```
{Application 'BPCS_EDIT' logic file generated by CSPro }
PROC GLOBAL
    numeric i,j,ok,sheet_no, prt_sw,new_fn,err_flag,nocc,ctr,err_ctr,tcost,avecost;
    numeric sn_count,tot_sn,sn_in_fn,rec_read,tot_units,tot_folio,fn_prt;
    numeric uni_streets,uni_res,uni_nonres,uni_addition,uni_repairs,uni_demolitions;
    numeric prev_qq, prev_prov;
    alpha(3) prev_fn,w_fn;
    alpha(2) prev_sn,w_sn;
    alpha(50) dup_sheet;
    array alpha(50) mesg(20);
    alpha(4) search_id;
    alpha(6) testname, expd, prod;
    alpha(2) search_pp, search_mm, temprv;
function test_prt()
    err_ctr = 1;
    if fn_prt = 0 then
{      write ("FOLIO : [%d%02d%s]",prev_qq,prev_prov,prev_fn);}
      write ("FOLIO : [%d%02d%s]",fn_qtr,fn_prov,w_fn);
      fn_prt = 1;
    endif;
    if prt_sw = 0 then
      write ("  Sheet : %s",w_sn);
      prt_sw = 1;
    endif;
end;
PROC MERGE_DD_FF
preproc
    tot_folio = 1;
    write("Reject Listing for Building Permits");
    write (" ");
    ctr = ctr + 1;
    j=0;
    err_flag=0;
    prt_sw=1;
    prev_fn = "      ";
    prev_sn = "  ";
    dup_sheet = "";
    new_fn = 0;
postproc

    if err_ctr = 1 then
      write(" ");
      write("              Last sheet no.= %d    Total sheets in this folio =%d",sn_count,sn_sheetno);
      write(" ");
    endif;

     if sn_count = (sn_sheetno+1) then
     else
      write(" ");
      write("     Verify, no. of encoded docs <> last sheet no. + 1");
      write(" ");
    endif;




    write(" ");
    write ("=======================================================");
    write("          ******* Summary Statistics ******           ");
    write ("=======================================================");
    write("  Number of records read          : %d", rec_read);
    write("  Number of folios                : %d", tot_folio);
    write("  Number of sheets                : %d", tot_sn);
```

```
    write("  Number of units                   : %d", tot_units);
    write("  Number of units [Streets, furns]   : %d",uni_streets);
    write("  Number of units [Residentials]     : %d",uni_res);
    write("  Number of units [Non residentials] : %d",uni_nonres);
    write("  Number of units [Additions]        : %d",uni_addition);
    write("  Number of units [Repairs]          : %d",uni_repairs);
    write("  Number of units [Demolitions]      : %d",uni_demolitions);


PROC QUEST

postproc

   if length(strip(namecon))=8 then
      if temprv = namecon[4:2] then
      else
         test_prt();
         write("    Location code(Prov) inconsistent w/ folio ID       Loc(Prov)=%s",temprv);
      endif;
    else

    endif;
PROC FN_num
preproc
  rec_read = rec_read + 1;
  w_fn = edit("999", $);
postproc
  w_fn = edit("999", $);
  if rec_read = 1 then
     new_fn = 1;
     prev_fn = w_fn;
     prev_qq = fn_qtr;
     prev_prov = fn_prov;
  endif;

  if prev_fn = w_fn then
     new_fn = 0;
     sn_count = sn_count + 1;
  else
     tot_folio = tot_folio + 1;
     if err_ctr = 1 then
        write("     Total sheets in this folio = %d   Last sheet no.+1 =%d",sn_count,tonumber(w_sn)+1);
        if sn_count = tonumber(w_sn)+1 then
        else
           write("     Verify, no. of encoded docs <> last sheet no. + 1");
        endif;
        write(" ");
     endif;
     err_ctr=0;
     fn_prt=0;
     new_fn = 1;
     prev_fn = w_fn;
     prev_qq = fn_qtr;
     prev_prov = fn_prov;
     sn_count = 1;
   endif;
PROC SN_sheetno
  tot_sn = tot_sn+1;
  prt_sw = 0;
  w_sn = edit("99", $);
  if prev_sn = w_sn then
     test_prt();
     write("    Duplicate sheet nos. [%s] [%s]",prev_sn,w_sn);
```

```
   endif;
PROC RT00_QSPBC_EDT
preproc
     tcost=0;
proc doi_mm
  if FN_QTR = 1 and not $ in 01,02,03 then
     test_prt();
     write("   Date of issuance is out of coverage quarter,     Date of issuance = %06d",date_issuance);
  elseif FN_QTR = 2 and not $ in 04,05,06 then
{
     if $ < 4 then
        impute ($,4);
     else
        impute ($,6);
     endif;
}
     test_prt();
     write("   Date of issuance is out of coverage quarter,     Date of issuance = %06d",date_issuance);
  elseif FN_QTR = 3 and not $ in 07,08,09 then
     test_prt();
     write("   Date of Issuance is out of coverage quarter,     Date of issuance = %06d",date_issuance);
  elseif FN_QTR = 4 and not $ in 10,11,12 then
     test_prt();
     write("   Date of issuance is out of coverage quarter,     Date of issuance = %06d",date_issuance);
  endif;
PROC DOI_DD

     if  not $ in 01:31 then
        test_prt();
        write("   Invalid date of issuance                      Date of issuance = %d",date_issuance);
     endif;


PROC DOI_YY
  if not $ in 05:15 then
     test_prt();
     write("   Invalid date of issuance                      Date of issuance = %d",date_issuance);
  endif;
PROC PN_PERMITNO
  if not $ > 0 then
     test_prt();
     write("   Invalid permit number                         PN_PERMITNO = %d",PN_PERMITNO);
  ENDIF;
proc FOWN_OWNER
     if not $ in 0:9 then
        test_prt();
        write ("   Invalid form of ownership (Valid entries=0:9)FOWN_OWNER  = %d",FOWN_OWNER);
     endif;


PROC ECON_ECOMICACTI
     if not $ in "A","B","C","D","E","F","G","H","I","J","K","L","M","N","O","X","a","b","c","d","e","f","g","h","i","j","k","l","m","n","o","x"  then
        test_prt();
        write ("   Invalid economic activity                    Economic Activity = %s",ECON_ECOMICACTI);
     endif;


PROC LOCATION
  do varying i = 1 until i > 6
     if $[i:1] = "a" then
        testname[i:1] = "A";
     elseif $[i:1] = "b" then
        testname[i:1] = "B";
     elseif $[i:1] = "c" then
        testname[i:1] = "C";
     elseif $[i:1] = "d" then
```

```
         testname[i:1] = "D";
      elseif $[i:1] = "e" then
         testname[i:1] = "E";
      elseif $[i:1] = "f" then
         testname[i:1] = "F";
      elseif $[i:1] = "g" then
         testname[i:1] = "G";
      elseif $[i:1] = "h" then
         testname[i:1] = "H";
      elseif $[i:1] = "i" then
         testname[i:1] = "I";
      elseif $[i:1] = "j" then
         testname[i:1] = "J";
      elseif $[i:1] = "k" then
         testname[i:1] = "K";
      elseif $[i:1] = "l" then
         testname[i:1] = "L";
      elseif $[i:1] = "m" then
         testname[i:1] = "M";
      elseif $[i:1] = "n" then
         testname[i:1] = "N";
      elseif $[i:1] = "o" then
         testname[i:1] = "O";
      elseif $[i:1] = "p" then
         testname[i:1] = "P";
      elseif $[i:1] = "q" then
         testname[i:1] = "Q";
      elseif $[i:1] = "r" then
         testname[i:1] = "R";
      elseif $[i:1] = "s" then
         testname[i:1] = "S";
      elseif $[i:1] = "t" then
         testname[i:1] = "T";
      elseif $[i:1] = "u" then
         testname[i:1] = "U";
      elseif $[i:1] = "v" then
         testname[i:1] = "V";
      elseif $[i:1] = "w" then
         testname[i:1] = "W";
      elseif $[i:1] = "x" then
         testname[i:1] = "X";
      elseif $[i:1] = "y" then
         testname[i:1] = "Y";
      elseif $[i:1] = "z" then
         testname[i:1] = "Z";
      else
         testname[i:1] = $[i:1];
      endif;
      enddo;
PROC PROV
   if not $ in 01:83 then
      test_prt();
      write("    Invalid province code (Valid entries=01:83)        Province = %d",prov);
   endif;
   temprv = edit("99",$);
PROC MUN
   if not $ in 01:99 then
      test_prt();
      write("    Invalid municipality code (Valid entries=01:99)   Municipality = %d",mun);
   endif;

 if prov = 23 and mun = 04 then
    prov = 82;
```

```
     mun = 01;
  endif;

  if prov = 23 and mun = 07 then
     prov = 82;
     mun = 03;
   endif;

  if prov = 23 and mun = 08 then
     prov = 82;
     mun = 04;
   endif;

  if prov = 23 and mun = 09 then
     prov = 82;
     mun = 06;
   endif;

  if prov = 23 and mun = 10 then
     prov = 82;
     mun = 07;
   endif;
  if prov = 23 and mun = 11 then
     prov = 82;
     mun = 08;
   endif;
  if prov = 23 and mun = 12 then
     prov = 82;
     mun = 09;
   endif;

  if prov = 23 and mun = 13 then
     prov = 82;
     mun = 10;
   endif;
  if prov = 23 and mun = 16 then
     prov = 82;
     mun = 11;
   endif;
   if prov = 23 and mun = 20 then
     prov = 82;
     mun = 05;
   endif;
  if prov = 23 and mun = 21 then
     prov = 82;
     mun = 02;
   endif;


PROC CHKDGT
     search_id = concat(edit("99",prov),edit("99",mun));
     if prov = 39 then
        prov=91;
     endif;
     if search_id = "7404" then
        prov=92;
     endif;
     if search_id in "7401", "7402", "7403", "7405" then
        prov=93;
     endif;
     if search_id in "7501", "7502", "7503", "7504" then
        prov=94;
     endif;
```

```
if search_id in "7602", "7606", "7607" then
   prov=95;
endif;
if search_id in "7601", "7603", "7604", "7605" then
   prov=96;
endif;

search_pp = search_id[1:2];
search_mm = search_id[3:2];

if search_id = "2304" then
   search_id = "8201"
elseif search_id = "2308" then
   search_id = "8204"
elseif search_id = "2310" then
   search_id = "8207"
elseif search_id = "2312" then
   search_id = "8209"
elseif search_id = "2313" then
   search_id = "8210"
elseif search_id = "2320" then
   search_id = "8205"
elseif search_id = "2316" then
   search_id = "8211"
elseif search_id = "2311" then
   search_id = "8208"
elseif search_id = "2307" then
   search_id = "8203"
elseif search_id = "2324" then
   search_id = "2323"
elseif search_id = "2306" then
   search_id = "8202"
elseif search_pp = "91" then
   search_id = concat("39",search_mm)
elseif search_pp in "92", "93" then
   search_id = concat("74",search_mm)
elseif search_pp = "94" then
   search_id = concat("75",search_mm)
elseif search_pp in "95", "96" then
   search_id = concat("76",search_mm)

elseif search_id = "7301" then
   search_id = "8301"
elseif search_id = "7304" then
   search_id = "8302"
elseif search_id = "7309" then
   search_id = "8305"
elseif search_id = "7310" then
   search_id = "8306"
elseif search_id = "7314" then
   search_id = "8307"
elseif search_id = "7316" then
   search_id = "8308"
elseif search_id = "7320" then
   search_id = "8309"
elseif search_id = "7321" then
   search_id = "8310"
elseif search_id = "7326" then
   search_id = "8313"
elseif search_id = "7329" then
   search_id = "8315"
elseif search_id = "7331" then
   search_id = "8316"
```

```
        elseif search_id = "7334" then
            search_id = "8314"
        elseif search_id = "7335" then
            search_id = "8311"
        elseif search_id = "7336" then
            search_id = "8304"
        elseif search_id = "7339" then
            search_id = "8303"
        elseif search_id = "7342" then
            search_id = "8312"

        endif;

        if search_id = "2304" then
            search_id = "8201"
        elseif search_id = "2308" then
            search_id = "8204"
        elseif search_id = "2310" then
            search_id = "8207"
        elseif search_id = "2312" then
            search_id = "8209"
        elseif search_id = "2313" then
            search_id = "8210"
        elseif search_id = "2320" then
            search_id = "8205"
        elseif search_id = "2316" then
            search_id = "8211"
        elseif search_id = "2311" then
            search_id = "8208"
        elseif search_id = "2307" then
            search_id = "8203"
        elseif search_id = "2309" then
            search_id = "8206"
        elseif search_id = "2306" then
            search_id = "8202"
        elseif search_pp = "91" then
            search_id = concat("39",search_mm)
        elseif search_pp in "92", "93" then
            search_id = concat("74",search_mm)
        elseif search_pp = "94" then
            search_id = concat("75",search_mm)
        elseif search_pp in "95", "96" then
            search_id = concat("76",search_mm)
        endif;

        if loadcase(areanamesdd,search_pp,search_mm) = 1 then
            IF STRIP(lfarn)[1:6] <> strip(testname)[1:6] then
                test_prt();
                write("    Unmatched area name                          %s <== %s",strip(lfarn),strip(location));
            endif;
        else
            test_prt();
            write("    Area code not found in the reference file       Prov:%02d  Mun:%02d",prov,mun);
        endif;
PROC SCOPE
  if not $ in 1:7 then
      test_prt();
      write("    Invalid scope of work (Valid entries=1:7)           Scope = %d",scope);
  endif;

proc units
    if special($) then
        $ = 0;
```

```
    endif;
    tot_units = tot_units + $;

  if not $ > 0 then
     test_prt();
     write("    Invalid number of units (Valid entries > 0)        Number of units = %d",$);
  endif;


proc tocc
    ok=0;
    if tocc in 71:75 then
       ok=1;
       uni_streets = uni_streets + units;
    elseif scope = 1 and tocc in 10:15 then
       uni_res = uni_res + units;
       ok=1;
    elseif scope = 1 and tocc in 20:29, 30:37, 40:47, 50:52,60:63 then
       uni_nonres = uni_nonres + units;
       ok=1;
    elseif scope = 2 then
       uni_addition = uni_addition + units;
       ok=1;
    elseif scope in 3,4 then
       uni_repairs = uni_repairs + units;
       ok=1;
    elseif scope = 5 then
       uni_demolitions = uni_demolitions + units;
       ok=1;
    endif;

   if not $ in 10:15, 20:29, 30:37, 40:47, 50:52,60:64,71:75 then
      test_prt();
      write("    Invalid type of occupancy                          Occupancy = %d",tocc);
   endif;

   if FOWN_OWNER = 1 and tocc in 10:15 then
     if not ECON_ECOMICACTI in "X", "x" then
        test_prt();
        write("    Verify econ activity, ownership & occupancy       Econ activity=%s, Ownership=%d, Occupancy=%d",ECON_ECOMICACTI,FOWN_OWNER,tocc);
     endif;
   endif;




{

 if scope = 1 and tocc in 10,15,20,23,30,46,47,60,71:75 then
    test_prt();
    write("    Verify type of occupancy                           Occupancy=%d, Scope=%d, Flr area=%d",tocc, scope,TFA_FLRAREA);
 endif;

 }

PROC COB_COSTBLDG

    if special($) then
       $ = 0;
    endif;
    tcost = tcost+$;
{
```

```
   if not $ > 0 then
      test_prt();
      write("    Cost of building should be > 0                   COB_COSTBLDG = %d",COB_COSTBLDG);
   endif;
}
PROC EC_COSTELEC
      if special($) then
         $ = 0;
      endif;
      tcost = tcost+$;
{
   if not $ > 0 then
      test_prt();
      write("    Cost of electricity be > 0                      EC_COSTELEC = %d",EC_COSTELEC);
   endif;
}
PROC MC_COSTMECH
      if special($) then
         $ = 0;
      endif;
      tcost = tcost+$;
{
   if not $ > 0 then
      test_prt();
      write("    Cost of Mechanical should be > 0                MC_COSTMECH = %d",MC_COSTMECH);
   endif;
}
PROC PC_COSTPLUM
      if special($) then
         $ = 0;
      endif;
      tcost = tcost+$;
{
   if not $ > 0 then
      test_prt();
      write("    Cost of Plumbing should be > 0                  PC_COSTPLUM = %d",PC_COSTPLUM);
   endif;
}
PROC OC_COSTOTHR
      if special($) then
         $ = 0;
      endif;
      tcost = tcost+$;
{
   if not $ > 0 then
      test_prt();
      write("    Other Costs should be > 0                       OC_COSTOTHR = %d",OC_COSTOTHR);
   endif;
}
PROC CEE_CEEQUIP
      if special($) then
         $ = 0;
      endif;
PROC CME_CMEQUIP
      if special($) then
         $ = 0;
      endif;
PROC CPE_CPEQUIP
      if special($) then
         $ = 0;
      endif;
PROC TCC_COSTTOTAL
   if not $ > 0 then
```

```
    test_prt();
    write("   Total Cost should be > 0                                    Total Cost = %d",TCC_COSTTOTAL);
  endif;

  if  $ <> tcost then
    test_prt();
    write("    Total Cost <> Details                            TCC=%d COMP=%d COB=%d EC=%d MC=%d PC=%d OC=%d",$, tcost,COB_COSTBLDG,EC_COSTELEC,MC_COSTMECH,PC_COSTPLUM,OC_COSTOTHR);
  endif;

  if  not $ > (CEE_CEEQUIP+CME_CMEQUIP+CPE_CPEQUIP) then
    test_prt();
    write("    Total Estimated Cost < CEE + CME + CPE            TCC=%d CEE=%d CME=%d CPE=%d",$,CEE_CEEQUIP,CME_CMEQUIP,CPE_CPEQUIP);
  endif;

PROC NS_STOREYS

  if special($) then
    $ = 0;
  endif;


PROC TFA_FLRAREA

    if special($) then
      $ = 0;
    endif;

 if scope = 1 and tocc in 10:26,28:52,61:64 then

    if NS_STOREYS = 0 then
      test_prt();
      write("    Number of Storey should be > 0                    Storey=%d, Scope=%d, Occupancy=%d",NS_STOREYS,scope,tocc);
    endif;

{
     if (tcc_costtotal / $) < 1000 or (tcc_costtotal / $) > 40000 then
       test_prt();
       write("    Verify average Cost                              Total cost = %d, Floor area = %d, Occupancy=%d, Average cost = %d",TCC_COSTTOTAL,$,tocc,(tcc_costtotal / $));
    endif;
}
    if cob_costbldg = 0 then
       test_prt();
       write("    Cost of building should be > 0                   Cost of Bldg=%d, Scope=%d, Occupancy=%d",cob_costbldg,scope,tocc);
    endif;

  endif;


  if scope = 2 and tocc in 10:26,28:52,61:64 then
    if (tcc_costtotal / $) < 1000 or (tcc_costtotal / $) > 40000 then
       test_prt();
       write("    Verify average Cost                              Total cost = %d, Floor area = %d, Occupancy=%d, Average cost = %d",TCC_COSTTOTAL,$,tocc,(tcc_costtotal / $));
    endif;
  endif;


  if scope = 1 and tocc in 10:15 then
     if TFA_FLRAREA < 10 then
       test_prt();
       write("    Verify scope of work & occupancy, flr area = %d     Scope=%d, Occupancy=%d",TFA_FLRAREA,scope,tocc);
     endif;
  endif;
```

```
 if scope = 1 and tocc in 20:52,61:64 then
      if TFA_FLRAREA < 0 then
      test_prt();
      write("    Verify scope of work & occupancy, flr area = %d     Scope=%d, Occupancy=%d",TFA_FLRAREA,scope,tocc);
      endif;
  endif;


 if tocc in 11:15 and scope=1 and FOWN_OWNER = 5 and  ECON_ECOMICACTI in "K", "k" then
      if CONT_TYPE < 2 then
      test_prt();
      write("    Contractor inconsistent with Ownership/Activity      Contractor=%d, Ownership=%d, Activity=%s, Scope=%d, Occupancy=%d, Units=%d, flr
area=%d",CONT_TYPE,FOWN_OWNER,ECON_ECOMICACTI,scope,tocc,units,TFA_FLRAREA);
      endif;
 endif;


  if scope = 1 and tocc in 10:12,14 then
      if NS_STOREYS > 3 then
      test_prt();
      write("    Verify type of occupancy, storey= %d                 Scope=%d, flr area=%d, Occupancy=%d, Ownership=%d, Activity=%s",NS_STOREYS,scope,TFA_FLRAREA,tocc,FOWN_OWNER,ECON_ECOMICACTI);
      endif;
  endif;

  if scope = 1 and tocc in 15 then
      if NS_STOREYS < 5 then
      test_prt();
      write("    Verify number of storey, Occupancy= %d               Scope=%d, flr area=%d, Storey=%d",tocc,scope,TFA_FLRAREA,NS_STOREYS);
      endif;
  endif;


  if scope = 1 and tocc in 23 then
      if NS_STOREYS < 2 then
      test_prt();
      write("    Verify number of storey, Occupancy= %d               Scope=%d, Storey=%d, flr area = %d",tocc,scope,NS_STOREYS,TFA_FLRAREA);
      endif;
  endif;


   if tocc in 11,12,10 and FOWN_OWNER= 1 then
      if not ECON_ECOMICACTI in "X", "x" then
      test_prt();
      write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d, Units=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA,UNITS);
      endif;
  endif;

 if tocc in 11,12,13,14,15,10 and FOWN_OWNER in 2,3,4,5,7,8,9 then
      if not ECON_ECOMICACTI in "K", "k" then
      test_prt();
      write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d, Units=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA,UNITS);
      endif;
  endif;

 if tocc=13 then
      if not FOWN_OWNER in 2,3,4,5,8,9 and  ECON_ECOMICACTI in "K", "k" then
      test_prt();
      write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d, Units=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA,UNITS);
      endif;
 endif;
```

```
   if tocc= 21 then
        if not FOWN_OWNER in 2,4,5,6,7,8,9 and  ECON_ECOMICACTI in "J", "j" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc= 22 then
        if not FOWN_OWNER in 2,3,4,5,6,7,8 and  ECON_ECOMICACTI in "D","d","G","g","K","k" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc in 23,25 then
        if not FOWN_OWNER in 2,3,4,5,6,7,8,9 and  ECON_ECOMICACTI in "H","h" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc= 24 then
        if not FOWN_OWNER in 2,3,4,5,6,7,8,9 and  ECON_ECOMICACTI in "I","i","K","k" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;

   if tocc= 26 then
        if not FOWN_OWNER in 0,2,3,5 and  ECON_ECOMICACTI in "D","K","k","d","J","j","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc in 27,32 then
        if not FOWN_OWNER in 2,3,5,6 and  ECON_ECOMICACTI in "G","g" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc= 28 then
        if not FOWN_OWNER in 2,5,8 and  ECON_ECOMICACTI in "G","g" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc in 29 then
        if not FOWN_OWNER in 2,3,4,5 and  ECON_ECOMICACTI in "K","k","H","h" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc in 20 then
        if not FOWN_OWNER in 2:9,0 and  ECON_ECOMICACTI in "K","k","I","i","G","g","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
   if tocc in 31 then
        if not FOWN_OWNER in 2,3,5,6,7,8 and  ECON_ECOMICACTI in "D","d" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
        endif;
   endif;
 if tocc in 33 then
        if not FOWN_OWNER in 5 and  ECON_ECOMICACTI in "D","d" then
```

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        test_prt();
        write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
   if tocc in 34 then
      if not FOWN_OWNER in 2,3,5,8,9 and  ECON_ECOMICACTI in "D","d" then
        test_prt();
        write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
   endif;

   if tocc in 35  then
       if not FOWN_OWNER in 2,3,5,6,7,8,9 and  ECON_ECOMICACTI in "I","i" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;


if tocc in 36 then
       if not FOWN_OWNER in 4,5,6,7 and  ECON_ECOMICACTI in "E","e" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 37 then
       if not FOWN_OWNER in 5, 8, 9 and  ECON_ECOMICACTI in "O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 30 then
       if not FOWN_OWNER in 2,3,4,5,6,8,9 and  ECON_ECOMICACTI in "I","i","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 41 then
       if not FOWN_OWNER in 0,2,3,4,5,6,7,8,9 and  ECON_ECOMICACTI in "M","m" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 42 then
       if not FOWN_OWNER in 0,5,8 and  ECON_ECOMICACTI in "O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 43 then
       if not FOWN_OWNER in 0,2,3,4,5,6,7,8,9 and  ECON_ECOMICACTI in "N","n" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 44 then
       if not FOWN_OWNER in 2,3,5,6,7,8,9,0 and  ECON_ECOMICACTI in "O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
       endif;
   endif;
if tocc in 45 then
       if not FOWN_OWNER in 0,2,3,5,6,7,8,9 and  ECON_ECOMICACTI in "O","o" then
```

```
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 46 then
        if not FOWN_OWNER in 4,8,9 and  ECON_ECOMICACTI in "L","l" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 47 then
        if not FOWN_OWNER in 2,3,5,8,9 and  ECON_ECOMICACTI in "B","b","I","i" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 40 then
        if not FOWN_OWNER in 2,3,4,5,7,8,9,0 and  ECON_ECOMICACTI in "K","k","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 51,50 then
        if not FOWN_OWNER in 1,2,3,4,5,6,7,8 and  ECON_ECOMICACTI in "A","a" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 52 then
        if not FOWN_OWNER in 2,3,5,6,7,8 and  ECON_ECOMICACTI in "A","a","D","d" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 60 then
        if not FOWN_OWNER in 0:9 and  ECON_ECOMICACTI in "I","i","K","k","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s",tocc,FOWN_OWNER,ECON_ECOMICACTI);
      endif;
  endif;
if tocc in 61,62,63 then
        if not FOWN_OWNER in 2,3,5 and  ECON_ECOMICACTI in "O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 64 then
        if not FOWN_OWNER in 4,5,8,9 and  ECON_ECOMICACTI in "I","i" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s, Flr Area=%d",tocc,FOWN_OWNER,ECON_ECOMICACTI,TFA_FLRAREA);
      endif;
  endif;
if tocc in 71 then
        if not FOWN_OWNER in 0:9 and  ECON_ECOMICACTI in "K","k","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s",tocc,FOWN_OWNER,ECON_ECOMICACTI);
      endif;
  endif;
if tocc in 72 then
        if not FOWN_OWNER in 1,2,5,9,0 and  ECON_ECOMICACTI in "K","k","I","i","O","o" then
         test_prt();
         write("    Ownership & Activity inconsistent with Occupancy    Occupancy= %d, Ownership=%d, Activity=%s",tocc,FOWN_OWNER,ECON_ECOMICACTI);
      endif;
```

```
  endif;
 if tocc in 73 then
      if not FOWN_OWNER in 2,5,9 and  ECON_ECOMICACTI in "K","k" then
       test_prt();
       write("    Ownership & Activity inconsistent with Occupancy     Occupancy= %d, Ownership=%d, Activity=%s",tocc,FOWN_OWNER,ECON_ECOMICACTI);
      endif;
  endif;
 if tocc in 75 then
      if not FOWN_OWNER in 2,3,5,8,9 and  ECON_ECOMICACTI in "K","k","O","o" then
       test_prt();
       write("    Ownership & Activity inconsistent with Occupancy     Occupancy= %d, Ownership=%d, Activity=%s",tocc,FOWN_OWNER,ECON_ECOMICACTI);
      endif;
  endif;

  if scope = 2 and tocc in 10:52,61:64 then
    if TFA_FLRAREA = 0 then
       test_prt();
       write("    Verify scope of work & occupancy, flr area = %d     Scope=%d, Occupancy=%d",TFA_FLRAREA,scope,tocc);
    endif;

    if TFA_FLRAREA > 19 then
       if NS_STOREYS = 0 then
          test_prt();
          write("    Number of storey should be > 0                 Storey=%d, Floor area=%d, Scope=%d",NS_STOREYS,TFA_FLRAREA,scope);
       endif;
     endif;

    if cob_costbldg = 0 then
       test_prt();
       write("    Cost of Bldg should be > 0                        Cost of Bldg=%d, Scope of work=%d",cob_costbldg,scope);
    endif;

  endif;

  if tocc in 60,71,72,73,74,75 then
    if NS_STOREYS > 0 then
       test_prt();
       write("    Verify no. of storey, Occupancy = %d,              Storey=%d",tocc,NS_STOREYS);
    endif;

    if tfa_flrarea > 0 then
       test_prt();
       write("    Verify occupancy, Flr Area = %d                   TOCC=%d", tfa_flrarea, tocc);
    endif;

    if oc_costothr = 0 then
       test_prt();
       write("    Other cost should be > 0                          Other cost=%d, Occupancy=%d",oc_costothr,tocc);
    endif;

  endif;


if scope in 5 and  cob_costbldg > 0 then
       test_prt();
       write("    Cost of Bldg should be 0                          Cost of Bldg=%d, Scope of work=%d",cob_costbldg,scope);
    endif;

 if scope in 3,4,5,6,7 then
    {if oc_costothr = 0 then
       test_prt();
       write("    Other cost should be > 0                          Other cost=%d, Scope=%d",oc_costothr,scope);
    endif;}
```

```
if NS_STOREYS = 0 then
    else
        test_prt();
        write("    Verify no. of storey, Scope=%d                        Storey=%d  ",scope,NS_STOREYS);
    endif;

    if tfa_flrarea > 0 then
        test_prt();
        write("    Verify scope of work, Floor Area = %d              Scope=%d",tfa_flrarea, scope);
    endif;

endif;

  if units > 1 and tocc in 10:15 and scope = 1 then
    if ($ / units) < 20 then
        test_prt();
        write("    Verify average floor area per unit                  Units=%d, Floor area=%d, Occupancy==%d, Ave flr area per unit=%d",units,$,tocc,($/units));
    endif;
  endif;

  if units > 1 and tocc in 20:52,61:64 and scope = 1 then
    if ($ / units) < 4 then
        test_prt();
        write("    Verify average floor area per unit                  Units=%d, Floor area=%d, Occupancy==%d, Ave flr area per unit=%d",units,$,tocc,($/units));
    endif;
  endif;

  if NS_STOREYS > 1 and tocc in 10:15 and scope = 1 then
    if ($ / NS_STOREYS) < 12 then
        test_prt();
        write("    Verify Storey, Ave floor area/storey < 12          Storey=%d, Floor area=%d, Ave flr area per storey=%d, TOCC=%d",NS_STOREYS,$,($/NS_STOREYS),tocc);
    endif;
  endif;

  if NS_STOREYS > 1 and tocc in 20:52,61:64 and scope = 1 then
    if ($ / NS_STOREYS) < 4 then
        test_prt();
        write("    Verify Storey, Ave floor area/storey < 4           Storey=%d, Floor area=%d, Ave flr area per storey=%d,TOCC=%d",NS_STOREYS,$,($/NS_STOREYS),tocc);
    endif;
  endif;
if units > 0 and ns_storeys = 1 and scope in 1 and TFA_FLRAREA > 0 and tocc in 10:14, 21,25, 27:52,61:64 then
    if (TFA_FLRAREA / units / ns_storeys) < 10 then
        test_prt();
        write("    Floor area per storey is less than 10 sqm.         FA/storey=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and ns_storeys > 1 and scope in 1, 2 and TFA_FLRAREA > 0 and tocc in 10:14 then
    if (TFA_FLRAREA / units / ns_storeys) < 10 then
        test_prt();
        write("    Floor area per storey is less than 10 sqm.         FA/storey=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;
if units > 0 and ns_storeys > 1 and scope in 1, 2 and TFA_FLRAREA > 0 and tocc in 15 then
    if (TFA_FLRAREA / units / ns_storeys) < 200 then
        test_prt();
        write("    Floor area/storey/unit is less than 100 sqm.        FA/storey/unit=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and ns_storeys = 1 and scope in 1 and TFA_FLRAREA > 0 and tocc in 20, 22, 24, 26 then
```

```
    if (TFA_FLRAREA / units / ns_storeys) < 4 then
        test_prt();
        write("   Floor area/storey/unit is less than 4 sqm.         FA/storey/unit=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and ns_storeys = 1 and scope in 1 and TFA_FLRAREA > 0 and tocc in 23 then
    if (TFA_FLRAREA / units / ns_storeys) < 50 then
        test_prt();
        write("   Floor area/storey/unit is less than 50 sqm.         FA/storey/unit=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and ns_storeys > 1 and scope in 1, 2 and TFA_FLRAREA > 0 and tocc in 23 then
    if (TFA_FLRAREA / units / ns_storeys) < 50 then
        test_prt();
        write("   Floor area/storey/unit is less than 50 sqm.         FA/storey/unit=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and ns_storeys > 1 and scope in 1, 2 and TFA_FLRAREA > 0 and tocc in 20:52, 61:64 then
    if (TFA_FLRAREA / units / ns_storeys) < 20 then
        test_prt();
        write("   Floor area/storey/unit is less than 20 sqm.         FA/storey/unit=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and ns_storeys > 0 and TFA_FLRAREA > 0 and tocc in 11 then
    if (TFA_FLRAREA / units / ns_storeys) > 1000 then
        test_prt();
        write("   Verify occupancy, FA/storey/unit > 1000 sqm.       FA/storey/unit=%d, Unit=%d, Storey=%d, FlrArea=%d, TOCC=%d",(TFA_FLRAREA/units/ns_storeys),units,ns_storeys, TFA_FLRAREA, tocc);
    endif;
endif;

if units > 0 and TFA_FLRAREA > 0 and scope= 1 and tocc in 15 then
    if ns_storeys < 5 then
        test_prt();
        write("   Verify Number of Storey, Occupancy=%d           Storey=%d, FlrArea=%d, Units=%d", TOCC, ns_storeys,TFA_FLRAREA,units);
    endif;
endif;

PROC PDC_PRODATE
{
  if $ < DATE_ISSUANCE then
    test_prt();
    write("   Verify,proposed date of construction             DATE_ISSUANCE = %06d",DATE_ISSUANCE);
    write("      earlier than date of issuance                 PDC_PRODATE   = %06d",PDC_PRODATE);
  endif;
}
PROC EDC_EXPDATE
  prod = concat(edit("99",p_yy),edit("99",p_mm),edit("99",p_dd));
  expd = concat(edit("99",e_yy),edit("99",e_mm),edit("99",e_dd));
  if tonumber(expd) < tonumber(prod) then
    test_prt();
    write("   Verify, expected date of completion              PDC_PRODATE=%d",PDC_PRODATE);
    write("      earlier than proposed date of cons            EDC_EXPDATE=%06d",EDC_EXPDATE);

  endif;
PROC MCON_CONSMAT
    if $ in "W","C","S","M","w","c","s","m" then
    else
        test_prt();
        write("   Invalid materials of construction            MCON_CONSMAT = %s",$);
```

```
        ENDIF;
PROC CONT_TYPE
  if not $ > 0 then
      test_prt();
      write("    Invalid Contractor type (Valid entries=1:3)         CONT_TYPE = %d",CONT_TYPE);
  endif;
```