABD-CD-SYS-RTRN  MOVE LT-WRITE-ERROR TO ERR-CD-ERR-ACT  MOVE LT-EOF TO ERR-CD-SYS-RTRN  MOVE LT-COMMON-ERROR TO ERR-CD-TYPE-ERR  MOVE LT-MAX-ROLLBACKS-REACHED TO ERR-TX-RMKS-86  INITIALIZE ERR-TX-RMKS-128  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT  ELSE  MOVE KY-BA OF CU02TB01 TO WS-BAD-KY-BA  MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT  INITIALIZE WA-COMMIT-CTR  MOVE LT-ROLLBACK-CD TO RSAM-KY-OPER-CD  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT  END-IF.  A9300-EXIT.  EXIT.    A9400-RSAM-ABEND.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 4 0 0 - R S A M - A B E N D \*  \* ------------------------------- \*  \* \*  \* THIS PARAGRAPH IS CALLED TO ABEND THE PROGRAM WHEN THE \*  \* MAXIMUM NUMBER OF ROLLBACKS HAS BEEN BEEN REACHED OR \*  \* WHEN THE RETURN CODE FROM A CALLED MODULE IS SOMETHING \*  \* OTHER THAN ZEROS. \*  \* \*  \* CALLED BY: A0510-GET-CURRENT-DATE \*  \* A1000-APPLICATION-PROCESS \*  \* \*  \* CALLS: S9000-RSAM-CONTROL \*  \* S9999-PROGRAM-ABEND \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A9400' TO ERR-KY-PARAGRPH-NO  MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.    MOVE LT-DUMP TO ABD-CD-SYS-RTRN.  PERFORM S9999-PROGRAM-ABEND  THRU S9999-EXIT.    A9400-EXIT.  EXIT.    A9500-WRAP-UP.  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* \*  \* A 9 5 0 0 - W R A P U P \*  \* -------------------------------- \*  \* DO NOT DELETE OR RENAME THIS PARAGRAPH. IT IS REQUIRED \*  \* FOR ALL PROGRAMS. \*  \* \*  \* THIS PARAGRAPH PERFORMS ANY PROCESSING THAT NEEDS \*  \* TO BE DONE BEFORE THE PROGRAM EXECUTION ENDS. \*  \* \*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*    MOVE 'A9500' TO ERR-KY-PARAGRPH-NO    MOVE LT-CLOSE-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.    MOVE LT-END-CD TO RSAM-KY-OPER-CD.  PERFORM S9000-RSAM-CONTROL  THRU S9000-EXIT.    A9500-EXIT.  EXIT. | |

|  |  |
| --- | --- |
| Name | Is Code Attached Separately? |
| CUBSO209 | No |
| Description | |
| Create a new module that will evaluate if thean obligation. Written-off accounts must be satisfied Void Held service orders. | |
| onOffSwitch = false; | |
| // mouseover off | |

## Potential Test Conditions

|  |  |  |
| --- | --- | --- |
| **Item** | **Point** | **Potential Test Condition** |
|  |  | **Reference Sharepoint Link Below:** |
|  |  | [**Open**](https://ameren.sharepoint.com:443/:x:/r/sites/ESOT/Shared%20Documents/MVP%20-%20Test%20Scripts%20Oct%202018/ESO%20MVP%202018%20-%20Test%20Scripts.xlsx?d=wc07cecf4ef2746b9bb1c5dfa8d9d0116&e=4%3adc25158107254ed8bdc663cf41371a77&at=9) |
|  |  |  |

## Assumptions

|  |  |  |
| --- | --- | --- |
| **Num** | **Date** | **Assumption** |
| 1 | 10/01/2018 | This MKS is for both IL and MO. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Notice Type** | Email | Mail | No Notice |
| Date Wanted < =10 days  - Hold for 10 days after Date Wanted |  |  | X |
| Date Wanted  >   10 day Notice -Cancellation/void notice | X |  |  |
| Release Acknowledgement | X |  |  |
| Partial Payment   - Business As Usual |  |  | X |
| New Connect Request   - Business As Usual |  |  | X |
| 8  Warning Day Reminder  =  8  Days | X |  |  |
|  |  |  |  |
| **PAYMENT METHOD** |  |  |  |
| WB         WEB PAYMENT |  |  |  |
| DD          DIRECT DEPOSIT |  |  |  |
| HF          HOT-FILE |  |  |  |
| AC          ACH |  |  |  |
| CC         CREDIT CARD |  |  |  |
| CK        CHECK  -the Obligation/Hold will be released when the check is received, not cashed. |  |  |  |
| **Questions** |  |  |  |
| 1.        All payment methods will apply to satisfying the hold obligation for the connect service order. See above | YES |  |  |
| 2.       The payment obligation will be verified against the new account if  full payment have been made. . |  |  |  |
| 3.       Verify payment amount against the Obligation used to hold the connect order.  The payment amount will be the sum of the current payment and the posted payment to the account. | The customer can make multiple partial payments, but the Obligation will be released only when they totaled up to have complete balance  paid off |  |  |
| 4.       Terminate Hold Obligation and service order > 10 calendar days. | Yes |  |  |
| 5.       Payment Before  Connect Request will terminate the obligation. | Yes |  |  |
| 6.       Payment After Connect Request will terminate the obligation and the service order. | Yes, and will issue the connect |  |  |
| 7.       "Warning Notification"  2 days prior to 10 Calendar day void. | Note: The order will be on Hold for 10 calendar days after the "Date wanted" |  |  |
| 8.       No message will be sent if the payment is less than the total amount of the written off account. Partial payments are not taken into account.  For partial payment no action is take. | Business as usual. |  |  |
| 9.       All Payment will be summed to assess the total payment amount.  Sum all payments to satisfy obligation.  Verify that the obligation is calculating based on the account balance. | Yes |  |  |
| 10.   After releasing the obligation the connect service order will complete on the date wanted. | Yes |  |  |
| If  the customer pay early and we remove the hold status, the connect will be completed on the date wanted. |  |  |  |
| 11.   The 10 business days begin from the date of issuance.  Therefore , if the Date Wanted is 20 days from the date of issuance the service order will be terminated in 10 business days. | The order should be on Hold for 10 calendar days after the date wanted |  |  |
| 12.   If date wanted is schedule 3 days from the current business day,  No notice will be sent to the customer. | need to follow Business as usual. |  |  |
| 13.   When a payment is made and the obligation is released no Notice will be sent. | yes. |  |  |
| 14.   Service orders will be void  on date wanted <=10 bus day | The order should be on Hold for 10 calendar days after the date wanted |  |  |
| 15.   Service Orders will void if no payment received  >10 Calendar days. | Yes |  |  |
| 16.   If the CSR Maintains a service order date wanted ? | yes, follow business as usual logic .  The Service order  will change. This will change the timeline of the obligation release date. |  |  |
| 17.   If the CSR Voids a service order should we terminate the obligation? | yes |  |  |
| 18.   Do third party payment agreement satisfy the obligation | Payment Agreement is for Winter time only. We will have the payment Agreement set up in future releases. |  |  |
| 19.   Critical Contact on the account Issue Connect. | Yes (see user stories ESO-58, 125, 126 |  |  |

1. Payment made:  example one day before the posting date to CSS.  DT-ROW-STAT is used  calculate the number of days.6

    KY\_BA         DT\_PMT     AMT\_PAYMENT   DT\_ROW\_STA   AMT\_TRAN AMT\_REM\_DB OBLIG\_STAT

---------- ---------- ----------- ---------- ---------- ---------- -----------

1547056002 2018-11-19         770               2018-11-20    7214.18       6230 NOT SATISFY

Some payers will receive  an extra day depending on the method of payment.

1. Payments will be verified against the Write-Off  HDR and the SUM of payments associated with the customer's written off accounts only. – **Written-off accounts and new pending connect account**
2. What is Ameren's current  process for handling written off accounts in CSS. **– We force the customer to go make the payment and then call back with a receipt number before we will process the connect request**
3. Obligations and notifications will be evaluated through the day 5 min intervals. **– yes**
4. Service Orders  Void process will run in the morning. – **yes on the 11th calendar day from the connect request start date.**

## Open Design Points

|  |  |  |  |
| --- | --- | --- | --- |
| **Num** | **Date** | **Status** | **Point** |
| 1 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Change Log

|  |  |  |
| --- | --- | --- |
| **Item** | **Change** | **Reason** |
|  |  | Report needs to be placed somewhere |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Construction Estimate

**Time Estimates**

|  |  |  |
| --- | --- | --- |
| **Number** | **Item Name** | **Estimate (Hours)** |
|  | Analysis/Design – Written Off Accounts/Issue Held Order/Assess Deposit | 160 |
| 2. | Data Admin – Copybooks, Tables, etc |  |
|  | Copybooks (csr map regen's, recompiles) | 30 |
| 3. | Code & Unit Test |  |
|  | CUMLA010 | 40 |
|  | CUMLA012 | 90 |
|  | CUMLA013 | 24 |
|  | CUMLA016 | 90 |
|  | CUMSO60 | 32 |
|  | CUBSO209 - New Module | 120 |
|  | CUMSO209 - New Module | 120 |
|  | CUBCP205 | 40 |
|  | cs209dip – New Script | 40 |
|  | write-off-conn-unload.sql – New PLSQL | 60 |
|  | **Sub Total** | **846** |
|  | Contingency (20%) | 169 |
| 4 | Code Review | 0 |
| 6. | Develop Test Plan/Test Conditions (Business Owns) | 0 |
| 7. | Generate Test Data – (Identify/BAE Accounts) | 40 |
| 8. | Execute System Test | 210 |
|  | **Total Hours** | 1,265 |

**Estimate Assumptions**

|  |  |
| --- | --- |
| **Number** | **Assumption** |
| 1 | Unknown challenges with having no dedicated test environment setup. Necessary for date flip with batch processing and avoid SSN overwrite from BAE script being run by any IT resource at Ameren. |
| 2 | Unknown challenges with not having a CSS Business Analyst on the ESOT team. |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Peer Review

The objective of a peer review is to involve a group of people (peers) to examine part or all of a product to discover potential problems. The results of the peer review are either formally or informally recorded (depending on the specific type of peer review) and passed on to the author or person responsible for correcting the discovered problem.

The different types of peer reviews are the formal inspection (or Fagan Inspection), walkthrough, or desk check.

All aspects of the Detailed Design must be peer reviewed. The specific type of peer review chosen will vary depending on the specific needs of the project. These needs are determined during the planning stages of the project and the peer review schedule is integrated into the overall project schedule.

|  |  |  |
| --- | --- | --- |
| **Item** | **Design Issue** | **Resolution** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |